

Kansas City PM Characterization Study

Final Report

Appendix JJ

Kansas City Rounds 1 and 2

Vehicle Information

Assessment and Standards Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Sponsors:

National Renewable Energy Laboratory, U.S. Department of Energy
Federal Highway Administration, U.S. Department of Transportation
STAPPA-ALAPCO Emission Inventory Improvement Program
Coordinating Research Council Inc. (Project No. E-69)

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United States
Environmental Protection
Agency

EPA420-R-08-009
April 2008

		PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											
		Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)		
Vehicle ID #	Date																		Comments	
Round 1																				
1	7/13/2004	Yes					84032		Chevrolet	Cavalier	2001	Silver	4	N	Y				Fuel Collected - could not get fuel sample	
2	8/9/2004			Yes			84154		Ford	F150	1979	Red	2	Y	Y	N				
3	7/13/2004	Yes							Dodge	RAM250	1994	Green	2						PEMS only, no dyne test	
4	7/13/2004	Yes					84034		Isuzu	Trooper	1999	Black	4							
5	7/13/2004	Yes					84035		GMC	Yukon XL	2001	Tan	4							
6	7/14/2004	Yes					84036		Ford	Escort LX	1995	Green	2	N	Y					
7	7/14/2004	Yes					84037		Ford	F-250	1979	Brown	2	Y	Y					
8	7/14/2004																		Reject all wheel drive	
9	7/14/2004	Yes							Toyota	RAV4	2000	Purple		N	Y				Rejected 4 wheel drive will not turn off	
10	7/15/2004	Yes					84040		Dodge	Spirit	1990	White	4		Y					
11	7/15/2004	Yes					84039		Ford	F-150 XLT	2001	Black	4	Y	Y				\$20.00 added to tank	
13	7/16/2004	Yes					84042		Honda	Civic	1996	Green	2	Y	Y					
15	7/16/2004	Yes					84043		Honda	Civic	1991	Green	2	Y	Y					
17	7/17/2004	Yes		Yes			84047		Mazda	626	2001	White	4	Y	Y					
18	7/17/2004	Yes					84048		Dodge	Caravan SE	1989	Gray	3	Y	Y					
19	7/19/2004								Jeep	Grand Cherokee	1999			N	N				Reject all wheel drive - no turn off/on button	
20	7/19/2004	Yes		Yes			84051		Chevrolet	Corsica	1996	Blue	4	Y	Y	N				
21	7/19/2004	Yes		Yes			84050		Honda	Civic Si	2002	White	2	Y	Y	N				
22	7/19/2004	Yes		Yes			84054		GMC	Jimmy	1995	White	4	N	Y	N				
23	7/19/2004	Yes		Yes			84052		Oldsmobile	Cutlass Ciera	1988	Dark Red	4	Y	Y	N				
24	7/19/2004	Yes		Yes			84055		Jeep	Cherokee Sport	1998	Dark Red	4	Y	Y	L				
25	7/20/2004	Yes		Yes			84061		Chevrolet	Cavalier	1990	White	4	Y	Y	L				
26	7/19/2004	Yes		Yes			84058		Chrysler	300	1999	Red	4	Y	N	N				
27	7/20/2004	Yes		Yes			84057		GM	Saturn	2001	Blue	4	Y	Y	N				
28	7/20/2004	Yes	Yes	Yes	Yes		84060	84062	Buick	LeSabre	1998	Green	4	N	Y	N				
30	7/20/2004	Yes		Yes			84056		Nissan	Frontier	2002	Gray	4	Y	Y	N				
31	7/23/2004	Yes		Yes			84074		Nissan	Pickup	1987	Red		Y	Y	L				
32	7/21/2004	Yes		Yes			84063		GM-Saturn	Saturn	1996	Purple	2	Y	Y	N				
33	7/21/2004	Yes		Yes			84067		Dodge	Caravan	1995	Blue	3	Y	Y	L				
34																			Rejected all wheel drive	
35	7/21/2004	Yes		Yes			84064		Mercury	Villager LS	1994	Green	3	N	Y	N				
36	7/21/2004	Yes		Yes		Yes	84066		Jeep	Wrangler	1995	Green	2	Y	Y	N				
37	7/22/2004	Yes		Yes			84071		GM	Pontiac Grand Am	1989	Grey	2	N	Y	N				
38	7/23/2004								Lincoln	Continental	1989	Brown	4						Envelope says too low idle, precat exhaust leak, untestable	
40	7/22/2004	Yes		Yes			84068		Toyota	Solara SLE	2001	Silver	2	N	Y	N	N			
41	7/22/2004	Yes		Yes			84069		Dodge	Grand Caravan Sport	1997	Teal	4	Y	Y	N				
43	7/23/2004	Yes		Yes			84073		Chevrolet	Blazer	1995	Green	3	N	Y	N				
44	7/23/2004	Yes		Yes			84072		Chevrolet	S-10	2003	Red	2	Y	Y	N				
46	7/23/2004	Yes		Yes			84076		Ford	Mustang	1968	Green	2	Y	Y	N				
49	7/26/2004	Yes							Lincoln	Towncar	1990	White	4	N	N		N		PEMS only	
50	7/24/2004	Yes		Yes			84077		Honda	Civic EX	1999	Green	2	N	Y	N	N			
51	7/24/2004	Yes		Yes			84078		Honda	Accord	1997	Green	4	Y	Y	N	N			
52	7/24/2004	Yes		Yes			84079		Honda	Accord LX	1989	Gold	4	N	Y	L	N			
56	7/26/2004	Yes		Yes			84083		Honda	Accord EX	2000	White	4	N	Y	N	N			
57	7/26/2004	Yes		Yes			84082		Ford	Taurus SES	2003	Gray	4	Y	Y	N				
58	7/26/2004	Yes		Yes			84084		Chevrolet	Malibu LS	1998	Maroon	4	N	Y	N	N			
61	7/27/2004	Yes		Yes			84086		Honda	Odyssey	2004	Grey	5	N	Y	N				
62	7/27/2004	Yes							Nissan	Pathfinder LE	2003	Silver	4	Y	Y				PEMS only	
63	7/27/2004	Yes		Yes			84088		Chevrolet	Lumina	1998	Maroon	4	N	Y	N				
64	7/27/2004	Yes		Yes			84090		Ford	Mustang	1999	Blue	2	Y	Y	N				
65	7/27/2004	Yes		Yes			84087		Hyundai	Tiburon	2000	Blue	2	Y	Y	N	N			
66	7/27/2004	Yes		Yes			84091		Cadillac	Seville	1991	Silver	4	Y	Y	N				

		PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											
Vehicle ID #	Date	Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	Comments	
Round 1																				
67	7/28/2004	Yes		Yes			84092		Saturn	SL1	1999	Blue	4	Y	Y	N				
68	7/28/2004	Yes		Yes			84094		Ford	Explorer	1993	White	5	Y	Y	N	N			
69	7/28/2004	Yes		Yes			84096		Isuzu	Rodeo SL	1999	Red	5	Y	Y	N				
71	7/28/2004	Yes							Toyota	RAV4	2000	Black	5	N	N		N		PEMS only	
72	7/28/2004	Yes		Yes			84093		Nissan	Sentra GXE	1997	Black	4	N	Y	N				
73	7/29/2004	Yes		Yes			84098		Ford	Ranger	1999	Gold	2	N	Y	N				
74	7/29/2004	Yes		Yes			84097		Mercury	Sable LS	2002	Gray	4	Y	Y	N				
75	7/29/2004	Yes		Yes			84101		Toyota	Camry	1994	Green	4	Y	Y	N	N			
76	8/2/2004	Yes	Yes	Yes			84120	84123	Honda	Civic	1984	Grey	2			N				
77	7/29/2004	Yes		Yes			84099		Toyota	Avalon	1999	Beige	4	N	Y	N				
78	7/30/2004	Yes		Yes			84108		Honda	Civic DX	1991	Red	4	N	Y	N				
80	8/2/2004	Yes		Yes			84119		Jeep	Grand Cherokee	1995	White	4	N	Y	N				
81	8/2/2004	Yes							Dodge	Ram LE	1991	Silver	6						PEMS only too long for dyne	
82	7/30/2004	Yes		Yes			84105		Toyota	Corolla	1997	Green	4	Y	Y	N				
83	7/30/2004	Yes		Yes			84103		Nissan	Maxima	2000	White	4	Y	Y	N	N			
84	7/29/2004	Yes		Yes			84102		Honda	Civic	1999	Black	2	N	Y	N	N			
85	7/31/2004	Yes							Ford	F-150	1995	Green	2				N		PEMS only, too long for dyne	
86	7/31/2004	Yes		Yes	Yes		84110	84115	Ford	Contour	1995	Green	4	N	Y	N				
88	7/31/2004	Yes		Yes	Yes		84111	84116	Chevy	S-10	1996	Green	2	N	Y		N			
90	7/31/2004	Yes		Yes			84113		Pontiac	Grand Prix	1993	Gold	4	N	Y	N				
92	8/3/2004	Yes							Ford	Explorer	2000	Navy Blue	5	Y	Y	N			PEMS only, AWD	
93	8/2/2004	Yes							Chevrolet	Silverado	2002	Gray	4	N	N				PEM only too long for dyne	
94	7/30/2004	Yes	Yes	Yes	Yes		84104	84109	Plymouth	Voyager	1998	Gold	5	N	Y	N				
95	7/30/2004	Yes		Yes		Yes	84107		Buick	LeSabre	1989	Blue	4	N	Y	N				
96	7/29/2004	Yes				Yes			Subaru	Outback Legacy	1996	Green	5	N	N		N		PEMS only	
97	8/3/2004	Yes		Yes		Yes	84126		Ford	Thunderbird	1988	Silver	2	Y	N	N				
98	8/3/2004	Yes		Yes			84125		Ford	Explorer XLT	1995	Black	5	N	Y	N				
99	8/3/2004	Yes		Yes			84121		Volvo	S80	2001	Silver	4	Y	Y	N				
100	8/11/2004	Yes		Yes			84165		Mazda	Protégé	1991	Burgundy	4	N	Y	N				
102	8/3/2004	Yes		Yes			84122		Dodge	Grand Caravan SE	1999	Green	5	Y	Y	N				
103	8/4/2004	Yes		Yes			84127		Chrysler	Town & Country	2000	Tan	4	Y	Y	N				
104	8/4/2004	Yes		Yes			84129		Toyota	Celica	1999	Red	2	Y	Y	N				
105	8/6/2004	Yes	Yes	Yes	Yes		84132	84137	Jeep	Cherokee Sport	1993	Green	4	Y	Y	N				
107	8/4/2004	Yes		Yes			84128		Toyota	Camry LE	2000	Tan	4	Y	Y	N				
108	8/4/2004	Yes		Yes			84131		Chevrolet	Cavalier	1997	Green	4	Y	Y	N				
109	8/5/2004	Yes		Yes			84134		Mercury	Grand Marquis GS	1997	Green	4	Y	Y	N				
110	8/5/2004			Yes			84133		Buick	Century Limited	1998	Red	4	Y	Y	N				
112	8/5/2004	Yes		Yes			84135		Ford	Probe	1993	Red	2	N	Y	N				
113	8/5/2004	Yes		Yes			84138		Ford	Bronco	1995	Red	2	Y	Y	N				
114	8/5/2004	Yes							Chrysler	Concord	2000	Blue	4	N	Y				PEMS only - engine rebuilt approx. 3,000 miles	
116	8/6/2004	Yes		Yes			84139		Ford	Escort ZX2	1999	Black	2	Y	Y	N				
117	8/6/2004	Yes		Yes			84140		Chevrolet	Blazer LS	2002	White	2	Y	Y	N				
118	8/6/2004	Yes							Lincoln	Towncar	1987	Black	4						PEMS only vehicle would not go into third gear. Transmission was slipping.	
120	8/6/2004	Yes		Yes			84141		Honda	Accord	1990	Tan	4	Y	Y	N				
121	8/7/2004	Yes		Yes			84148		Dodge	Dynasty	1988	Gray	4	Y	Y	N				
123	8/6/2004	Yes		Yes			84145		Jeep	Cherokee	1990	White	4			N				
124	8/9/2004	Yes		Yes		Yes	84149		Ford	Escort	2002	Red	4	N	Y	N				
126	8/7/2004	Yes		Yes			84144		Plymouth	Voyager	1993	Green	3	N	Y	N				

Vehicle ID #	Date	PEMS Testing Summary						Dyne Summary		General Vehicle Info (ERG)										MILL Note (If MILL during test=Y)	Comments
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Round 1																					
127	8/9/2004	Yes		Yes			84150		Honda	Odyssey	2000	Green	4	N	Y	N					
128	8/9/2004	Yes		Yes	Yes		84151	84156	Honda	Accord	2000	Red	4	N	Y	N					
129	8/9/2004	Yes		Yes			84153		Ford	F150	2000	Blue	2	Y	Y	N					
132	8/7/2004	Yes		Yes			84146		Ford	Ranger XLT	1988	Blue	2	Y	Y	L					
133	8/10/2004	Yes							Honda	Accord LX	2001	Blue	4	N	Y						
134	8/10/2004	Yes		Yes		Yes	84157		Nissan	Sentra	1994	Blue	4	N	Y	N					
136	8/10/2004	Yes							Kia	Sportage	2003	Black	4								
138	8/10/2004	Yes		Yes		Yes	84162		Chrysler	LeBaron	1983	Burgundy	4	Y	Y	N					
139	8/11/2004	Yes		Yes			84161		Volvo	850	1997	Green	4	Y	Y	N					
140	8/11/2004	Yes	Yes	Yes			84166	84169	Mercury	Topaz GS	1994	White	4	N	Y	N					
141	8/11/2004	Yes		Yes			84160		Ford	Focus SE	2001	Green	4	N	Y	N					
142	8/11/2004	Yes		Yes			84164		Plymouth	Voyager	1999	Purple	4	Y	Y	N					
147	8/12/2004	Yes		Yes			84171		Honda	Civic DX	1988	Burgundy	4	N	Y	N					
148	8/12/2004	Yes		Yes			84168		Buick	Regal	1996	Gray	4	Y	Y	N					
149	8/12/2004	Yes	Yes			Yes	84172		Cadillac	Cimmaron	1986	Gray	4	Y	Y	N					
150	8/12/2004	Yes		Yes			84167		Ford	Ranger	1999	Green	2	N	Y	N					
151	8/14/2004	Yes		Yes	Yes		84175	84180	Pontiac	Bonneville	1988	Navy Blue	4	Y	Y	L					
152	8/13/2004	Yes		Yes			84174		Mercury	Topaz	1994	Blue	4	N	Y	N					
153	8/13/2004	Yes		Yes			84173		Mercury	Sable	1996	Red	4	Y	Y	N					
154	8/14/2004	Yes		Yes			84179		Jeep	Cherokee	1998	Black	4	Y	Y	N					
159	8/14/2004	Yes					84182		Ford	Thunderbird LX	1995	Red	2	N	Y	N					
160	8/14/2004	Yes		Yes			84178		Toyota	Camry	1997	White	4	N	Y	N					
164	8/16/2004	Yes		Yes			84185		Toyota	Corolla	1996	Green	4	Y	Y	N					
165	8/16/2004	Yes		Yes			84184		Honda	Civic	2000	Gray	4	N	Y	N					
166	8/18/2004	Yes		Yes			84191		Toyota	Camry	2000	Tan	4	N	Y	N					
167	8/16/2004	Yes		Yes			84183		Toyota	Corolla	2000	White	4	N	Y	N					
169	8/17/2004	Yes		Yes			84189		Ford	F150	1984	Black	2	Y	Y	L					
171	8/17/2004	Yes							Subaru	Outback	2000	Green	4	N	N				PEMS only all wheel drive		
173	8/17/2004	Yes		Yes			84188		Chevy	Monte Carlo	1977	Red	2	Y	Y						
175	8/18/2004	Yes		Yes			84193		Hyundai	Santa Fe	2001	Burgundy	4	N	Y	N			Please see enclosed receipts on EGR valve		
176	8/18/2004								Mazda	Miata MX-5	2003	Red	2	Y	Y						
178	8/18/2004	Yes		Yes			84195		Chevy	Lumina	1999	Gold	4	Y	Y	N					
179	8/18/2004	Yes		Yes			84196		GMC	Safari	1993	White	2	Y	Y	N					
180	8/18/2004	Yes		Yes			84192		GMC	Sonoma SLS	2001	Red	2	N	Y	N			2 ERG packets enclosed, entered data from packet		
181	8/19/2004	Yes		Yes	Yes		84198	84200	Saturn	SL1	1994	Lavendar	4	Y	Y	N					
182	8/19/2004	Yes		Yes			84197		Buick	Regal	1990	Red	2	N	Y	N					
187	8/20/2004	Yes							Chevrolet	Astro Van	1991	Blue	2	N	N				PEMS only all wheel drive		
188	8/20/2004	Yes		Yes					Chevy	Caprice Classic	1986	Silver	4	Y	Y	L					
189	8/20/2004	Yes		Yes			84201		Chevy	S-10 Truck	1985	Blue	2	Y	Y	L					
193	8/21/2004	Yes							Ford	Econoline	1983	Gray	2	Y	Y				PEMS only too wide for dyne		
194	8/21/2004	Yes		Yes			84208		Lincoln	Towncar	1989	White	4	Y	Y	N					
195	8/21/2004	Yes		Yes			84205		Ford	F150 Truck	1998	Beige	2	N	Y	N					
196	8/21/2004	Yes		Yes			84204		Ford	Windstar	1999	Burgundy	4	N	Y	N			Please note engine light comes on when you turn key. Participant knows this. Kerri called.		
197	8/21/2004	Yes		Yes			84206		Chevrolet	C 1500	1994	Red	2	N	Y	N					
199	8/23/2004	Yes		Yes			84209		Dodge	Stratus ES	1996	Black	2	N	Y	N			Third vehicle w/same plate (same as 181 & 236)		
200	8/23/2004	Yes		Yes		Yes	84211		Ford	Tempo	1986	Gray	4	N	Y	N					
201	8/23/2004	Yes		Yes			84210		Mazda	MX-6	1988	Gray	2	N	Y	N					
203	8/23/2004	Yes		Yes		Yes	84213		Oldsmobile	Ninety Eight Regency	1985	White	4	Y	Y	N					
204	8/23/2004	Yes							Lincoln	Towncar	1987	Gold	4	N	N				PEMS only too wide for dyne		
1012	8/24/2004	Yes	Yes	Yes		Yes	84215		Nissan	Maxima	1992	Blue	4	N	Y	N					
207	8/25/2004	Yes		Yes			84214		Pontiac	Bonneville	1994	Blue	4	N	Y	N					
208	8/25/2004	Yes					84216		Ford	F150	1990	White	2	Y	Y				Dyno Semtech - Semtech shutdown/locked up before test. No time to fix problem.		

Vehicle ID #	Date	PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)										Comments
		Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	
Round 1																			
210	8/26/2004	Yes		Yes		Yes	84224		Ford	Taurus	2002	Silver	4	N	Y	N			Dway file blank, no data
212	8/25/2004	Yes		Yes			84219		Chrysler	Concord	1994	Teal	4	N	Y	N			File name corrupted
213	8/27/2004	Yes		Yes			84231		Oldsmobile	Eighty-Eight	1994	Plum	4	N	Y	N			
214	8/26/2004	Yes							Chevrolet	C10 (Truck)	1973	Yellow	2	N	N				PEMS only
215	8/26/2004	Yes		Yes			84221		Ford	Crown Victoria	1985	Light Gray	4	Y	Y	N			
216	8/25/2004	Yes		Yes			84220		Ford	Escort	1992	Red	4	N	Y	N			
219	8/26/2004	Yes		Yes			84225		Honda	Civic	2000	Beige	4	Y	Y	N			
221	8/26/2004	Yes		Yes			84227		Buick	Century	1997	Blue	4	Y	Y	N			
222	8/26/2004	Yes		Yes			84228		Pontiac	Grand Am	1992	Red	4	N	Y	N			Originally listed as dway, but none performed
223	8/26/2004	Yes		Yes			84223		Dodge	Grand Caravan	2005	Gray	4	N	Y	N			
225	8/27/2004	Yes		Yes			84233		Toyota	Corolla	1989	White	4	Y	Y	N			
226	8/27/2004	Yes		Yes			84230		Nissan	Sentra	1993	Red	2	N	Y	N			
228	8/27/2004	Yes		Yes			84229		Oldsmobile	Silhouette	2000	White	4	N	Y	N			Added oil (2 qts.)
232	8/28/2004	Yes		Yes			84234		Volkswag	Cabriolet	1991	Dark Blue	2	Y	Y	N			
233	8/28/2004	Yes		Yes			84239		Ford	Taurus	1987	Lt Blue	4	N	Y	N			
234	8/28/2004	Yes							Ford	F150 4x2	1987	Gray	2						PEMS only
235	8/28/2004	Yes		Yes			84238		Pontiac	6000	1988	White	4	N	Y	N			
236	8/28/2004	Yes		Yes			84236		Oldsmobile	Achieva	1992	Green	4	N	Y	N			Third vehicle w/same plate (same as 181 & 199)
237	8/28/2004	Yes		Yes			84235		Geo	Prism	1990	Blue	4	Y	Y	N			Originally listed as dway, but none performed
239	8/30/2004	Yes		Yes			84244		Ford	Escort	1993	Burgundy	4	N	Y	N			
240	8/30/2004	Yes		Yes			84241		Ford	Contour	1998	Lt Blue	4	N	Y	N			
241	8/30/2004	Yes							Cadillac	Sedan de Ville	1993	Red	4	N	Y				
243	8/30/2004	Yes		Yes			84245		Honda	Accord	1987	Dirty Silver	2	N	Y	N			
244	8/30/2004	Yes		Yes			84240		Infiniti	I30	1998	Gold	4	N	Y	N			
245	8/30/2004	Yes		Yes			84242		Plymouth	Voyager	1997	Blue	4	N	Y	N			
246	8/31/2004	Yes		Yes			84246		Eagle	Talon	1994	Green		Y	Y	N			
247	8/31/2004	Yes		Yes			84248		Ford	Ranger	1987	Blue	2	Y	Y	N			Fixing brakes - 2 pm pick up 9/2
248	8/31/2004	Yes		Yes			84257		Volvo	240 GL	1983	Silver	4	Y	Y	N			
249	8/31/2004	Yes		Yes			84256		Chevy	S-10	1989	Blue	2	Y	Y	N			Keeping extra day - pick up 9/2
250	8/31/2004	Yes		Yes			84250		Ford	Escort	1987	Gray	4	Y	Y	N			New windshield from Buckner's
253	9/1/2004	Yes		Yes			84254		Buick	Regal	1992	Blue	4	N	Y	N			
254	9/1/2004	Yes		Yes		Yes	84253		Mercury	Sable	1997	Gray	4	Y	Y	N			
255	9/1/2004	Yes		Yes			84252		Ford	Taurus	2001	Gray	4	Y	Y	N			
259	9/1/2004	Yes							Plymouth	Acclaim	1990	Blue	4	N	N				PEMS only, exhaust leak
282	9/8/2004	Yes		Yes	Yes	Yes	84258	84262	Oldsmobile	Delta 88	1991	White	4	N	Y	N			
290	9/8/2004			Yes			84263		Dodge	Ram 50	1989	Red	2	Y	Y	N			
293	9/8/2004	Yes		Yes			84261		Toyota	Camry	1989	Blue	4	Y	Y	N			
294	9/8/2004	Yes		Yes			84265		Buick	Century	1984	Lt Brown	4	N	Y	N			
297	9/9/2004	Yes		Yes			84266		Kia	Sephia	2000	Gold	4	Y	Y	N			
298	9/9/2004	Yes		Yes			84267		Chevy	Cavalier	1989	Gray	2	N	Y	N			
299	9/9/2004	Yes		Yes			84271		Buick	LeSabre	1979	Lt. Tan	4	Y	Y	N			
300	9/9/2004	Yes		Yes			84268		Ford	F150	1994	White	2	Y	Y	N			
301	9/9/2004	Yes		Yes			84270		Mercury	Grand Marquis	1986	White	4	Y	Y	N			
302	9/10/2004	Yes		Yes			84276		Buick	Electra Park Ave	1989	Gold	4	N	Y	N			
304	9/10/2004	Yes		Yes			84274		Ford	Aspire	1995	Red	4	N	Y	N			

Vehicle ID #	Date	PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											MILL Note (If MILL during test=Y)	Comments
		Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)				
Round 1																					
305	9/10/2004	Yes		Yes			84272		Honda	Accord	2001	Blue	4	N	Y	N					
306	9/11/2004	Yes		Yes			84273		Jeep	Grand Cherokee	1995	Black	4	Y	Y	N			PEMS only		
307	9/10/2004	Yes		Yes			84278		GMC	Jimmy	1990	Red & White	2	N	Y	N					
308	9/10/2004	Yes					84277		MG	MG	1978	Brown	2	Y	Y	N					
309	9/13/2004	Yes		Yes			84286		Oldsmobile	Silhouette	1997	White	3	N	Y	N					
312	9/14/2004	Yes		Yes			84285		Honda	Civic	2000	Gray	2	N	Y						
314	9/13/2004	Yes		Yes			84287		GMC	Sierra	1995	Red	2	N	Y				THC @ startup approx. 7000 ppm		
315									Dodge	Pickup	1968								Rejected - Hazard on dyne, incapable of proper testing		
316	9/14/2004	Yes		Yes			84291		Honda	Civic	1997	Black	2	N	Y	N			THC 5,000		
317	9/13/2004	Yes		Yes		Yes	84289		Oldsmobile	Storm Cruiser Station Wagon	1984	Gold	4	Y	Y	L			THC reading over 10,000		
318	9/14/2004	Yes		Yes			84293		Volvo	GL	1984	Gray	4	N	Y	N					
319	9/14/2004	Yes		Yes			84295		Chevy	Caprice	1987	Blue	4	Y	Y	N					
321	9/14/2004	Yes							Dodge	Ram	1997	White	2	N	N				PEMS only too wide for dyne		
322	9/15/2004	Yes		Yes			84302		Ford	F150	1993	White	2	Y	Y	N					
323	9/14/2004	Yes		Yes			84301		Pontiac	Grand Prix	1989	Gray	2	N	Y	N					
324	9/14/2004	Yes		Yes			84300		Buick	LeSabre	1990	Silver		Y	Y	N			THC 4,000		
325	9/15/2004	Yes		Yes			84297		Dodge	Stratus	1996	Blue	4	N	Y	N					
326	9/14/2004	Yes		Yes			84292		Toyota	Camry	1997	White	4	N	Y	N					
327	9/15/2004	Yes		Yes			84298		Dodge	Durango	1999	Red	4	Y	Y	N					
328	9/15/2004	Yes		Yes			84296		Honda	Civic	1998	Black	4	N	Y	N					
329	9/15/2004	Yes		Yes			84304		Honda	Civic	2001	Gray	2	N	N	N					
330	9/16/2004	Yes		Yes			84307		Honda	Accord	1992	White	4	N	Y	N					
331	9/15/2004	Yes		Yes			84308	84312	Pontiac	Grand Am	1994	Green	2	N	N	N			THC 11,572 start up engine stall		
332	9/16/2004	Yes		Yes	Yes		84305		Chevrolet	Malibu	1999	Gray	4	N	Y				THC 9,000 start up		
333	9/16/2004	Yes		Yes			84303		Oldsmobile	Silhouette	2002	Tan	4	N	Y	N					
335	9/16/2004	Yes			Yes		84309		Mercedes	280 SE	1973	Gray	4	Y	Y	N					
336	9/16/2004	Yes							Chevy	G-20	1993	Blue	3	N	N				PEMS only too wide for dyne		
																			PEMS only too long for dyne, must go on long PEMS only route		
337	9/20/2004	Yes							Ford	F150	1997	Burgundy	2	Y	Y						
338	9/17/2004	Yes		Yes			84310		Chevy	Venture	2003	Silver	4	N	Y	N					
339	9/17/2004	Yes		Yes			84315		Plymouth	Voyager	1991	Blue	3	N	Y	N			THC 7,500 start up		
341	9/17/2004	Yes		Yes			84316		Dodge	Avenger	1996	Black	2	N	Y	N					
343	9/17/2004	Yes		Yes			84311		Toyota	Corolla	1989	Gray	2	Y	Y	N					
344	9/18/2004	Yes		Yes			84318		Nissan	Sentra	1997	Red	4	N	Y	N			THC 8,800 startup		
346	9/18/2004	Yes		Yes			84322		Toyota	Camry	1990	Gold	4	Y	N	N					
347	9/18/2004	Yes		Yes			84317		Nissan	Altima	2000	Green	4	Y	Y	N			THC 21.9 start up on 1,000 & 10,000		
348	9/17/2004	Yes		Yes			84314		Plymouth	Sundance	1989	Red	2	N	N	N			THC 7.9 - on start		
982	9/18/2004	Yes		Yes			84319		Toyota	Camry	1998	Gold	4	N	Y	N					
349	9/29/2004	Yes		Yes			84375		Ford	Windstar	2001	White	4	Y	N	N					
350	9/18/2004	Yes	Yes	Yes			84321	84328	Toyota	Avalon	1996	Tan	4	N	Y	N			THC 9,200 startup		
351	9/20/2004	Yes		Yes			84325		Nissan	Maxima	1997	Green	4	N	Y	N					
352	9/20/2004	Yes		Yes			84324		Toyota	Camry	1999	Gray	4	N	Y	N			THC 3200 on start		
354	9/20/2004	Yes		Yes			84327		Ford	Taurus	1998	LT. Blue	4	N	Y	N			THC 4,000 start up		
355	9/20/2004	Yes		Yes			84329		Jeep	Wrangler	1997	Red	2	Y	Y	N			THC 58,000 start up		
356	9/20/2004	Yes		Yes			84323		Kia	Rio	2004	White	4	Y	Y	N					
358	9/21/2004	Yes		Yes			84334		Chevrolet	Caprice-estate	1990	Gray	4	Y	Y	N					
359	9/21/2004	Yes		Yes			84335		Mercury	Grand Marquis	1988	White	4	Y	Y	N					

		PEMS Testing Summary					Dyne Summary		Page 1 General Vehicle Info (ERG)												
Vehicle ID #	Date	Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	Comments		
Round 1																					
360	9/20/2004	Yes		Yes			84336		Toyota	Pickup	1987	Blue	2	Y	Y	L			THC 15,000		
361	9/21/2004	Yes		Yes			84330		Chevy	Cavalier	2004	Black	4	N	Y	N			THC 2,200 start up		
363	9/21/2004	Yes	Yes	Yes			84332	84341	Pontiac	Grand Am SE	1997	Tan	4	N	Y	N			THC 13,000 start up		
364	9/21/2004	Yes	Yes	Yes			84331	84338	Saturn	Sedan	2001	White	4	N	Y	N					
367	9/22/2004	Yes		Yes			84339		Plymouth	Voyager	1999	Green	4	Y	Y	N			Added a quart and a half of oil		
368	9/22/2004	Yes		Yes			84342		Toyota	Camry	1994	Dark Green	4	Y	Y	N			THC 8,000 start up		
369	9/22/2004	Yes	Yes	Yes			84337		Ford	Ranger	2003	Tan	2	Y	Y	N					
372	9/23/2004	Yes		Yes			84343		Kia	Sedona	2004	Tan	4	N	Y	N			THC 9,800 start up		
373	9/23/2004	Yes		Yes			84347		Toyota	Corolla	1995	Green	4	Y	Y	N			Start THC ~ 3,300 ppm C		
374	9/23/2004	Yes		Yes			84344		Toyota	Sienna	2000	Tan	4	N	Y	N			THC 11,000 start up		
377	9/23/2004	Yes	Yes						Oldsmobile	Cutlass	1987	Gray	2	N	Y				Died on preconditioning route #2, never was on dyne, start THC 24,000 ppm		
379	9/24/2004	Yes		Yes			84345	84350	GM/Chevy	Lumina	1997	Red	4	N	Y	N			Check oil light came on after test, added 1/2 qt. oil, THC 11,400 start up		
381	9/24/2004	Yes	Yes	Yes			84351		Ford	Contour	1996	Tan	4	N	Y	N			Start THC ~ 5,900 ppm C		
383	9/24/2004	Yes	Yes	Yes			84354		Ford	F150	1989	Blue	2	Y	Y	N			Start THC ~ 10,000 ppm C		
384	9/24/2004	Yes		Yes			84353		Saturn	Wagon	1993	Red	4	Y	Y	N			THC 8,500 start up, Extended route for PEMS was ran		
385	9/24/2004	Yes		Yes			84349		Chevrolet	Tracker	2003	Burgundy	4	Y	Y	N			THC start up 11,000		
386	9/11/2004	Yes		Yes	Yes	Yes	84284		Chevrolet	Caprice Classic Wagon	1987	Blue	4	Y	Y	N			B000038 on drive away		
387	9/11/2004	Yes		Yes			84280		Ford	Escort	1999	Green	2	N	Y	N					
388	9/11/2004	Yes		Yes			84279		Toyota	Camry	2001	White	4	N	Y	N					
389	9/11/2004	Yes		Yes			84283		Dodge	Ram	1986	Red	2	Y	Y	N			Muffler on truck was broke		
390	9/11/2004	Yes		Yes	Yes		84281		Chevy	Suburban	1995	Tan	4	N	Y	N					
394	9/25/2004	Yes	Yes	Yes			84359		Toyota	Corolla	1992	Blue/Gray	4	N	Y	N			Start THC ~ 4,400 ppm C, Have to fix muffler in order to test		
395	9/25/2004	Yes		Yes			84356		Pontiac	Grand Am	1997	Dark Green	4	N	Y	N			THC 8,000 start up, Alignment is off		
398	9/25/2004	Yes		Yes			84357		Mercury	Tracer	1995	Red	4	N	Y	N			THC 4,000 start up, Screw/bolt has been replaced from exhaust to manifold and possibly coming loose again		
399	9/25/2004	Yes		Yes			84355		Chevrolet	Lumina	2001	Burgundy	4	Y	Y	N			Start THC ~ 5,000 ppm C, Added fuel		
416	9/27/2004	Yes		Yes			84362		Ford	Taurus SE	1998	Tan	4	N	Y	N			THC 8,300 start up		
417	9/27/2004	Yes		Yes			84363		Toyota	Corolla	1996	White	4	Y	Y	N			Start THC ~ 4,700 ppm C		
419	9/27/2004	Yes		Yes			84361		Nissan	Maxima	2002	Gray	4	Y	Y	N			Start THC ~ 5,000 ppm C		
420	9/27/2004	Yes	Yes	Yes			84367		Mercedes	Sel	1980	Brown	4	N	Y	N			THC 11,000		
421	9/27/2004	Yes		Yes			84365		Ford	Taurus	1993	Silver	4	N	Y	N			THC 5,500 start up		
424	9/28/2004	Yes	Yes	Yes			84373		Chevrolet	Astro	1990	Red		Y	Y	N			Start THC ~ 11,000 ppm C, To turn key ignition switch loose		
425	9/28/2004	Yes	Yes	Yes			84369		Volvo	850 Turbo	1996	Red	4	N	Y	N			THC 7,000 start up, Do not mess with radio, Rotors?, Check engine light is on		
426	9/28/2004	Yes		Yes			84372		Toyota	Camry	1994	Beige	4	N	Y	N			THC 11,000 start up		
427	9/28/2004	Yes		Yes			84368		Saturn	SL1	1997	Tan	4	N	Y	N			THC 4,000 start up		
428	9/28/2004	Yes		Yes			84370		Ford	Taurus	1995	Green	4	N	Y				Start THC ~ 9,700 ppm C		
429	9/27/2004	Yes	Yes	Yes			84366		Oldsmobile	Cutlass Wagon	1989	White	4	N	Y	N			Start THC ~ 9,800 ppm C, Leak in muffler?		
430	9/29/2004	Yes		Yes			84376		Honda	Odyssey	2000	Gray	4	N	Y	N			Start THC 9,700 ppm C, Check engine light, Vehicle License - Shown as VEM 439 and VEM 432		

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Round 1																				
432	9/29/2004	Yes		Yes			84380		Lincoln	Continental	1995	Green	4	Y	Y	N			Start THC ~ 5,500 ppm 1	
433	9/29/2004	Yes							Ford	F-150	1989	Red	2	N	N				PEMS only, Gas gauge does not work, Start THC = 9,000 ppm C	
434	9/29/2004	Yes		Yes			84381		Mercury	Marquis	1994	Blue		Y	Y	N			Start THC ~ 5,400 ppm C	
436	9/29/2004	Yes		Yes			84379		Pontiac	Grand Am GT	1998	Red	2	Y	Y	N			Start THC ~ 5,500 ppm C	
437	9/30/2004	Yes		Yes			84383		Toyota	Camry	1996	Gray	4	Y	Y	N				
438	9/30/2004	Yes							Chevrolet	Avalanche	2002	Tan	4	N	N				Start THC ~ 4,000 ppm C, PEMS only too long for dyne	
439	9/30/2004	Yes		Yes			84384		GEO	Prism	1996	Green	4	Y	Y				Missing gas cap	
440	9/30/2004	Yes							Ford	Bronco	1990	Green	2	N	N				PEMS only too wide for dyne	
441	9/29/2004	Yes		Yes			84377		Honda	Accord	1997	Red	4	Y	Y	N			THC 2,000	
442	9/30/2004	Yes		Yes			84386		Nissan	Maxima	1990	Burgundy	4	N	Y	N				
443	9/30/2004	Yes		Yes			84382		Volkswag	Cabrio	1999	Green	2	Y	Y	N			Start THC ~ 4,100 ppm C	
Round 2																				
530	1/11/2005	Yes		Yes			84396		Ford	Escort LX	1995	Green	2	N	Y	N			Flow meter J04-SE06; clean c	
531	1/11/2005	Yes		Yes			84397		Chevrolet	Silverado	1976	Yellow & W	2	N	Y	H			Flow meter K04-SE03; 3 qt of	
532	1/11/2005	Yes		Yes			84393		Chrysler	300M	1999	Burgundy	4	N	Y	N			Coolant temp 55.40 deg	
533	1/11/2005	Yes		Yes			84394		Honda	Odyssey	2000	Dark Greer	4	Y	Y	N			Clean oil, flow meter J04-SE0	
534	1/12/2005	Yes		Yes			84399		Honda	Accord	1997	Dark Greer	4	N	Y	N			Engine coolant 39.2 deg	
537	1/12/2005	Yes		Yes			84401		Plymouth	Voyager	1998	Gold	4	Y	Y	N			Oil clean, flow meter J04-SE0	
538	1/12/2005	Yes		Yes			84398		Honda	Accord	2001	Black	4	N	Y	N			Engine coolant 30.2 deg	
539	1/12/2005	Yes		Yes			84402		Honda	Civic	1991	Red	4	N	Y	N			Flow meter J04-SE05 (flow m	
540	1/13/2005	Yes					84406		Toyota	Corolla	1995	Turquoise	4	Y					Engine coolant 44.60 deg	
541	1/13/2005	Yes					84404		Dodge	Caravan	1997	Green	4	N	Y	N			Oil clean, J04-SE05, 18.8 mpg	
542	1/13/2005	Yes		Yes			84407		Pontiac	Grand AM	1989	Gray	2	N		N			Oil dirty, FM# J04-SE06, 19.0	
543	1/13/2005	Yes		Yes			84403		Dodge	Caravan	2000	White	2	N	Y	N			Oil clean, FM J04-SE05, 19.8	
544	1/14/2005	Yes					84408		Mercury	Sable	2002	Grey	4	N	Y				Engine coolant 28.4 deg	
545	1/14/2005	Yes		Yes			84413		Ford	F250	1979	Dark Brown	2	N	Y				9.628 mpg	
546	1/14/2005	Yes		Yes			84409		Chevrolet	Malibu	1999	Gray	4	N	Y				Oil clean, FM #J04-SE05	
547	1/14/2005	Yes		Yes			84412		Honda	Civic	1996	Dark Greer	2	N	Y				Oil dirty, FM #K04-SE03.	
548	1/14/2005	Yes		Yes			84411		Saturn		1996	Purple	2	N	Y				Oil clean, flow meter J04-SE0	
549	1/15/2005	Yes		Yes			84419		Chevrolet	Lumina	1998	Maroon	4	N	Y	N			Model - nothing recorded here	
550	1/15/2005	Yes		Yes			84418		Pontiac	Grand Am	1997	Gold	4	N	Y	N			Engine coolant 32 deg	
551	1/15/2005	Yes		Yes			84414		Chevrolet	Impala	2003	Silver	4	N	Y				Oil moderate, flow meter H04-	
552	1/15/2005	Yes		Yes			84415		Dodge	Durango	1999	Red	4	Y	Y	N			Oil clean.	
553	1/15/2005	Yes		Yes			84416		Honda	Civic	1998	Black	4	N	Y	N			Engine coolant 39.2 deg	
559	1/17/2005	Yes		Yes	Yes		84422		Jeep	Cherokee	1998	Burgundy	4	Y	Y				Engine coolant 32 deg	
555	1/17/2005	Yes		Yes			84425		Jeep	Grand Cherokee	1995	White	4	N	Y	N			Oil clean, flow meter #J04-SE	
556	1/16/2005	Yes		Yes			84420		Honda	Accord	2000	Red	4	Y	Y	N			Coolant temp 35.6 deg	
557	1/17/2005	Yes		Yes			84424		Ford	Explorer	1995	Black	4	Y	Y	N			Oil dirty, K04-SE03, mileage 8	
558	1/16/2005	Yes		Yes			84421		Saturn	LS1	2000	Gray	4	Y	Y	N			Flow meter J04-SE05, 25.0 m	
562	1/18/2005	Yes		Yes			84428		Chevy	Malibu	1998	Burgundy	4	N	Y	N		N	Engine coolant 37.4 deg	
563	1/18/2005	Yes		Yes			84430		Dodge	Spirit	1990	White	4	Y	Y	N			Flow meter J04-SE05, fuel econ	
564	1/18/2005	Yes		Yes			84426		Saturn	SC2	2001	Burgundy	4	Y	Y	N			Flow J04-SE06, oil dirty, milie	
565	1/18/2005	Yes		Yes			84427		Mitsubishi	Galant	2001	Cream	4	N	N	N			Engine coolant 44.6 deg	
566	1/18/2005	Yes		Yes			84431		Mercury	Grand Marquis Station W	1991	Burgundy	4	Y	Y	N			Flow J04-SE05, mileage 22.3	
567	1/18/2005	Yes	Yes	Yes			84433		Jeep	Wrangler	1997	Red	2	Y	Y	N		N	Oil clean, mileage 9.9	
568	1/19/2005	Yes		Yes			84437		Toyota	Camry	1994	Green	4	Y	N	N			Oil clean, flow K04-SE03, 9.1	
1013	1/19/2005	Yes	Yes		Yes		84442		Toyota	Camry	1994	Green	4	Y	N	N			Flow meter J04-SE05; oil clea	
569	1/19/2005	Yes		Yes			84436		Chevrolet	S-10	1995	White	2	Y	N	N			Oil medium; mpg 22.194, Dup	
570	1/19/2005	Yes		Yes			84432		Saturn	Sedan	1999	Burgundy	4	Y	N		N	Fuel economy 27.32; er	Oil medium; flow J04-SE06	

		PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											Page 1		
Vehicle ID #	Date	Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	Comments			
Round 1																						
571	1/18/2005	Yes		Yes			84434	84440	Buick	Park Avenue	1995	Blue	4	N	N	N			Oil dirty; flow meter K04-SE03			
572	1/20/2005	Yes							Chevy	Silverado	2002	Grey	2	Y					Oil clean; flow K04-SE03; mile			
574	1/20/2005	Yes		Yes			84438		Buick	Century	2001	Dark Blue	4	N	N	N			Oil clean; flow meter K04-SG6			
575	1/20/2005	Yes							Ford	F150	2001	White	4	Y	N				Oil clean; flow meter K04-SE0			
576	1/20/2005	Yes		Yes			84443		Geo	Prizm	1991	Burgundy	4	Y	N	N			FM J04-SE06; oil dirty; mileag			
577	1/19/2005	Yes		Yes			84439		Pontiac	Bonneville	1995	Green	4	Y	N				Oil medium; flow K04-SE03; n			
579	1/21/2005	Yes		Yes			84446		Toyota	Sienna	2000	Silver	4	Y	N		N		Oil clean; flow K04-SE03; mile			
580	1/21/2005	Yes		Yes			84448		Plymouth	Voyager	1999	Green	4	Y	N				Oil clean; flow meter K04-SE0			
581	1/21/2005	Yes		Yes			84445		Saturn	Sedan	2001	White	4	N	N				Oil dirty; flow J04-SE06; milea			
582	1/21/2005	Yes		Yes			84444		Chevrolet	Tracker	2003	Burgundy	4	Y	N	N			Oil dirty; flow J04-SE06; milea			
583	1/21/2005	Yes	Yes		Yes		84449	84451	Buick	Regal	1994	Purple	4	Y	N	N			Oil clean; flow K04-SE03; mile			
584	1/22/2005	Yes		Yes			84453		Nissan	Maxima	1995	Black	4	N	N	N	H		Oil dirty; flow J04-SE03; milea			
585	1/22/2005	Yes		Yes			84452		Ford	Taurus	1995	White	4	N	N	N			Oil medium; mileage 19.2			
586	1/22/2005	Yes		Yes			84456		Pontiac	Grand Prix Le	1993	Champagn	4	N	N	N			Oil dirty; flow J04-SE06; milea			
587	1/25/2005			Yes			84455		Ford	Mustang	1995	Crimson	Coupe Conv	Y	N	N			This vehicle was not PEMED.			
593	1/25/2005	Yes		Yes			84458		Ford	Aerostar	1993	Burgundy	2 + hatchba	Y	Y	L			Oil clean; flow K04-SE03; mpg			
594	1/25/2005	Yes		Yes			84462		Plymouth	Voyager	1989	Blue	2 + hatch	Y	Y	M			Oil dirty; flow K04-SE03; mpg			
595	1/26/2005	Yes		Yes			84467		Ford	Ranger	1988	Dark Blue	2	N	Y	M			Oil clean; F.M. #104-SE08; mp			
596	1/25/2005	Yes		Yes			84457		Ford	Crown Victoria	1995	Black	4	Y	Y	L			Oil clean; flow K04-SE03; mpg			
597	1/25/2005	Yes		Yes			84459		Ford	Aerostar	1992	Burgundy	4	N	N				Oil dirty; flow J04-SE06; mpg			
599	1/26/2005	Yes	Yes	Yes	Yes		84465	84468	Chevy	Lumina LS	1994	Light Blue	2 + hatch	N	Y	M			Oil dirty; flow I04-SE03; mpg 1			
600	1/26/2005	Yes		Yes			84463		Ford	Contour	1995	Green	4	Y	Y	N			Oil dirty; flow I04-SE08; mpg 2			
602	1/26/2005	Yes		Yes			84464		Dodge	Intrepid	1994	Burgundy	4	N	Y	L			Oil medium/dirty; flow K04-SE			
605	1/27/2005	Yes		Yes			84469		Dodge	Caravan	1989	Grey	2 + hatch	Y	Y	M			Oil dirty; mpg 21.389			
606	1/27/2005	Yes							Chevrolet	Silverado 1500	1996	Black	2	Y	Y				Oil medium; flow K04-SE03; n			
607	1/28/2005	Yes		Yes			84475		Ford	Tempo	1986	Gray	4	N	Y				Oil clean; 15.2 mpg; flow mete			
608	1/27/2005	Yes		Yes			84470		Mercedes	280 SE	1973	Silver	4	Y	Y	L			Oil medium; mpg 7.2; flow I04			
609	1/27/2005	Yes		Yes			84472		Chevrolet	Monte Carlo	1977	Red	2	Y	Y	M			Oil dirty; flow I04-SE03; mpg 1			
611	1/28/2005	Yes		Yes			84473		Ford	Explorer	1996	Blue	4	Y	Y				Oil dirty; flow meter K04-SE03			
612	1/28/2005	Yes		Yes			84477		Dodge	Ram	1989	Red	2	N	Y				Oil dirty; flow meter L04-SE13			
614	1/28/2005	Yes		Yes			84474		Honda	Civic	1988	Burgundy	4	N	Y				Flow meter L04-SE13; mpg 21			
616	1/29/2005	Yes							Jeep	Cherokee	1998	White	4 + hatch	Y	N				Oil clean; flow K04-SE04; mpg			
617	1/29/2005	Yes		Yes			84478	84483	Dodge	Neon	1996	Blue	4	N	Y	N			Oil clean; flow L04-SE13; mpg			
618	1/29/2005	Yes		Yes	Yes	Yes	84482	84484	Buick	Lasabre	1979	Yellow	4	Y	Y	M			Flow meter K04-SE03; oil dirty			
619	1/29/2005	Yes		Yes			84479		Dodge	Caravan	1996	Green	4 + hatch	Y	Y	N			Oil dirty; flow K04-SE03; mpg			
622	1/31/2005	Yes		Yes			84487		Mazda	B2200	1992	Green	2	Y	Y	N			Oil dirty; flow meter I04-SE08;			
623	1/31/2005	Yes	Yes	Yes	Yes		84485	84490	Cadillac	Fleetwood	1991	White	4	Y	Y	N			1/31/05 - flow meter I04-SE03			
624	1/31/2005	Yes							Ford	Ranger	1990	Grey	2	N	Y				Oil dirty; flow meter J04-SE06			
625	2/2/2005	Yes							Buick	Rainier	2004	White	4 + hatch	Y					Oil clean; flow K04-SE03; mpg			
626	2/1/2005	Yes		Yes			84489		Toyota	Truck	1987	Blue	2	Y	Y	L			Date - Actual test 2/2/05. Oil c			
627	2/1/2005	Yes	Yes	Yes			84488		Buick	Lesabre	1995	Dark Blue	4	N	Y	L			Oil dirty; FM# K04-SE03; mpg			
628	2/1/2005	Yes		Yes			84492		Chevy	C10 Silverado	1984	Tan	2	Y	Y	L			Oil dirty; flow meter K04-SE03			
631	2/2/2005	Yes		Yes			84494		Ford	Ranger XLT	1997	White	2 + hatch	Y	Y	N			Oil dirty; flow J04-SE06; mpg			
632	2/2/2005	Yes		Yes			84495		GMC	Sonoma	1996	Red	2	Y	Y	N			Oil medium; flow J04-SE06; r			
633	2/2/2005	Yes		Yes			84493		Ford	Freestar SEL	2004	Light Gree	4 + hatch	Y	Y	N			Oil medium; flow I04-SE03; m			
634	2/2/2005	Yes		Yes			84497		Toyota	4Runner SR5	1995	Black	4 + hatch	Y	Y	N			Oil clean; flow K04-SE03; mpg			
635	2/2/2005	Yes							Chevy	Suburban	1995	White	4	Y	Y				Oil clean; flow meter I04-SE0;			
638	2/3/2005	Yes		Yes			84498		Toyota	Sienna XLE	2001	Champagn	4 + hatch	Y	Y	N			Oil clean; flow K04-SE03; mpg			
639	2/3/2005	Yes		Yes			84499		Acura	Integra	1995	Dark Gree	2	N	Y	N			Oil clean; flow L04-SE13; mpg			
640	2/3/2005	Yes		Yes			84500		Nissan	Frontier	1998	White	2	Y	Y	N			Oil medium; flow I04-SE08; m			
641	2/3/2005	Yes		Yes			84502		Chrysler	Concord	1996	Burgundy	4	N	Y	N			Oil dirty; mileage 18.701; FM#			
642	2/4/2005	Yes		Yes			84503		Ford	Taurus	2002	Grey	4	N	Y	N			Oil clean; flow I04-SE03; mpg			
643	2/4/2005	Yes		Yes			84504		Chrysler	Concord LXI	2000	Silver	4	N	Y				Oil clean; flow K04-SE03; mpg			

		PEMS Testing Summary					Dyne Summary		Page 1 General Vehicle Info (ERG)											
Vehicle ID #	Date	Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	Comments	
Round 1																				
644	2/4/2005	Yes		Yes			84505		Dodge	Intrepid	1993	Brown/Gre	4	N	Y	N			Oil clean; flow I04-SE03; mpg	
645	2/4/2005	Yes							Ford	F150	1989	Tan/Brown	2	Y	Y				Oil dirty; mpg 11.0125; flow m	
646	2/5/2005	Yes		Yes			84509		Chevrolet	Astrovan	1992	White	2 + back	Y	Y	N			Oil medium; flow K04-SE03; n	
647	2/5/2005	Yes		Yes			84510		Chevy	Suburban	1994	White	4	Y	Y	N			Oil clean; flow I04-SE03; mpg	
648	2/5/2005	Yes							Ford	F150	2001	White	4	Y					Mpg 16.26; FM #I04-SE03. P	
649	2/5/2005	Yes		Yes			84508		Honda	Civic	1992	Dark Grey	4	Y	Y	N			Oil dirty; flow meter L04-SE13	
651	2/6/2005	Yes		Yes			84512		Chevy	Caprice	1982	Blue	4	Y	Y	H			Oil dirty; flow H04-SE08; mpg	
521	2/8/2005	Yes		Yes			84513		Mitsubishi	Montero	2003	Black	4	N	Y	L			Mpg 8.26; flow meter K04-SE	
984	2/7/2005	Yes		Yes			84515		Dodge	Stratus	1999	Beige	4	N	Y	N			Oil medium; flow K04-SE01; n	
653	2/7/2005	Yes		Yes			84514		Chrysler	Concorde	2002	Champagn	4	N	Y	N			Oil dirty; flow H04-SE08; mpg	
654	2/7/2005	Yes		Yes			84518		Buick	Skylark	1994	Red	4	N	Y				Oil clean; flow H04-SE08; mp	
655	2/8/2005	Yes					84525		Chevrolet	Astro Van	1993	Blue	2 + hatch	Y	Y				Oil dirty; flow H04-SE08; mpg	
656	2/8/2005	Yes		Yes			84519		Dodge	Caravan	1992	White	4	N	Y	N			Oil dirty; flow meter K04-SE03	
660	2/8/2005	Yes		Yes			84517		Dodge	Grand Caravan	1998	White	4	Y	Y	N			Oil clean; fm #H04-SE08; mpg	
661	2/9/2005	Yes		Yes			84526		Lincoln	Towncar	1991	Blue Navy	4	Y	Y	N			Oil dirty; flow I04-SE03; mpg r	
662	2/8/2005	Yes		Yes			84524		Isuzu	Pickup	1995	Red	2	Y	Y	N			Flow meter I04-SE08; oil clean	
663	2/8/2005	Yes		Yes			84520		Ford	Taurus	2001	Grey/Silver	4	N	Y	N			Oil medium; flow H04-SE08; r	
664	2/9/2005	Yes		Yes			84521		Honda	Accord	1997	White	4	N	Y	N			Oil medium; flow K04-SE01; n	
667	2/9/2005	Yes		Yes			84522		Chevy	C1500	1996	Red	2	Y	Y	N			Oil dirty; flow I04-SE03; mpg 1	
1014	2/9/2005	Yes		Yes			84528		Mercury	Grand Marquis	1994	Dark Blue	4	Y	Y	N			Oil moderate; FM #I04-SE03;	
668	2/9/2005	Yes		Yes			84527		Dodge	Ram PU	1995	Burgundy	2	Y	Y	N			Oil clean; flow H04-SE08; mp	
670	2/9/2005	Yes		Yes			84531		Geo	Tracker	1992	Yellow	2	Y	Y	N			Mpg 20.762; oil dirty	
671	2/9/2005	Yes		Yes			84529		Plymouth	Sundance	1992	Green	4	Y	Y	N			Oil dirty; flow K04-SE01; mpg	
674	2/10/2005	Yes							Honda	CRV	1998	Red	4	N	N				Oil clean; flow L04-SE13; mpg	
675	2/10/2005	Yes		Yes			84533		Chevy	Suburban	1999	Grey	4	Y	Y	N			Flow meter H04-SE08; oil dirty	
676	2/10/2005	Yes		Yes			84534		Subaru	Legacy Wagon	1993	Burgundy	4	N	Y	N			Oil medium; flow K04-SE01; n	
677	2/10/2005	Yes		Yes		Yes	84532		Pontiac	Montana	2003	White	4	N	Y	N			Oil clean; flow H04-SE08; mp	
679	2/11/2005	Yes		Yes			84538		Ford	Ranger	1998	Red	2	Y	Y	N			Oil clean; flow meter I04-SE03	
680	2/11/2005	Yes		Yes			84539		Chevy	Tahoe	1996	Burgundy	4	N	Y	N			Oil clean; flow I04-SE03; mpg	
681	2/11/2005	Yes	Yes	Yes	Yes		84541	84542	Dodge	Grand Caravan	1996	White	4	N	N	Y	N		Oil dirty; flow K04-SE01 (2 inc	
682	2/11/2005	Yes	Yes	Yes	Yes		84537	84543	Jeep	Cherokee Sport	2000	Gray	4	Y	Y	N			Oil clean; flow meter H04-SE0	
685	2/14/2005	Yes		Yes			84546		Dodge	Dakota	1999	Blue	2	Y	Y	N			Oil clean; mpg 17.098	
986	2/14/2005	Yes		Yes			84547		Toyota	Corolla	1995	Green	4	Y	Y	N			Oil dirty; flow meter K04-SE01	
985	2/14/2005	Yes		Yes			84548		Dodge	Intrepid	1995	Burgundy	4	N	Y	N			Oil dirty; flow H04-SE08; mpg	
689	2/14/2005	Yes		Yes		Yes	84560		Lincoln	Town Car	1988	Black	4	N	Y				Oil clean; flow H04-SE08; mp	
693	2/15/2005	Yes		Yes			84551		Isuzu	Axiom	2002	Beige	4	N	Y	N			Mpg 15.899; flow meter H04-3	
694	2/15/2005	Yes		Yes			84552		Olds	Silhouette	2002	Beige	4	N	Y				Oil clean; mpg 19.282; flow m	
695	2/15/2005	Yes		Yes			84554		Ford	F150	1992	White	2	Y	Y	N			Oil medium; flow I04-SE03; m	
696	2/15/2005	Yes					84553		Dodge	Durango RT	2002	Black	4	N	Y				Oil clean; flow H04-SE08; mpg	
698	2/16/2005	Yes		Yes		Yes	84556		Chrysler	Town & Country LX	2001	Silver	4	Y	Y	N			Oil dirty; flow H04-SE08; mpg	
700	2/16/2005	Yes		Yes			84557		Buick	Park Avenue	2000	Blue/Grey	4	Y	Y				Oil clean; flow H04-SE08; mp	
701	2/16/2005	Yes		Yes			84560		Dodge	Dakota	1998	Green	2	Y	Y	N			Oil medium; flow K04-SE01; n	
702	2/16/2005	Yes		Yes			84558		Chevy	S-10	2001	Black	2	N	Y	N			Oil clean; flow H04-SE08; mp	
703	2/16/2005	Yes		Yes		Yes	84561		Ford	Country Squire	1986	Brown & G	4	N	Y	M			Oil dirty; flow meter I04-SE03;	
704	2/17/2005	Yes		Yes			84567		Cadillac	Sedan Deville	1992	Blue	4	N	Y				Oil clean; flow meter H04-SEC	
705	2/17/2005	Yes		Yes		Yes	84562		Dodge	Dakota	2004	Grey	2	Y	Y	N			Oil medium; flow I04-SE03; m	
706	2/17/2005	Yes		Yes			84566		Honda	Odyssey	1995	Silver	4	N	Y	N			Oil dirty; flow L04-SE13; mpg	
707	2/17/2005	Yes		Yes			84564		Dodge	Grand Caravan	1998	Burgundy	4	Y	Y	N			Oil medium; flow H04-SE08; r	
709	2/17/2005	Yes		Yes			84563		Ford	Ranger	2002	White	4	N	Y	N			Oil clean; mpg 14.81; Flow me	
711	2/18/2005	Yes		Yes		Yes	84572		Mercury	Topaz	1994	White	4	N	Y	N			Oil dirty; flow K04-SE01. Mod	

Vehicle ID #	Date	PEMS Testing Summary					Dyne Summary		Page 1 General Vehicle Info (ERG)											MILL Note (if MILL during test=Y)	Comments
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Round 1																					
712	2/18/2005	Yes					84568		Ford	Ranger	1996	Black	2	Y	Y	N			Oil clean; flow K04-SE01; mpg		
713	2/18/2005	Yes		Yes			84569		Ford	Taurus	1995	Green	4	N	Y	N			Oil dirty; flow L04-SE13; mpg		
714	2/19/2005			Yes			84570		Chevrolet	S-10 Pick up	1994	Burgundy	2	N	Y	N			Dyned only vehicle. Give to R		
715	2/19/2005	Yes							Chevy	Silverado	1994	Blue	2	Y	Y				Oil clean; mpg 12.84; FM #H0		
716	2/19/2005	Yes		Yes			84574		Ford	Taurus	1993	Burgundy	4	N	Y	L			Oil dirty; mpg 21.35; flow meter		
718	2/19/2005	Yes		Yes			84573		Buick	Park Avenue	1993	Dark Blue	4	N	Y				Oil clean; mpg 17.01; FM #H0		
719	2/19/2005	Yes		Yes			84575		Chevrolet	Lumina	1994	Gray		N	Y				Oil dirty; flow meter I04-SE03;		
721	2/21/2005	Yes	Yes	Yes			84577		Ford	Windstar	1998	Dark Greer	3	Y	Y	N			Oil dirty; mpg 18.586; flow me		
722	3/11/2005	Yes		Yes		Yes	84645		Volvo	960	1993	Blue	4	N	Y	L			Oil clean; flow L04-SE13; mpg		
723	2/21/2005	Yes	Yes	Yes	Yes	Yes	84675	84681	Ford	Tempo	1993	Red	2	N	Y	N			Oil dirty; flow L04-SE13; mpg		
724	2/21/2005	Yes		Yes		Yes	84713		Chevrolet	Blazer	1996	Black	4	N	Y	L					
725	2/22/2005	Yes		Yes			84580		Chrysler	Town & Country	2002	Blue	4	Y	Y	N			Oil medium; flow H04-SE08; r		
726	2/22/2005	Yes				Yes	84730		Chevrolet	S-10 LS	1995	Black	2	Y	Y				Oil medium; flow meter H04-S		
727	2/22/2005	Yes		Yes			84582		BMW	528e	1988	Black	4	Y	Y	N			Oil dirty; flow L04-SE13; mpg		
728	2/22/2005	Yes		Yes			84581		Chevy	Corsica	1995	Red	4	Y	Y	N			Oil dirty; flow H04-SE08; mpg		
729	2/22/2005	Yes		Yes			84638		Chrysler	Town & Country	1996	White	4	N	Y	N			Oil clean; flow meter I04-SE03;		
730	2/23/2005	Yes				Yes			Ford	Ranger	1994	Green	2	Y	Y				Oil dirty; flow I04-SE03; mpg 2		
731	2/23/2005	Yes		Yes			84585		Ford	Escort	1993	Gray	4	N	Y	L			Oil clean; flow meter K04-SE0		
733	2/23/2005	Yes		Yes			84584		Nissan	Pickup XE	1995	Black	2	N	Y	L			Oil medium; flow K04-SE01; n		
734	2/23/2005	Yes				Yes	84734		Plymouth	Voyager	1993	Green	4	Y	Y				Oil medium; flow H04-SE08		
735	2/23/2005	Yes				Yes			Dodge	Caravan SE	1995	White	4	Y	Y				Oil dirty; flow L04-SE13; mpg		
736	2/25/2005	Yes		Yes			84587		Mercury	Villager	1997	Navy	4	Y	Y	N			Oil dirty; mpg 20.61; fm #H04-		
737	2/25/2004	Yes		Yes			84588		Buick	Lesabre	1978	White	4	Y	Y	M			Oil dirty; flow I04-SE03; mpg 7		
738	2/24/2005	Yes		Yes			84589		Saturn	SL 2	2001	Silver	4	Y	Y	N			Oil medium; flow I04-SE08; m		
739	2/24/2005	Yes		Yes		Yes	84688		Ford	Taurus	1993	Green	4	Y	Y	N					
740	2/24/2004	Yes							Ford	Escape	2002	Navy	4	Y	Y				Oil mildly dirty: Flow K04SE0		
743	2/26/2005	Yes		Yes			84592		Ford	LTD	1979	Dark Blue	2	N	Y	H			No Muffler. Need key to trunk,		
744	2/25/2005	Yes		Yes			84593		Honda	Accord EX	1998	Green	4	N	Y	H			Oil clean; flow J04-SE06; mpg		
745	2/25/2005	Yes				Yes			Ford	Econoline E 150	2001	Dark Blue	2	N	Y				Oil clean; flow I04-SE03; mpg		
747	2/25/2005	Yes		Yes			84591		Toyota	4 Runner	1993	Burgundy	4	N	Y	L			Oil clean; mpg 16.84; flow H0		
749	2/26/2005	Yes		Yes			84597		Pontiac	Sunbird	1994	White	4	N	Y				Oil dirty; mpg 10.20; flow L04-		
750	2/26/2005	Yes		Yes			84595		Ford	Escort SE	1998	White	4	N	Y	N			Oil medium; flow J04-SE06; r		
751	2/26/2005	Yes		Yes			84596		Ford	Taurus GL	1997	Blue	4	N	Y	N			Oil dirty; flow L04-SE13; mpg		
753	2/26/2005	Yes		Yes		Yes	84718	84722	Ford	Windstar	1998	Purple	2	Y	Y	L	Y	P1450/P0302	Oil dirty; fm #I04-SE03. Hit loc		
986	2/28/2005	Yes		Yes			84599		Toyota	Avalon	1998	Cream	4	N	Y	N			Oil clean; flow I04-SE03; mpg		
987	2/28/2005	Yes					84600		Ford	Explorer	1993	Black	4	N	N				Oil dirty; mpg 16.31; fm #H04-		
757	2/28/2005	Yes		Yes			84601		Buick	Regal	1979	Green	2	Y	Y	N			Oil dirty; flow H04-SE08; mpg		
759	2/28/2005	Yes				Yes			Jeep	Cherokee	1988	Gold	4	N	Y				Oil dirty; mpg 17.291; flow I04		
760	2/28/2005	Yes		Yes		Yes	84739		Mazda	Protégé	1998	Silver	4	Y	Y	L					
761	3/1/2005	Yes	Yes	Yes			84603		Datsun	210 Wagon	1979	Tan	4	N	Y	M			Oil dirty; flow J04-SE06; mpg		
764	3/1/2005	Yes		Yes		Yes	84733		Buick	Skylark	1998	Green	4	Y	Y	L			Oil dirty; flow I04-SE03; mpg 22.8		
766	3/1/2005	Yes				Yes			Jeep	Grand Cherokee	1993	Green	4	N	Y				Oil medium; flow H04-SE08; r		
767	3/2/2005	Yes		Yes			84605		Datsun	280Z	1977	Rust	2	N	Y	L			Oil dirty; flow L04-SE13; mpg		
769	3/2/2005	Yes				Yes			Honda	Civic	1999	Green	4	N	Y				Oil medium; flowmeter J04-SE		
770	3/3/2005	Yes		Yes		Yes	84611		Toyota	Camry	1989	Burgundy	4	N	Y	N			Oil medium; mpg 32.972; FM		
772	3/3/2005	Yes		Yes			84609		Buick	Regal	1978	Burgundy	2	Y	Y	M			Oil dirty; flow meter H04-SE06		
773	3/3/2005	Yes				Yes			Ford	E-150	1991	White	2	Y	Y				Flowmeter I04-SE03. PEMS 8		
774	3/4/2005	Yes	Yes	Yes		Yes	84608		Nissan	Quest	1996	Burgundy	4	N	Y	N			Oil clean; flow I04-SE03; mpg		
775	3/4/2005	Yes		Yes			84613		Oldsmobile	Delta 88	1990	White	4	N	Y				Oil dirty; flow I04-SE03; mpg 1		
776	3/4/2005	Yes		Yes	Yes		84627	84632	Ford	F-150	1987	Red	2	Y	Y				Oil clean; flow H04-SE08; mpg		
777	3/4/2005	Yes		Yes			84612		Ford	Ranger XLT	2000	Burgundy	2	N	Y				Oil medium; flow I04-SE03.		
778	3/4/2005	Yes							Ford	F-250	1989	Blue	2	Y	Y				Oil dirty; flow H04-SE08; mpg		
779	3/4/2005	Yes		Yes			84614		Oldsmobile	Delta 88	1978	Beige	4	Y	Y				Oil dirty; flow H04-SE08; mpg		

Vehicle ID #	Date	PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											Comments
		Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Obsvry (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)		
Round 1																				
780	3/5/2005	Yes		Yes			84617		Chevy	Suburban	1997	Blue	4	Y	Y	N			Oil clean; flow H04-SE08; mpg	
782	3/5/2005	Yes	Yes	Yes			84616		Plymouth	Voyager	1999	Burgundy	4	Y	Y	N			Oil clean; flowmeter H04-SE0;	
783	3/5/2005	Yes		Yes		Yes	84618		Plymouth	Voyager	1992	White	4	N	Y	L			Oil dirty; flow J04-SE06; mpg	
784	3/5/2005	Yes		Yes			84620		Ford	Ranger XLT	1992	Green	2	N	Y	L			Oil clean; flow L04-SE13; mpg	
785	3/4/2005	Yes		Yes			84621		Ford	Ranger	1992	Burgundy	2	N	Y				Oil dirty; flow meter L04-SE13	
786	3/7/2005	Yes				Yes			Ford	Econoline	1996	White	3	Y	Y				FM H04-SE08; oil dirty. PEMS	
787	3/7/2005	Yes							Volkswagc	Beetle	1973	Black	2	N	N				Oil dirty; fm #K04-SE01; mpg	
788	3/7/2005	Yes	Yes	Yes		Yes	84623		Plymouth	Acclaim	1989	Gray	4	Y	Y				Oil clean; flow meter #J04-SE	
789	3/7/2005	Yes		Yes			84626		Dodge	Ram Pickup	1987	Gray	2	Y	Y				Oil clean; flowmeter H04-SE0	
791	3/7/2005	Yes		Yes		Yes	84622		Toyota	Camry	1999	Pewter	4	N	Y				Oil dirty; mpg 22.29; flow mete	
792	3/8/2005	Yes		Yes		Yes	84628		Chevy	Trail Blazer	2002	White	4	Y	Y	N			Oil clean; flow K04-SE03; mpg	
795	3/9/2005	Yes		Yes		Yes	84635		Ford	Crown Victoria LTD	1989	Silver	4	Y	Y	M			Oil medium; flow H04-SE08; r	
796	3/8/2005	Yes		Yes			84630		Honda	Accord SEi	1989	Tan	4	N	Y	N			Oil dirty; flow J04-SE06; mpg	
797	3/8/2005	Yes		Yes			84629		Acura	2.5 TL	1996	White	4	N	Y	N			Oil dirty; flow K04-SE03; mpg	
799										Econoline	1986								No tests done. No PEMS don	
453	4/4/2005	Yes		Yes			84755		Honda	Odyssey	2002	Beige	4	N	N	N			Oil dirty; flow H04-SE08; mpg	
462	4/5/2005	Yes		Yes			84761		Kia	Sedona	2004	Beige	4	Y	Y	N			Oil clean; flowmeter K04-SE0;	
484	4/5/2005	Yes					84764		Chrysler	Town & Country	2002	Blue	4	Y	Y	N			Oil clean; flowmeter H04-SE0	
491	4/5/2005	Yes		Yes			84763		Honda	Odyssey	2003	Silver	4	Y	Y	N			Oil clean; flow H04-SE08; mpg	
495	4/4/2005	Yes		Yes			84757		Jeep	Cherokee 4x4	2001	Blue	4	Y	Y	L			Oil dirty; flow H04-SE08; mpg	
506	4/4/2005	Yes		Yes			84754		Plymouth	Voyager	2003	Red	4	Y	Y	L			Oil medium; flow H04-SE08; r	
511	4/2/2005	Yes		Yes			84749		Toyota	Sienna LE	2001	Silver	4	Y	Y	N			Oil clean; flow I04-SE03; mpg	
518	4/2/2005	Yes		Yes			84748		Dodge	Grand Caravan	2002	Gold	4	N	N	N			Oil clean; FM H04SE08; mpg	
665	4/2/2005	Yes		Yes			84747		Dodge	Grand Caravan	2003	Champagn	4	N	Y				Oil dirty; flow I04-SE03; mpg 7	
800	3/14/2005	Yes		Yes			84654		Oldsmobile	Cutlass	1990	Gray	4	Y	Y				Oil clean; flowmeter I04-SE03	
801	3/9/2005	Yes		Yes		Yes	84634		Plymouth	Voyager SE	1988	Silver	3	Y	Y	N			Oil clean; flow I04-SE03; mpg	
802	3/9/2005	Yes		Yes			84633		Volvo	740 Turbo	1987	Gold	4	N	N	N			Oil dirty; flowmeter L04-SE13;	
804	3/9/2005						84637		Oldsmobile	Cutlass	Supreme	Green	4	N	N				Dyne test done only. No PEM	
805	3/10/2005	Yes		Yes		Yes	84639		Chevy	Cavalier	1995	Burgundy	4	Y	Y	N			Oil medium; flow K04-SE01.	
806	3/10/2005	Yes		Yes			84642		Dodge	Spirit	1989	Burgundy	4	Y	Y				Oil clean; flowmeter L04-SE1;	
807	3/10/2005	Yes		Yes			84643		Ford	Escort	1987	Blue	2	N	N	Y	L		Flowmeter L04-SE13	
808	3/10/2005	Yes		Yes		Yes	84640		Ford	Explorer	1994	Green	4	Y	Y				Oil dirty; flow K04-SE03; mpg	
809	3/11/2005	Yes		Yes			84644		Nissan	Pathfinder	2001	Green	4	N	Y				Oil clean; flowmeter H04-SE0	
811	3/11/2005	Yes		Yes			84648		Dodge	SE Dakota	1987	Gray	2	N	Y	L			Oil dirty; flowmeter H04-SE08	
813	3/11/2005	Yes		Yes		Yes	84646		Honda	Accord LXI	1988	Black	4	N	Y	L			Flow H04-SE02; mpg 18.23	
815	3/12/2005	Yes		Yes			84649		GMC	Sonoma	1995	Red	2	Y	Y	L			Oil clean; flow I04-SE03; mpg	
816	3/14/2005	Yes							Nissan	Pickup	1988	Red	2	N	Y				Oil clean; flow H04-SE02; mpg	
818	3/12/2005	Yes		Yes		Yes	84650		Chevy	Lumina APV	1990	Grey	3	N	Y	L			Oil clean; flow I04-SE03; mpg	
819	3/12/2005	Yes		Yes			84653		Chevrolet	C20 Pickup	1977	Yellow	2	Y	Y	N			Oil clean; flowmeter H04-SE0	
820	3/14/2005	Yes		Yes		Yes	84655		Buick	Park Avenue Electra	1990	White	4	N	Y	L			Oil clean; flow K04-SE03; mpg	
821	3/15/2005	Yes		Yes			84659		Chrysler	LeBaron	1988	Red	2	N	Y				Oil dirty (added quant); flowme	
822	3/15/2005	Yes		Yes			84662		Cadillac	Eldorado	1990	Blue	4	N	N	Y	L		Oil dirty; flowmeter I04-SE03;	
823	3/14/2005	Yes		Yes			84656		Chevy	Lumina	1990	Burgundy	3	N	Y	L			Oil clean; flowmeter K04-SE0;	
824	3/14/2005	Yes		Yes		Yes	84658		Chevy	Astrovan	1989	Blue two to	3	Y	Y				Oil medium; flow H04-SE08; r	
825	3/14/2005	Yes		Yes		Yes	84660		Dodge	Caravan SE	1988	Burgundy	3	N	Y	L			Oil clean; flow I04-SE03; mpg	
826	3/15/2005	Yes		Yes			84667		Ford	F250 Pickup	1982	Grey	2	Y	Y	L			Oil dirty; flow H04-SE08; mpg	
827	3/15/2005	Yes		Yes			84661		Buick	Century	1990	White	4	N	Y	L			Oil dirty; flow I04-SE03; mpg	
828	3/15/2005	Yes		Yes			84666		Ford	F-150	1988	Blue	2	Y	Y	L			Oil clean; flowmeter H04-SE0	
829	3/15/2005	Yes		Yes			84665		Toyota	Pickup	1989	Red	2	Y	Y	L			Flowmeter K04-SE03; mpg 15	
830	3/15/2005	Yes		Yes		Yes	84663		Chevrolet	Corsica	1989	Blue	4	Y	Y	L			Flowmeter K04-SE01; mpg 20	
833	3/16/2005	Yes		Yes			84670		Mercury	Topaz	1989	Burgundy	4	Y	Y	N			Oil dirty; flowmeter K04-SE01	

Vehicle ID #	Date	PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)										MILL Note (If MILL during test=Y)	Comments
		Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)			
Round 1																				
834	3/16/2005	Yes		Yes			84672		Toyota	Tercel SR5	1983	Red	2	N	Y				Oil clean; flow H04-SE02; mpg 17	
835	3/16/2005	Yes		Yes		Yes	84669		Dodge	Spirit	1990	Silver/Blue	4	Y	Y	L			Oil clean; flowmeter I04-SE1; mpg 17	
836	3/29/2005	Yes		Yes		Yes	84735		Honda	Accord	1988	Gray	4	N	Y	L			Driveaway mpg 22.144	
837	3/16/2005	Yes		Yes			84674		Pontiac	Firebird	1979	Blue	2	Y	N	L			Oil dirty; flowmeter H04-SE08	
838	3/17/2005	Yes		Yes			84668		Oldsmobile	Delta 88	1991	Silver	4	N	N	L			Flowmeter K04-SE03; mpg 17	
839	3/16/2005	Yes		Yes			84673		GMC	Vandura	1983	Gray	3	Y	Y	M			Oil dirty; flowmeter H04-SE03	
840	3/17/2005	Yes		Yes			84676		Ford	Bronco	1990	Burgundy	2	Y	Y	L			Oil dirty; flow H04-SE08; mpg 17	
842	3/17/2005	Yes		Yes			84679		Toyota	Pickup	1983	White	2	Y	Y	L			Oil dirty; flow K04-SE01; mpg 17	
844	3/17/2005	Yes							Cadillac	Fleetwood	1989	Blue	4	N	Y	H			Oil dirty; flowmeter K04-SE03	
845	3/18/2005			Yes			84677		Buick	Park Avenue	1989	Burgundy	4	N	N	N			Precon. after dyne not able to	
846	3/17/2005	Yes		Yes			84680		Chevrolet	Cheyenne Pickup	1973	Black	2	N	Y	H			Oil dirty; flowmeter H04-SE08	
847	3/18/2005	Yes				Yes			GMC	1500 SLE Sierra	1988	White/Green	2	N	Y				Oil dirty; flow K04-SE03; mpg 17	
848	3/18/2005	Yes		Yes			84687		Chevy	El Camino	1976	Silver	2	N	Y	M			Oil clean; flow K04-SE03; mpg 17	
849	3/18/2005	Yes		Yes			84686		Ford	F-150	1986	Rust	2	Y	Y	M			Oil dirty; flow H04-SE08; 13.8	
850	3/19/2005	Yes		Yes			84683		Ford	Ranger	1990	Blue	2	N	N	M			Oil dirty; flow H04-SE02; mpg 17	
851	3/18/2005	Yes		Yes			84685		Ford	F-150	1988	Red	2	N	Y				Oil clean; flowmeter H04-SE0	
855	3/18/2005	Yes		Yes			84682		Toyota	Camry	1990	Light Blue	4	N	Y				Oil clean; flow K04-SE01; mpg 17	
856	3/19/2005	Yes	Yes	Yes	Yes		84690	84695	Oldsmobile	Cutlass	1989	Brown	4	N	Y	M			Oil dirty; flowmeter K04-SE01	
857	3/19/2005	Yes		Yes			84694		Chevrolet	C-10	1983	White	2	N	Y	H			Oil dirty; flowmeter H04-SE08	
858	3/19/2005	Yes		Yes			84693		Ford	F-150	1988	Red	2	Y	Y	L			Oil clean; flowmeter H04-SE0	
859	3/19/2005	Yes		Yes		Yes	84692		Buick	Century	1988	Gray	4	N	Y				Flowmeter H04-SE02; mpg 16	
862	3/19/2005	Yes		Yes			84689		GMC	Jimmy	1992	Black	4	Y	Y	L			Oil clean; flowmeter K04-SE0	
866	3/21/2005	Yes		Yes			84699		Chevrolet	Caprice	1985	Burgundy	4	N	Y	M			Oil clean; flowmeter I04-SE03	
867	3/21/2005	Yes		Yes			84700		Ford	F-150	1978	White	2	N	Y	L			Flowmeter K04-SE03; mpg 7.	
868	3/21/2005	Yes		Yes			84696		Toyota	Pickup 4x4 Turbo	1987	Black	2	Y	Y				Oil dirty; flow H04-SE02; mpg 17	
870	4/7/2005	Yes		Yes			84777		Oldsmobile	Cutlass Supreme	1987	White	4	Y	Y	L			Flowmeter H04-SE08; mpg 17	
871	3/22/2005	Yes		Yes	Yes		84706	84712	Chevrolet	Nova	1976	Burgundy	4	N	Y	L			Oil dirty; flow K04-SE03; mpg 17	
872	3/22/2005	Yes		Yes			84707		Chevy	Impala	1973	Yellow	4	Y	Y	L			Oil dirty; flow K04-SE03; mpg 17	
873	3/23/2005	Yes					84701		Ford	F-150	1990	Brown	2	Y	Y				Oil dirty; flow I04-SE03; mpg 17	
875	3/22/2005	Yes		Yes			84705		Chevy	Malibu	1980	Blue	4	Y	Y	L			Oil dirty; flow I04-SE03; mpg 17	
876	3/22/2005	Yes		Yes			84702		Chevy	G20 Van	1989	Blue	Van	N	Y	L			Oil clean; flow I04-SE03; mpg 17	
877	3/22/2005	Yes		Yes			84703		Chevy	Blazer 4x4	1987	Brown	2	Y	Y	L			Oil dirty; flow K04-SE01; mpg 17	
878	3/23/2005	Yes	Yes	Yes			84708		Dodge	Caravan ES	2003	Red	4	Y	Y				Oil clean; flow I04-SE03; mpg 17	
881	3/23/2005	Yes		Yes			84709		Ford	Ranger XLT	1989	Burgundy	2	Y	Y				Oil clean; flow H04-SE02; mpg 17	
883	3/23/2005	Yes		Yes			84710		Chevy	Monte Carlo	1984	White	2	Y	Y				Oil clean; flow I04-SE03; mpg 17	
885	3/24/2005	Yes		Yes			84714		Saturn	Station Wagon	1994	Green	4	N	N	L			Oil dirty; flow I04-SE08; mpg 2	
887	3/24/2005	Yes		Yes			84717		Ford	Mustang	1979	Silver w/or	2	N	N	L			Oil clean; flow H04-SE02; mpg 2	
888	3/24/2005	Yes							VW	Thing	1974	Beige	4	N	N				Oil dirty (air cooled), flow I04-;	
889	3/24/2005	Yes		Yes			84715		Mazda	B2200	1988	Grey	2	N	Y	M			Oil dirty; flow H04-SE02; mpg 2	
891	4/1/2005	Yes		Yes			84743		Mazda	Protégé	1999	Tan	4	N	N	N			Oil clean; flow H04-SE02; mpg 2	
894	3/25/2005	Yes	Yes	Yes			84720		Chevy	Silverado 1500	1989	Burgundy	2	N	Y	L			Oil dirty; flow K04-SE03; mpg 2	
895	3/25/2005	Yes		Yes			84719		Oldsmobile	Cutlass	1990	Blue	4	N	Y	L			Oil - low on oil; flowmeter K04	
897	3/28/2005	Yes		Yes			84732		Jeep	CJ-7	1979	Black	2	N	Y	L			Oil dirty; flowmeter I04-SE03;	
898	3/26/2005	Yes		Yes			84723		Chevy	Cavalier	1991	Red	2	N	Y	N			Oil clean; flow H04-SE03; mpg 2	
901	3/26/2005	Yes		Yes			84724		Oldsmobile	Cutlass Cierra	1990	Burgundy	4	Y	Y	M			Oil dirty; flow K04-SE03; mpg 2	
902	3/26/2005	Yes		Yes			84727		Ford	Granada	1982	Beige	4	N	Y	L			Oil dirty; flow K04-SE03; mpg 2	
903	3/26/2005	Yes		Yes			84726		Ford	Aerostar	1990	Burgundy	3	Y	Y	N			Oil clean; flow I04-SE03; mpg 2	
904	3/28/2005	Yes				Yes			Subaru	Forester	2001	White	4	N					Oil clean; flowmeter I04-SE08	
905	3/28/2005	Yes		Yes			84729		Toyota	Camry	2001	Gray	4	N	Y	N			Oil clean; mpg 19.18, PAMSI7	
906	3/28/2005	Yes		Yes			84728		Ford	Escape	2002	Red	4	N	Y				Oil clean; flowmeter I04-SE03	
910	3/29/2005	Yes		Yes		Yes	84738		Pontiac	Grand Prix	1976	Red	2	Y	N	M			Oil clean; flowmeter H04-SE0	
911	3/29/2005	Yes		Yes			84737		Chevrolet	Celebrity	1984	Blue	4	N	Y	L			Flowmeter H04-SE02; mpg 21	
913	3/31/2005	Yes		Yes		Yes	84740		Buick	LeSabre	1990	Burgundy	4	N	Y	N			Oil medium; flow I04-SE03; m	
915	4/1/2005	Yes		Yes			84745		Honda	Civic	1990	Burgundy	2	N	Y	L			Oil dirty; flow I04-SE08; mpg 2	
916	4/1/2005	Yes							Chevy	Van 20	1986	Black	3	N	N				Oil dirty; flow I04-SE03; mpg 2	

		PEMS Testing Summary					Dyne Summary		General Vehicle Info (ERG)											
Vehicle ID #	Date	Cond Run	Cond Rep	PEMS on dyne	PEMS on dyne Rep	Dway	Dyne Test	Dyne Rep	Make	Model	Model Year	Color	No of Doors	Fuel Collected (Y/N)	Oil Collected (Y/N)	Smoke Observ (N/L/M/H)	MIL during test (Y/N)	MILL Note (If MILL during test=Y)	Comments	
Round 1																				
917	4/2/2005	Yes		Yes			84752		Ford	F 100 Ranger	1978	Green	2	Y	Y	H			Flow meter K04-SE03; mpg 3	
918	4/2/2005	Yes		Yes			84751		Ford	Escort	1998	Black	4	N	Y	N			Engine oil clean; semtech C05	
921	4/4/2005			Yes			84765		Chev	Impala	1985	Green	4	Y	Y	H			Oil dirty	
922	4/4/2005	Yes		Yes			84758		Chevy	Beauville 10	1979	Silver/Blue	4	Y	Y	M			Oil clean; flow H04-SE08; mpg 21	
923	4/5/2005	Yes		Yes			84760		Ford	Escape	2005	Gray	4	Y	Y	N			Oil clean; flowmeter H04-SE01	
924	4/5/2005	Yes		Yes			84759		Ford	Focus	2005	Gray	4			N			Flowmeter I04-SE08; mpg 21	
989	4/4/2005	Yes		Yes			84753		Dodge	Grand Caravan	2003	Silver	4	N	Y	N			Oil clean; flow H04-SE08; mpg 21	
925	4/6/2005	Yes		Yes			84772		Dodge	Caravan SE	1992	Burgundy	3	Y	Y	N			Oil clean; flowmeter I04-SE03	
926	4/6/2005	Yes		Yes			84768		Ford	F-150 XL	1995	Blue	2	Y	Y	N			Oil clean; flowmeter H04-SE01	
927	4/6/2005	Yes		Yes			84771		Chev	Astro Van	1994	Maroon	4	Y	Y	L			Oil dirty; flow H04-SE08; mpg 21	
928	4/6/2005	Yes		Yes			84766		Dodge	Grand Caravan Sport	2000	Red	4	Y	Y	N			Oil medium; flowmeter K04SE01	
929	4/7/2005	Yes		Yes			84775		Chevrolet	Suburban	1997	Red	4	Y	Y	N			Oil clean; flow meter H04-SE01	
930	4/6/2005	Yes		Yes			84773		Toyota	Forerunner	1998	White	4	N	N	N			Oil clean; flow H04-SE08; mpg 21	
931	4/6/2005	Yes		Yes			84767		Nissan	Frontier	1998	Green	2	Y	Y	N			Oil medium; flowmeter K04SE01	
935	4/6/2005	Yes		Yes			84770		Ford	F-250	1995	Gray	2	Y	Y	L			Oil clean; flow H04-SE08; mpg 21	
937	4/7/2005	Yes		Yes			84774		Dodge	Caravan	1995	Burgundy	3	Y	Y	L			Oil medium; flowmeter I04-SE01	
939	4/9/2005	Yes							Chevy	Astrovan	1992	Blue	3	Y	Y	L			Oil clean; flow K04-SE03; mpg 21	
941	4/8/2005	Yes							Plymouth	Voyager	1992	Black	4						Oil dirty; flowmeter I04-SE03; mpg 21	
944	4/8/2005	Yes							Chevy	Blazer 4x4	1993	Green	2						Oil medium; flow K04-SE03; mpg 21	
945	4/8/2005	Yes							Chrysler	Voyager	2002	White	4						Oil clean; flowmeter I04-SE03; mpg 21	
946	4/8/2005	Yes							Jeep	Cherokee	1996	Green	4						Oil dirty; flow H04-SE02; mpg 21	
950	4/9/2005	Yes							Ford	Club Wagon E150	1989	Burgundy	3						Oil clean; flowmeter I04-SE03; mpg 21	
EPA Correlation Vehicle																				
1015	07/26/2004						84081		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	8/02/2004						84114		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	08/07/2004						84143		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	08/14/2004						84177		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	08/18/2004						84187		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	08/25/2004						84218		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	09/08/2004						84259		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	09/14/2004						84290		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	09/24/2004						84348		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	09/27/2004						84360		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	09/29/2004						84374		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	10/01/2004						84387		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	01/22/2005						84450		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	01/26/2005						84461		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	01/31/2005						84480		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	02/05/2005						84507		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	02/11/2005						84536		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	02/14/2005						84544		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	02/22/2005						84578		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	03/03/2005						84606		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	03/08/2005						84624		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	03/14/2005						84651		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	03/22/2005						84697		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	
1015	03/31/2005						84741		Ford	Taurus	1988	Red	4						Study Correlation Vehicle	

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
		Off	None	None	None		57,052		Y		Car	May-01	3601	Lbs	FWD	Auto	4	
							53,493		Y		Truck	Feb-79	6300				5	
							111,131	Miles	Y		Van	3/31/1994	6400		RWD	Auto	4	Mfr Date - 4/21/94 c
	N	Off	None	None	None		63,377	Miles	Y		SUV	Sep-98	5510	Lbs	On-demand 4WD	Auto	4	
	N	Off		N/A	N/A		75,364				SUV	Mar-01	7200	Lbs	RWD			
							102,654		Y		Car	Feb-95	3457		FWD	Auto	5	
							102,281		Y		Truck	Jul-79	6900		RWD	Auto		
	N	On					68,213		Y		SUV	Jun-00	3948	Manual Lbs	Full-time 4WD	Auto	5	
							92,692		Y		Car	Dec-89	4057	Lbs	FWD	Auto	5	
	N	On					48,823.50		Y		Truck	Aug-01	6750	Lbs		Auto		
	N	Off	EGR/2nd Air/Heated Catalyst	N/A	N/A		131,484	Miles	Y		Car	Oct-95	3440	Lbs	FWD	Manual	5	
							216,571		Y		Car	Aug-91	3165	Lbs	FWD	Manual	5	
	N	Off	Heated Catalst/2nd Air	N/A	N/A		26,606	Miles	Y		Car	Jul-00	4028	Lbs	FWD	Auto	5	
							161,025		Y		Van	Apr-89	4870	Lbs	FWD	Auto	Unk	
	N	Off	None	None	None		111,475	Miles	Y		Car	Dec-95	3681		FWD	Auto		
	N	Off	None	None	None		50,388		Y		Car	May-02	3660		FWD	Manual	5	
	N					"Not Rdy" mo	102,916		Y		SUV	Jan-95	5300	Lbs	RWD	Auto W/OD		
	N						81,537	Miles	Y		Car	Jun-88	4114	Lbs	FWD	Auto	3 W/OD	
	N	Off	None	P138, P046	None	Note: Downlo	131,876		Y		SUV	Apr-98	4900	Lbs	On-demand 4WD	Manual	5	
						N/A - 1990 ve	81,289	Miles	Y		Car	Apr-90	3414	Lbs	FWD	Manual	5	
	N	Off	None	None	None		73,238		Y		Car	May-99	4535	Lbs	FWD	Auto	Unk	
	N		None	None	None		51,533	Miles	Y		Car	Nov-00	3284	Lbs	FWD	Manual	5	
	N	Off	None	None	None		45,445	Miles	Y		Car	Sep-97	4565		FWD	Auto W/OD		
			None	None	None		38,137	Miles	N		Truck	May-02	5420	Lbs	On-demand 4WD	Auto		
							138,629		N		Truck	Nov-86	4400	Lbs	RWD	Auto	3	
	N	Off	None	None	None		74,621	Miles	Y		Car	Nov-95	3090	Lbs	FWD	Auto		
							138,899	Miles	Y		Van	Jan-95	5040	Lbs	FWD	Auto W/OD		
							131,386	Miles	Y		Van	Dec-93	5445	Lbs	FWD	Auto		
							74,158	Miles	Y		SUV	Sep-95	4300		On-demand 4WD	Manual	5	
							116,807		Y		Car	Jun-89	3605	Lbs	FWD	Auto		
							70,497	Miles			Car	Mar-89	5480	Lbs	RWD	Auto W/OD		
		Off	None	None	None		48,082	Miles	Y		Car				FWD	Auto	3	
	N	Off	None	None	P0301		90,062		Y		Van	Feb-97	5380	Lbs		Auto		
							100,758	Miles	Y		SUV	Feb-95	4850	Lbs	RWD	Auto	4	
	N	Off	None	None	None		19,366		Y		Truck	Sep-02	4600	Lbs		Auto	4	
							98,852	Miles	N		Car	Aug-68				Auto	3	
	N						185,061		Y		Car	Mar-90	5442		RWD	Auto W/OD		
	N	Off		None	None		76,476		Y		Car	Jan-99	3440		FWD	Auto	3	
	N						79,576		Y		Car	May-97	3915	Lbs	FWD	Auto	4	
							209,974	Miles	Y		Car	May-89	3495	Lbs	FWD	Auto	3	
	Y	Off	None	None	None		77,944		Y		Car	Nov-99	4035	Lbs	FWD	Auto	4	
	Y	Off	None	None	None		25,279		Y		Car	Mar-03	4684	Lbs	FWD	Auto		
	N	Off	None	None	None		99,428		Y		Car	Jul-97	3992		FWD	Auto	4	
	N	Off					21,015		Y		Van	Oct-03	2570	kg	FWD	Auto	Unk	
	Y	Off	None	None	1456, P0456		12,463	Miles	Y		SUV	Nov-02	5300	Lbs	On-demand 4WD	Auto	3	
	N	Off					70,732	Miles	Y		Car				FWD	Auto	Unk	Mfr Date, Total GV
	N	Off					39,497.60	Miles	Y		Car	Nov-98	4490	Lbs	RWD	Auto	Unk	
	N	Off	None	None	None		89,219	Miles	Y		Car	Feb-00	3530	Lbs	FWD	Auto		
	N					Vehicle on MI	70,494	Miles	Y		Car	Feb-91	4468	Lbs	FWD	Auto	Unk	

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
	N		None	None	None		53,419	Miles			Car	Sep-98	3274	Lbs	FWD	Manual	5	
							120,272	Miles	Y		SUV	Apr-93	5280	Lbs	On-demand 4WD	Auto	4	
	N	Off	None	None	None		114,929	Miles	Y		SUV	Oct-98	4700	Lbs	RWD	Manual	5	
	N	Off	None	None	None		62,760		Y		SUV	Nov-99	3948		Full-time 4WD		3	
ISO9141-A	N		Evap System	P0400, P1	P0450, P1105		119,192	Miles			Car				FWD	Auto w/o OD		
SAE PWM	N	Off					91,037	Miles	Y		Truck	Jan-99			RWD	Auto W/OD		
SAE-PWM	N	Off					24,581	Miles	Y		Car	Feb-02	4684	Lbs	FWD	Auto		
							169,034	Miles	Y		Car	May-94	4150	Lbs	FWD	Auto W/OD		
							87,562	Miles	Y		Car	Jul-84	2850		FWD	Manual	5	
ISO 9141	N	Off					114,751	Miles	Y		Car	Apr-99	4550	Lbs	FWD	Auto W/OD		
							214,123	Miles	Y		Car				FWD	Auto		
							171,701	Miles	Y			Sep-94	5300	Lbs	On-demand 4WD	Auto W/OD		
							90,008		Y		Van	Aug-90	6400	Lbs	RWD	Auto W/OD		
SAE VPW	N	Off					146,463	Miles	Y		Car	Jul-97	3545	Lbs	FWD	Manual	5	
ISO-9141-	N	Off	None	None	None		74,265	Miles	Y		Car	Mar-00	4333	Lbs	FWD	Auto		
ISO-9141-	N	Off	None	None	None		149,656	Miles	Y		Car	Dec-97	3440	Lbs	FWD	Auto	3	
							184,842	Miles			Truck	Jun-95	6050	Lbs	RWD	Auto		
							102,067	Miles	Y		Car	Jan-95	4079	Lbs		Auto w/o OD		
SAE J1850	N	Off	None	None	None		112,247	Miles	Y		Truck	Apr-96	4400	Lbs	RWD	Manual	5	
							172,169	Miles	Y		Car	Feb-93	4449	Lbs	FWD	Auto W/OD		
	N	Off	Heated Catalyst, 2nd Air	N/A	N/A		86,262	Miles	Y		SUV	Sep-99	5340		On-demand 4WD	Auto W/OD		
SAE VPW	N	Off					40,718	Miles	Y		Truck	Nov-01	6200	Lbs	RWD	Auto W/OD		
ISO 9141	N	Off					163,230	Miles	Y		Van	May-98	5350	Lbs	FWD	Auto w/o OD		
							108,545	Miles	Y		Car	Feb-89	4459	Lbs	FWD	Auto W/OD		
	N	Off	Catalyst	None	None		124,047	Miles	Y		Car	Nov-95	4245	Lbs	Full-time 4WD	Manual	5	
							178,221	Miles	Y		Car	Jun-88	4309	Lbs	FWD	Auto w/o OD		
							160,610	Miles	Y		SUV	Mar-95	5280	Lbs	On-demand 4WD	Auto W/OD		
ISO 914	N	Off	EGR, Heated Catalyst, 2nd Air	N/A	N/A		55,515				Car				FWD			
							185,568		Y		Car	Aug-90	3530	Lbs	RWD	Manual	5	
ISO 9141	N	Off		N/A	N/A		104,199	Miles	Y		Van	Mar-99	5360	Lbs	FWD	Auto w/o OD		
ISO 9141-	N	Off	Evap system, Heated Catalyst,	None	None		85,423	Miles	Y		Van	Apr-00	5410	Lbs	FWD	Auto w/o OD		
SAE PVW	N	Off	N/A	N/A			72,225	Miles	Y		Car	Dec-98	3495	Lbs	FWD	Manual	5	
		Off	Heated Catlyst, 2nd Air	N/A	N/A		172,401		Y		SUV	Aug-92	4900	Lbs	RWD, On-demand	Manual	5	
ISO9141-2			Heated Catlyst, 2nd Air	N/A	N/A		48,457		Y		Car	Nov-99	4180	Lbs		Auto W/OD		
SAE-J1850	N	Off	Heated Catlyst, 2nd Air	None	None		128,164	Miles	Y		Car	Dec-96	3650	Lbs	FWD	Auto w/o OD		
SAE 1850	Y	On	Heated Catlyst, 2nd Air	P0174	P0174		74,497				Car	Oct-97	5427	Lbs	FWD	Auto W/OD		
SAE1850-	N	Off	Heated Catlyst, 2nd Air	None	None		71,187		Y		Car	Apr-98	4468	Lbs	FWD	Auto w/o OD		
							129,123		Y		Car	Aug-93	3630	Lbs	FWD	Auto W/OD		
							198,045		Y		Truck	Jun-96	6300		RWD	Auto w/o OD		
SAE 1850	N	Off	Evap system, Heated Catalyst,	None	None		93,660	Miles	Y		Car	Dec-99	4598	Lbs	FWD	Auto w/o OD		
SAE1850-	N	Off	EGR, Heated Catalyst, 2nd Air	None	None		66,812		Y		Car	Dec-89	3375	Lbs	FWD	Manual	5	
SAE1850	N	Off	EGR, Heated Catalyst, 2nd Air	None	None		135,076		Y		SUV	Oct-01	4450	Lbs	RWD	Auto w/o OD		
	N		Catalyst				129,019		Y		Car				RWD	Auto w/o OD		
							170,424		Y		Car	Mar-90	3815	Lbs	FWD	Manual	5	
							91,307	Miles	Y		Car	Feb-88	4309	Lbs	FWD	Auto w/o OD		
							261,823	Miles	Y		SUV	Sep-89	4900	Lbs	RWD	Auto W/OD		
SAE1850-	N	Off	Heated Catalyst, 2nd Air	None	None		26,740		Y		Car	Nov-01	3485	Lbs	FWD	Auto W/OD		
							170,009		Y		Van	Feb-93	5040	Lbs	RWD	Auto w/o OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
ISO 9141	N	Off	Heated Catalyst, 2nd Air System	None	None		168,970		Y		Van	Sep-99	5565		RWD	Auto w/o OD		
ISO 9141	N	Off	Heated Catalyst, 2nd Air System	P1456	None		76,170	Miles	Y		Car	Apr-00	3990	Lbs	FWD	Auto w/o OD		
SAE 1850	Y	On	Heated Catalyst, 2nd Air System	P0133	None		61,032		Y		Truck	Nov-94	5600	Lbs	RWD	Manual	5	
							74,728	Miles	Y		Truck	Jul-88	3940	Lbs	RWD	Manual	5	
ISO-9141	N	Off	Heated Catalyst, 2nd Air System	None	None		56,183		Y		Car	Jul-00	4035	Lbs	FWD	Auto W/OD		
							127,045		Y		Car	Sep-93	3318		RWD	Manual	5	
ISO 9141	N	Off	Evap system, EGR, Catalyst, O	None	None		20,651		Y		SUV	Jan-02	4288		Full-time 4WD	Auto W/OD		
							143,271		Y		Car	Aug-82	3855		RWD	Auto w/o OD		
ISO 9141	N	Off	2nd Air, Heated Catalyst	None	None		165,084		Y		Car	Aug-96	4180		FWD	Auto W/OD		
							99,431		Y		Car	Oct-93	3825		RWD	Auto W/OD		
SAE PWM	N	Off	2nd Air System, Heater Catalyst	None	None		52,245		Y		Car	Feb-01	3620			Auto w/o OD		
ISO 9141	N	Off	Evap system, EGR, Catalyst, H	None	None		74,695		Y		Van	Jul-98	2432		RWD	Auto w/o OD		
							205,819		Y		Car	Jun-98	3090		RWD	Manual	5	
SAE PVW	N	Off	Heated Catalyst, 2nd Air System	None	None		139,853		Y		Car	Oct-95	4421		RWD	Auto w/o OD		
							117,601		Y		Car	Oct-86	3631		RWD	Auto w/o OD		
SAE PWM	N		Heated Catalyst, 2nd Air Support	None	None		92,918		Y		Truck	Oct-98	5120		RWD	Manual	5	
							236,782	Miles	Y		Car	Apr-88	2011	kg		Auto w/o OD		1G2HX5404JW27124
							132,686	Miles	Y		Car	Aug-93	3825	Lbs	FWD	Auto w/o OD		
SAE PWM	Y	On	2nd Air System, Heated Catalyst	P0141, P0	None		110,403		Y		Car	Oct-95	4707	Lbs	RWD	Auto w/o OD		
	N	Off	Evap system, EGR, Heated catalyst	P0700	None		82,858		Y		SUV	Oct-97	2223		Full-time 4WD	Auto W/OD		
							135,033	Miles	Y		Car	Mar-95	4837	Lbs	RWD	Auto w/o OD		
ISO 9141	N	Off	2nd Air System, Heated Catalyst	None	None		129,416		Y		Car	Nov-96	4075	Lbs		Auto w/o OD		
SAE VPW	N	Off	Evap system, 2nd Air System, H	None	None		148,857		Y		Car	Feb-96	3503		RWD	Manual	5	
ISO 9141	N	Off	EGR, Heated Catalyst, 2nd Air	None	None		140,402	Miles	Y		Car	Apr-02	3330		RWD	Auto w/o OD		
ISO 9141	N	Off		None	None		47,772	Miles	Y		Car	Feb-00	4180	Lbs	RWD	Auto w/o OD		
ISO 9141	N	Off	EGR, 2nd Air System, Heated C	None	None		170,118		Y		Car	Apr-00	3515		RWD	Auto w/o OD		
							172,311		N		Truck	Jun-84	6100	Lbs	On-demand 4WD	Manual	4	
ISO 9141	N	Off	Heated Catalyst, 2nd Air System	None	None		75,802		Y		SUV	Feb-00	4555		Full-time 4WD	Manual	5	
							235,545	Miles	N		Car	Jul-77	2577	Lbs	RWD	Auto w/o OD		
ISO 9141	N	Off		None	None		70,613	Miles	Y		SUV	Oct-00	4950	Lbs	RWD	Auto W/OD		
ISO 9141	N	Off	None	P0442 (EVAP)	None		7,556	Miles	Y		Car	Nov-02	2943	Lbs	FWD	Manual	6	
SAE-1850	N	Off	None	None	None		142,997		Y		Car	Mar-99	4454	Lbs	RWD	Auto W/OD		
						N/A, 1993	283,222		Y		Van	Oct-82	5600		FWD	Auto W/OD		
SAE-J1850	N	Off	None	None	None		60,051		Y		Truck	Apr-01	4600	Lbs	RWD	Auto		
							116,783	Miles	Y		Car	Dec-93	3415	Lbs	FWD	Auto w/o OD		
							103,889	Miles	Y		Car	Oct-89	4294	Lbs	RWD	Auto w/o OD		
							147,282		Y		Van	Feb-91	6100		RWD, Full-time 4W	Auto w/o OD		
							303,803		Y		Car	Sep-85	4780		RWD	Auto w/o OD		
							30,297.10	Miles	Y		Truck	Oct-85	4498	Lbs	RWD	Auto w/o OD		
						N/A - 1983	88,692		Y		Van	Jan-83	6300	Lbs	RWD	Auto		
							82,496.30	Miles	Y		Car	Apr-89	5480	Lbs	RWD	Auto w/o OD		
SAE-PWM	Y	Off		None	None		98,654		Y		Truck	Mar-98	6000	Lbs	RWD	Auto w/o OD		
SAE-J1850	Y	On		P0171	None		102,212		Y		Van	Apr-99	2458	Lbs	RWD	Auto w/o OD		
						N/A - 1994	99,209		Y		Truck	May-94	6200	Lbs	RWD	Auto W/OD		
ISO9141	Y	Off	Evap system, EGR, Catalyst	P0134	None		126,725		Y		Car	May-96			FWD	Auto w/o OD		
						1986	160,023		Y		Car	Aug-86	3660	Lbs	RWD	Auto w/o OD		
							222,707		Y		Car	Not listed	Not listed		FWD	Manual	5	
							188,049	Miles	Y		Car	Jun-84	Unreadable	Lbs	FWD	Auto w/o OD		
							179,840		Y		Car	Jan-87	5475			Auto w/o OD		
						No OBD II 19	153,979	Miles	Y		Car	Mar-92	4167			Auto w/o OD		
						No OBD # 19	125,218		Y		Car				RWD	Auto w/o OD		Mfr Date - No label
						No OBDII 199	171,169		Y		Truck	Oct-89	5450	Lbs	RWD	Manual	5	

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
SAE-PWM	N	Off		None	None		72,460		Y		Car	Sep-01	4684	Lbs	FWD	Auto w/o OD		
							169,010		Y		Car	Mar-94	2582	Lbs		Auto w/o OD		
						No OBD II	128,006		Y		Car				RWD	Auto w/o OD		Mfr Date & GVWR -
						No OBD II	?		Y		Truck	Nov-72	4900	Lbs	RWD	Auto w/o OD		
							100,274	Miles	Y		Car	Oct-84	5320	Lbs	RWD	Auto		
						No OBD II 19	127,686	Miles	Y		Car	Jul-91	3466	Lbs	RWD	Auto w/o OD		
ISO9141	N	Off		None	None		135,757	Miles	Y		Car	Feb-00	3330		RWD	Auto w/o OD		
SAE VPW	N	Off		None	None		1,200.40		Y		Car	May-97	4471	Lbs	FWD	Auto w/o OD		
							140,183	Miles	Y		Car	Oct-91	3680		RWD	Manual	5	
SAE VPW	N	Off	EGR	None	None		18,148		Y		Van	Feb-04	2586		FWD	Auto w/o OD		
							181,867	Miles	Y		Car	May-89	3315	Lbs	FWD			
							87,064		Y		Car	Jan-93	3318		FWD	Auto w/o OD		
SAE VPW	Y	On		None	None	Vehicle on MIL	85,284		Y		Van	Dec-99	2430		RWD	Auto w/o OD		
							63,817	Miles	N		Car	Oct-90	3029	Lbs	FWD	Manual	5	
							33,594	Miles	Y		Car	Oct-86	4595			Auto w/o OD		
							37,848	Miles	Y		Truck	Jun-86	6100	Lbs	RWD		4	
							133,718		Y		Car	Nov-87	4297	Lbs		Auto		
						No OBD II 19	177,088		Y		Car	Apr-92	3819		RWD	Auto w/o OD		
							176,696		Y		Car	Feb-89	3420	Lbs	FWD	Auto w/o OD		
						No OBD II 19	113,379	Miles	Y		Car	Nov-92	3461	Lbs	RWD	Manual	5	
SAE PWM	N	Off		P0133	None		118,527	Miles	Y		Car	Dec-97	2290		FWD	Auto w/o OD		
							173,075	Miles	Y		Car	Unknown	Unknown		FWD	Auto W/OD		
							190,259	Miles	Y		Car	Mar-87	3470	Lbs	FWD	Manual	5	
ISO9141	N	Off		None	None		149,987	Miles	Y		Car	May-98	4273			Auto w/o OD		
ISO9141	N	Off		None	None		70,129	Miles	Y		Van	May-97	2427		RWD	Auto w/o OD		
						No OBD II	109,738	Miles	Y		Car	Mar-94	3494	Lbs	RWD	Auto W/OD		
						No OBD II	116,971		Y		Truck	Jun-87	4480		RWD, On-demand	Manual	5	
							184,415		Y		Car	Dec-82	4030	Lbs	RWD	Auto W/OD		
							174,031	Miles	Y		Truck	Jun-89	4795			Auto W/OD		
						No OBD II	178,212		Y		Car	Jun-87	3165		RWD	Manual	4	
						No OBDII 19	166,820	Miles	Y		Car	Nov-91	4348		RWD	Auto w/o OD		
SAE PWM	N	Off		None	None		104,323		Y		Car	Feb-97	5161		RWD	Auto w/o OD		
SAE PWM			None	None	None		130,898	Miles	Y		Car	Feb-01	2124		FWD	Auto w/o OD		
							159,311		Y		Car	Oct-89	4047		FWD	Auto w/o OD		
	Y					"Service engine	227,290		Y		Car	Not available	N/A		FWD	Auto W/OD		
						N/A	132,325	Miles	Y		Truck	Jun-89	4165	Lbs	RWD	Auto w/o OD		
							269,003	Miles	Y		Car	Aug-89	3800	Lbs	FWD		5	
							1,870	Miles	Y		Car	Unreadable	Unreadable		FWD	Auto w/o OD		
ISO9141	N	Off	None	None	None		58,652		Y		Car	Nov-99	3549		FWD	Auto		
							58,429	Miles	Y		Car	Unreadable	Unreadable		FWD	Auto w/o OD		
							137,590.30	Miles	Y		Car	Apr-79	5108		RWD	Auto w/o OD		
						N/A - Light off	169,741				Truck	Oct-93	6100	Lbs	RWD	Auto W/OD		
N/A	No						36,269		Y		Car	Feb-86	5375	Lbs	RWD	Auto W/OD		
							128,599		Y		Car	Oct-88	4466		FWD	Auto w/o OD		
							188,068	Miles	Y		Car	Dec-94	2952	Lbs	FWD	Auto w/o OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
ISO9141	No	Off	None	None	None				Y		Car				RWD	Auto w/o OD		Mfr Date & Total GV
							104,268	Miles	Y		Truck	Dec-95	5300	Lbs	On-demand 4WD	Auto w/o OD		
						No OBD II	130,255		Y		Truck	Sep-89	4700		Full-time 4WD	Auto W/OD		
							42,913	Km	N		Car	Oct-77	1335	Lbs	RWD		4	
VPW	No	Off	None	None	None		111,018		Y		Van	Feb-97	5357	Lbs	FWD	Auto w/o OD		
ISO9141	No	Off	None	None	None		104,699	Miles	Y		Car	Jan-00	3440	Lbs	FWD	Auto w/o OD		
							171,362		Y		Truck	Nov-94	6100		RWD	Manual	5	
ISO-9141	No	Off	None	None	None		75,775	Miles	Y		Car	Mar-97	3440		FWD	Manual	5	
							8975	Miles	Y		Car	Mar-84	5490		RWD	Auto w/o OD		
						No OBD 1984	299,695	Miles	Y		Car	Apr-84	4300	Lbs	RWD	Manual	4	
							85,907.40	Miles	Y		Car	?-87	Unreadable		RWD	Auto W/OD		
ISO9141	Yes	Off	None	None	None		152,029	Miles	Y		Truck	May-97	6400	Lbs	RWD	Auto		
						No OBD II 19	184,963	Miles	Y		Truck	Aug-93	6250	Lbs	RWD	Auto w/o OD		
							92,817	Miles	Y		Car	Apr-89	4210	Lbs	FWD	Auto W/OD		
							59,404	Miles	Y		Car	Unreadable	Unreadable		FWD	Auto W/OD		
ISO9141	No	Off	None	None	None		146,571	Miles	Y		Car	May-96	4036		FWD	Auto w/o OD		
ISO9141	No	Off	None	None	None		127,406	Miles	Y		Car	Mar-97	4075	Lbs		Auto W/OD		
ISO9141	No		None	None	None		92,673		Y		SUV	Jun-99	6400		RWD			
ISO9141	No		None	None	None		115,362		Y		Car	Jan-98	3330	Lbs	RWD	Manual	5	
ISO9141	No	Off	None	None	None		49,723	Miles	Y		Car	Oct-00	3460		RWD	Auto W/OD		
						No OBD II 19	75,574	Miles	Y		Car	Unknown	Unknown		RWD	Auto w/o OD		
							101,517		Y		Car	Nov-93	3785	Lbs	FWD	Auto w/o OD		
SAE-VPW	No	Off	None	None	None		76,611	Miles	Y		Car	Apr-99	3983		RWD	Auto w/o OD		
SAE PWM	No	Off	None	None	None		40,263		Y		Van	Dec-01	2430		FWD	Auto w/o OD		
						No OBD II 19	81,571		Y		Car	Jul-72	4720		RWD	Auto w/o OD		Odometer Reading
						No OBD II 19	121,435		Y		Van	Jun-93	6600	Lbs	RWD	Auto w/o OD		
SAE 1850	No	Off	Heated Catalyst, 2nd Air	None	None		115,367		Y		Truck	Feb-97	6000	Lbs	RWD	Auto W/OD		
SAEVP	No	Off	None	None	None		24,907		Y		Van	Oct-02	2430			Auto w/o OD		
						No OBD II 19	158,762	Miles	Y		Van	Oct-90	5040		RWD	Auto w/o OD		
ISO9141	No	Off	None	None	None		124,721	Miles	Y		Car	May-96	4034		FWD	Manual	5	
						No OBD II	80,740	Miles	Y		Car	Jul-89	3315	Lbs	FWD	Auto W/OD		
ISO 9141	Yes	On	None	P0105 mar	P0105 manifold		154,236				Car	Nov-96	3413		FWD	Auto W/OD		
						No OBD II	202,788	Miles	Y		Car	Nov-89	3880	Lbs	RWD	Manual	5	
ISO9141	No	Off	None	None	None		95,297	Miles	Y		Car	Mar-00	3990		FWD	Auto W/OD		
							144,664		Y		Car	Feb-89	3696			Auto w/o OD		
ISO9141	No	Off	None	None	None		127,647		Y		Car	Apr-98	4180		RWD	Auto W/OD		
PWM	No	Off	Heat Catalyst, 2nd Air	None	None		37,914	Miles	Y		Van	Jan-01	5560	Lbs	FWD	Auto W/OD		
SAE VPW	No	Off		None	None		108,173		Y		Car	Jan-96	4520	Lbs	FWD	Auto w/o OD		
ISO 9141	No	Off	Heated Catalyst, 2nd Air	None	None		11,647		Y		Car	Aug-96	4273	Lbs	FWD	Auto W/OD		
ISO 9141	No	Off	None	None	None		60,272	Miles	Y		Car	Jul-99	4108	Lbs	FWD	Auto w/o OD		
SAE PWM	No	Off	None	None	None		77,796	Miles	Y		Car	Dec-97	2125	Lbs	FWD	Auto W/OD		
ISO 9141	No	Off	None	None	None		94,823	Miles	Y		SUV	Mar-97	4360	Lbs	RWD	Manual	5	
ISO 9141	No	Off	EGR, Heated Catalyst, 2nd Air	None	None		6,248	Miles	Y		Car	Sep-03	3370	Lbs	FWD	Manual	5	
							72,455	Miles	Y		Car	Aug-89	6005	Lbs	RWD	Auto W/OD		
							87,701	Miles	Y		Car	Feb-88	5361	Lbs	RWD	Auto W/OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
							225,160		Y		Truck	Mar-87	4400	Lbs	RWD	Manual	5	
SAE VPW	No	Off	EGR, 2nd Air, Heated Catalyst	None	None		8,412		Y		Car	Aug-03	3701	Lbs		Auto w/o OD		
SAE VPW	No	Off	Heat Catalyst, 2nd Air	None	None		57,229	Miles	Y		Car	Aug-96	3890	Lbs	FWD	Auto W/OD		
SAE VPW	No	Off	EGR, Heat Catalyst, 2nd Air	None	None		63,143	Miles			Car	Mar-01	3981	Lbs	FWD	Auto w/o OD		
ISO 9141	No	Off	Evap System, Heated Catalyst	None	None		75,475		Y		Van	Oct-98	5410	Lbs	FWD	Auto w/o OD		
							128,220	Miles	Y		Car	Jul-94	4310	Lbs	FWD	Auto w/o OD		
SAE PWM	No	Off	EGR, Heated Cat, 2nd Air	None	None		11,662	Miles	Y		Truck	Jul-03	4740	Lbs	RWD	Auto W/OD		
9141	No	Off	Heat Catalyst, 2nd Air	None	None		6,337		Y			Feb-04	2730	Lbs	FWD	Auto w/o OD		
							106,185		Y		Car	May-95	3505	Lbs	FWD	Auto w/o OD		
ISO 9141	No	Off	EGR, Heated Catalyst, 2nd Air	None	None		131,762	Miles	Y		Van	May-00	5250	Lbs	FWD	Auto W/OD		
							178,757	Miles	Y		Car	Feb-87	3528	Lbs	FWD	Auto w/o OD		
VPW	No	On	2nd Air	P1870 tran	P1870 transmission		133,428	Miles	Y		Car	Jan-97	4489		FWD	Auto W/OD		
SAE PWM	No	Off	Evap System, Heated Catalyst	None	None		98,555	Miles	Y		Car	Nov-95	4079	Lbs	FWD	Auto W/OD		
							61,498	Miles	Y		Truck	Jun-89	6250	Lbs	RWD	Manual	4	
							220,817				Car	Apr-93	3301		FWD		5	
KW2000	No	Off	Heated Catalyst, 2nd Air	None	None		22,357	Miles	Y		SUV	Nov-02	4123	Lbs	RWD	Auto W/OD		
							Unable to read		Y		Car	Jul-86	Unable to read		RWD	Auto w/o OD		
SAE PWM	No	Off	None	None	None		107,408		Y		Car	Aug-99	3375		FWD	Manual	5	
	No	Off	None	None	None		61,399	Miles	Y		Car	Oct-00	4275		FWD	Auto w/o OD		
							147,558	Miles	Y		Truck	Nov-85	4950		RWD	Manual	4	
							73,824	Miles			Truck	Unreadable	Unreadable		RWD, On-demand	Auto W/OD		
							84,899	Miles	Y		Car	Dec-91	3415	Lbs	FWD	Auto w/o OD		
VPW	No	Off	Heat Catalyst, 2nd Air	None	None		120,904	Miles	Y		Car	Jun-97	3892	Lbs	FWD	Auto w/o OD		
							146,953	Miles	Y		Car	Sep-94	3481	Lbs	FWD	Auto W/OD		
SAE VPW	No	Off	Heated Catalyst	None	None		57,813		Y		Car	Apr-01	4452	Lbs	FWD	Auto W/OD		
SAE PWM	No	Off	Heated Catalyst, 2nd Air	None	None		91,846		Y		Car	May-98	4687	Lbs	FWD	Auto W/OD		
SAE VPW	Yes	On	Evap System, Heated Catalyst	P0130, P4	None		288,775		Y		Car	Nov-95	3505	Lbs	FWD	Auto W/OD		
ISO 9141	No	Off	EGR, Heated Catalyst, 2nd Air	None	None		80,342	Miles	Y		Car	Dec-01	4295	Lbs	FWD	Auto w/o OD		
							185,872		Y		Car	?	4995	Lbs	RWD	Auto w/o OD		
							69,357	Miles	Y		Car	No sticker	No sticker		FWD	Auto W/OD		
							235,460		Y		Van	Mar-90	5850	Lbs	RWD	Auto W/OD		
ISO 9141	Yes	On	Heated Catalyst, 2nd Air	P0133			81,768	Miles	Y		Car	Feb-96	4340		FWD	Auto w/o OD		
							88,207	Miles	Y		Car	Sep-93	4310	Lbs	FWD	Auto W/OD		
SAE VPW	No	Off	Evap System, Heat Catalyst	P0341 can	None		170,219	Miles	Y		Car	Oct-96	3354		FWD	Auto w/o OD		
							70,386		Y		Car	Apr-95	4635	Lbs	FWD	Auto W/OD		
							118,171	Miles	Y		Car	Dec-88	4915	Lbs	FWD	Auto W/OD		VIN - Blank
ISO 9141	Yes	On	Heated Catalyst, 2nd Air	P0172, P1	P1491		117,932	Miles	Y		Van	Jan-00	5565	Lbs	FWD	Auto W/OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
SAE PWM	No	Off	Evap System, Heated Catalyst,	None	None		100,945	Miles	Y		Car	Sep-94	5417	Lbs	RWD	Auto W/OD		
							24,712		Y		Truck	Aug-88	6250	Lbs	RWD	Manual	5	
							127,776		Y		Car	Jun-94	5438	Lbs	RWD	Auto W/OD		
SAE VPW	No	Off	Heated Catalyst, 2nd Air	P1621	None		75,714	Miles	Y		Car	Oct-97	3856	Lbs	FWD	Manual	5	
SAE VPW	No	Off	Heated Catalyst, 2nd Air, O2 Se	None	None		164,867	Miles	Y		Car	Mar-96	4150	Lbs	FWD	Auto W/OD		
SAE VPW	No	Off	EGR, Heated Catalyst, 2nd Air	None	None		30,880	Miles	Y		Truck	Oct-01	7000	Lbs	RWD	Auto w/o OD		
VPW	No	Off	None	None	None		169,526	Miles	Y		Car	Mar-96	3510	Lbs	FWD	Auto w/o OD		
							49,549	Miles	Y		SUV	Feb-90	6050	Lbs	RWD	Auto W/OD		
ISO 9141	No	Off	Heated Catalyst, 2nd Air	None	None		77,793		Y		Car	Sep-96	3915	Lbs	FWD	Auto W/OD		
							258,730		Y		Car	May-90	4167	Lbs	FWD	Auto W/OD		
ISO 9141	No	On	Evap System, EGR, Ox Sensor	P0411, P1	None		38,308		Y		Car	Jul-99	3616	Lbs	FWD	Manual	5	
oil, no V1.						No OBD II	106,984		Y		Car	Feb-95	3457	Lbs	FWD	Auto w/o OD		
oil added.						No OBD	128,817	mi	Y		Truck	Oct-75	7500	Lbs	FWD	Auto w/o OD		
SAE VPW	N	Off	None	None	None		90,219	mi	Y		Car	May-99	4535	Lbs	FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		74,582	mi	Y		Van	Oct-99	5565	Lbs	FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		82,918		Y		Car	May-97	3915	Lbs	FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		168,860	mi	Y		Van	May-98	5350	Lbs	FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		62,342	mi	Y		Car	Jul-00	4035	Lbs	FWD	Auto w/OD		
8 mpg.						No OBD	220,013		Y		Car	1990	Unknown		FWD	Auto w/OD		
fuel mileage.							107,975	mi	Y		Car	May-95	3505		FWD	Auto w/o OD		
an ISO 9141	N	Off	None	None	None		96,428		Y		Van	Feb-97	5380	Lbs	FWD	Auto w/o OD		
n, 16.7 mpg.						No OBD	123,567	mi	Y		Car	Jun-89	3605		FWD	Auto w/o OD		
ISO 9141		Off	None	None	None		85,178				Van	Aug-99	5100	Lbs	FWD	Auto		
SAE PWM	N	Off	None	None			29,493	mi	Y		Car	Feb-02	4684		FWD	Auto w/OD		
							XX5778		Y		Truck	1979	6900	Lbs		Auto w/o OD		
VPW	N	Off	None	None	None		79,917	mi	Y		Car	Apr-99	3983	Lbs	FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		140,462	mi	Y		Car	Oct-95	3440		FWD	Manual	5	
SAE VPW	N	Off	None	None	None		178,387		Y		Car	Nov-95	3090		FWD	Auto w/o OD		
VPW	N	Off	None	None	None		79,171	mi	Y		Car	1998			FWD	Auto w/OD		
SAE VPW	N	Off	None	None	None		58,079		Y		Car	Aug-96	3890		FWD			
VPW	N	Off	None	None	None		11,323	mi	Y		Car	Mar-03	4453		FWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		95,983	mi	Y		SUV	Jun-99	6400	Lbs		Auto w/OD		
ISO 9141	Y	On	None	P0304	None		118,202	mi	Y		Car	Jan-99	3330	Lbs	FWD	Manual	5	
ISO 9141	N	Off	None	P0320, P0306			137,044		Y		SUV	Apr-98	4900	Lbs	RWD	Manual	5	
294.							179,113	mi	Y		SUV	Sep-94	5300	Lbs	On-demand 4WD	Auto w/OD		
ISO 9141	N	Off	None	P1456	None		84,167		Y		Car	Apr-00	3990	Lbs	FWD	Auto w/o OD		
3,805.							162,618	mi	Y		SUV	Mar-95	5280		On-demand 4WD	Auto w/OD		
SAE VPW	N	Off	None	None	None		51,713	mi	Y		Car	Aug-00			FWD	Auto w/o OD		
SAE VPW	N	Off	None	None	None		107,039	mi	Y		Car	Jul-97	3992	Lbs	FWD	Auto w/OD		
pg 17, 365.						No OBD II	93,661	mi	Y		Car	Dec-89	4057		FWD	Auto w/o OD		
SAE VPW	N	Off	None	None	None		44,243	mi	Y		Car	Apr-01	3326		FWD	Auto w/o OD		
ISO 9141	N	Off	None	None	None	Pending Code	51,756	mi	Y		Car	Jan-01	3990		FWD	Auto w/o OD		
							109,284	mi	Y		Car	Aug-90	5547	Lbs	RWD	Auto w/o OD		Odometer - 109,284
ISO 9141	N	Off	None	P0138		Confirmed Co	97,507	mi	Y		SUV	Mar-97	4360	Lbs	RWD	Manual	5	
n: 27.6 mpg. Duplicate test see 568A below.						No OBD II	131,858	mi	Y		Car	Jul-94	4310		FWD	Auto w/o OD		
uplicate test see 568 above.								mi	Y		Car	Jul-94	4310	Lbs	FWD	Auto w/o OD		Odometer - nothing
pg. oil dirty.						No OBD II	124,968		Y		Truck	Mar-95	4900		FWD	Auto w/o OD		
SAE VPW	N	Off	None	P0731	None		98,556		Y		Car	Feb-99	3403		FWD	Auto		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
3; 11.194 mpg						No OBD II	144,926		Y		Car	May-95	4669		FWD	Auto w/OD		
3a SAE VPW	N	Off	None	None	None		48,135	mi	Y		Truck	Nov-01	6200	Lbs	RWD	Auto w/OD		
33 SAE VPW	N	Off	None	None	None		33,740	mi	Y		Car	Apr-01	4470	Lbs	RWD	Auto w/OD		
33; PWM	N	Off		None	None		93,625	mi	Y		Truck	Jun-00	6350	Lbs	RWD	Auto w/o OD		
3e 21.7							132,317	mi	Y		Car	Nov-90	3455	Lbs	FWD	Auto w/o OD		
3e mileage: 10.051						None	168,134	mi	Y		Car	May-95	4545	Lbs	FWD	Auto w/o OD		
3a 9141	N	Off	None	None	None		137,485	mi	Y		Van	May-00	5250		Auto			
33; ISO 9141	N	Off	None	None	None		79,222	mi	Y		Van	Oct-98	5410	Lbs	FWD	Auto w/o OD		
33; VPW	N	Off	None	None	None		67,283	mi	Y		Car	Mar-01	3981	Lbs	FWD	Auto w/OD		
33; 2000 KW	N	Off	None	None	None		29,510		Y		SUV	Nov-02	4123	Lbs	On-demand 4WD	Auto w/o OD		
3a age: 10.369						None	92,169		Y		Car	Apr-94	4407	Lbs	FWD	Auto		
3e age: 21.617						No OBD II	181,369	mi	Y		Car	Apr-94	4273	Lbs	FWD	Auto w/o OD		
3e 7.781						None	139,293	mi	Y		Car	Aug-94	4899	Lbs	FWD	Auto w/OD		
No paper work filled out. Seems to have OBDII but no code supplied. Dyne only vehicle. Con							177,915	mi	Y		Car	Feb-93	4449	Lbs	FWD	Auto w/OD		
						Not Available	146,289		Y		Car	Jun-95	4521		RWD	Auto w/OD		
3g 18.13						None	147,310		Y		Van	Apr-93	5140	Lbs	FWD	Auto w/OD		
3g 9.97						None	145,299		Y		Van	Nov-88	4940	Lbs	FWD	Auto w/OD		
3g 16.45. Gas gauge does not work but it is full, trip can go to 290 before it runs out.							77,513	mi	Y		Truck	Jul-88	3940	Lbs	RWD			
3g 8.922; filename MO_319EXL_PRECOND2.xml							179,723	mi	Y		Car	Aug-94	5194	Lbs	FWD	Auto w/o OD		
3; 17.19						None	164,552	mi	Y		Van	Sep-91	5260	Lbs	RWD	Auto w/OD		
3; 10.8						None	124,169	mi	Y		Van	Feb-94	5126	Lbs		Auto w/OD		
3; 23.890						None	104,073	mi	Y		Car	Jan-95	4079	Lbs	FWD	Auto		
3; 03; mpg 11.55						None	145,942	mi	Y		Car	Dec-93	4486	Lbs	FWD	Auto w/o OD		
3; mpg SAE VPW	N		None		P1100/P07	None	162,870	mi			Van	Apr-89	4870	Lbs	FWD	Auto		
3; er J04-SE06					No OBD II		124,539	mi	Y		Truck	Dec-95	6200	Lbs	Full-time 4WD	Auto w/OD		
							70,388	mi	Y		Car	Aug-86	3660		FWD	Auto w/o OD		
3; -SE03						None	86,123	mi	Y		Car	Jul-72	4720		RWD	Auto w/o OD		
3; 11.515						None	36,991	mi	Y		Car	Jul-77	5369	Lbs	RWD	Auto		
3; mpg 8.752						No OBD - con	109,585	mi	Y		SUV	Jun-96	5420	Lbs	Full-time 4WD - C	Auto w/o OD		
3; mpg 20.9						No OBD II	133,974		Y		Truck	Jun-89	4165		FWD	Auto w/o OD		
3; 0.083						No OBD II	207,257	mi	Y		Car	Jun-88	3090		FWD	Manual	5	
3; g ISO 9141	Y		None	None	None		103,057	mi	Y		SUV	Sep-97	5300	Lbs	On-demand 4WD	Auto w/o OD		
3; 14 9141	N		None	None	None		79,822	mi	Y		Car	May-96	3449	Lbs	FWD	Auto w/o OD		
3; y; mpg 7.5						No OBD II	?		Y		Car	Apr-79	5108		FWD	Auto w/o OD		
3; 9 9141	N		None	None	None		118,345		Y		Van	Jul-96	5430	Lbs		Auto w/o OD		
3; mpg 18.1						No OBD II	101,082		Y		Truck	Jan-92	4460		FWD	Auto w/o OD		
3; oil dirty; mpg 13.78. 2/1/05 - flow meter K04-SE03; oil dirty; mpg 7.85.							97,116		Y		Car	Aug-90	4740		FWD	Auto w/o OD		
3; mpg 16.2. PEMS only - was dyne testable but he did not want to leave it for both.							73,983	mi	Y		Truck	Sep-89	4140		RWD			
3; g SAE VPW	N		None	None	None		4,522	mi	Y		SUV	Oct-03	5750	Lbs	Full-time 4WD	Auto w/o OD		
3; Jean; flow meter I04-SE08; mpg 17.716.						No OBD II	232,090	mi	Y		Truck	Mar-87	4400	Lbs	FWD	Manual	5	
3; 10.26							126,028	mi	Y		Car				FWD	Auto w/OD		
3; mpg 8.13							82,250	mi	Y		Truck	Nov-83	5600	Lbs	RWD	Auto w/OD		
3; 13 SAE PWM	N		None	None	P0171	Pending Code	118,462	mi	Y		Truck	May-97	4680	Lbs		Manual	5	
3; 10 SAE VPW	N		None	None	None		51,855	mi	Y		Truck	Nov-95	4200	Lbs	FWD	Manual	5	
3; 10 SAE PWM	N		None	None	None		14,705	mi	Y		Van	Sep-03	5660	Lbs	FWD	Auto w/o OD		
3; g 8.514						None	85,899	mi	Y		SUV	Sep-94	5400	Lbs	On-demand 4WD	Auto w/o OD		
3; mpg 15.40. PEMS only - too long for dyne.						No OBD II	139,565	mi	Y		Truck	Jun-94	6800		FWD	Auto w/o OD		
3; 1 ISO-9141	N		None	None	P0300	Pending code	59,726		Y		Van	Jan-01	5250	Lbs	FWD	Auto w/OD		
3; 25.642							80,566	mi	Y		Car	Aug-94	3680	Lbs	FWD	Auto w/o OD		
3; 10 ISO 9141	N		None	None	None		112,513	mi	Y		Truck	Sep-97	4700	Lbs	Full-time 4WD	Auto		
3; 1 9141	N	Off	None	None	None		111,485	mi	Y		Car	Jun-96	4703		FWD	Auto w/OD		
3; 1 SAE PWM	N		None	None	None	Could not con	26,398	mi	Y		Car	May-02	4684	Lbs		Auto w/OD		
3; 1 SAE VPW	N		None	None	None		65,322	mi	Y		Car	2000	4635	Lbs	FWD	Auto w/OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)											
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
21.748						None	210,281	mi	Y		Car	Jun-93	4405	Lbs	FWD/RWD	Auto w/OD		
eter H04-SE08. PEMS only too long for dyne.							6,060	mi			Truck	Sep-88	5450	Lbs	RWD	Auto w/OD		
mpg 8.685							17,149	mi	Y		Van	Jul-92	5400	Lbs		Auto w/o OD		
12.09						None	187,394	mi	Y		SUV				Full-time 4WD	Auto w/OD		No door jamb sticke
EN PWM	N	Off	Evap System/None	None	None	Evap not com	107,196	mi	Y		Truck	Sep-00	6500	Lbs		Auto w/OD		
k: mpg 9.050							124,688	mi	Y		Car	Mar-92	3315	Lbs	FWD	Auto w/OD		
7.52						None	88,587	mi	Y		Car	Oct-81	5013	Lbs	RWD	Auto		
03 9141	N	Off	None	None	None		19,453	mi	Y		SUV	Sep-02	6085	Lbs	On-demand 4WD	Auto w/OD		
mp 9141	N		None	None	None		108,830	mi	Y		Car	Jul-98	4020	Lbs	FWD	Auto w/o OD		
1 SAE VPW	N		None	None	None		34,223	mi	Y		Car	Nov-01	4628	Lbs	FWD	Auto w/o OD		
q 21.92. License number different from folder (folder says 487 GPK).							200,807	mi	Y		Car		3897	Lbs	FWD	Auto w/o OD		
10.76. Make - nothing listed. PEMS only - would not shift out of park when not running - could							205,876	mi	Y		Van	Feb-93	5950			Auto w/OD		
3: mpg 9.506						None	213,485	mi	Y		Van	Dec-91	4940	Lbs	FWD	Auto w/o OD		
1 9141	N	Off	None	None	None		80,570	mi	Y		Van	May-98	5410	Lbs	FWD	Auto w/OD		
mpg 16.17							188,044	mi	Y		Car	Sep-90	5478	Lbs	FWD	Auto w/OD		
r: mpg 17.34							87,208	mi	Y		Truck	Nov-94	4300	Lbs	RWD	Manual	5	
mp SAE PWM	N		None	None	None		47,470	mi	Y		Car	Oct-00	4684		FWD	Auto w/OD		
mp 9141	N	On	None	P1456	None	Confirmed Co	101,901	mi	Y		Car	Nov-96	3915		FWD	Auto w/o OD		
15 SAE VPW	N		None	None	P0700/P11	Pending Code	46,702		Y		Truck	Jul-96	6100	Lbs	Full-time 4WD	Auto w/OD		
mpg 15.45							130,513	mi	Y		Car	Jun-94	5438	Lbs	RWD	Auto w/OD		
g 9.917						None	93,417	mi	Y		Truck	Aug-94	6400	Lbs	Full-time 4WD	Auto w/o OD		
20.505						None	48,696	mi	N		SUV	Jun-92			RWD	Manual	5	
1 9141	N	Off	None	None	None		84,644	mi	Y		Car	Apr-92	3657	Lbs	FWD	Auto w/o OD		
1 VPW	N	Off	None	None	None		76,197	mi	Y		SUV	Dec-97	4165	Lbs	On-demand AWD	Auto		
y:							88,892	mi	Y		SUV	Sep-99	7300	Lbs	RWD/On-demand	Auto w/OD		
mpg 18.507						None	114,219	mi	Y		Car	Jul-92	4130		On-demand AWD	Auto w/o OD		
1 SAE VPW	N	Off	None	None	None		49,320	mi	Y		Van	Aug-02	5357	Lbs		Auto w/o OD		
3: SAE-PWM	N	Off	None	None	None		48,200	mi	Y		Truck	Jul-98	2222		FWD	Auto w/o OD		
1 VPW	N	Off	None	P0306		Confirmed co	69,002	mi	Y		SUV	Jun-96	6800	Lbs	Full-time 4WD	Auto w/OD		
h 9141	N	Off	None	None	None		161,263	mi	Y		Van	May-95	5350		FWD	Auto w/o OD		
8: ISO 9141	Y	On		P0455	None		88,505	mi	Y		Truck	Aug-99	2223			Auto w/OD		
ISO 9141	N	Off	None	None	None		64,146		Y		Car	Jul-98	2182		FWD	Manual	5	
1: mpg 28.33						No OBD II	103,059	mi	Y		Car	Sep-94	3555	Lbs		Auto w/o OD		
20.311						None	138,981	mi	Y		Car	Oct-94	4472	Lbs	FWD	Auto w/OD		
g 16.235. No HC reading in road test screen upon returning from precond run.						None	131,660	mi	Y		Car	Sep-87	5475	Lbs	RWD	Auto w/OD		
SE VPW	N	Off	None	None	None		46,354	mi	Y		SUV	Apr-01	4960	Lbs	RWD	Auto w/OD		
el VPW	N	Off	None	None	None		61,160	mi	Y		Van	Nov-01	5357	Lbs	FWD	Auto w/OD		
pg 13.11						No OBD II	134,775	mi	Y		Truck	Mar-92	6250	Lbs	Full-time 4WD	Auto w/o OD		
1 9141	N	Off	None	None	None		28,700	mi	Y		SUV	Feb-02	6400	Lbs	Full-time 4WD	Auto w/o OD		Drive Type - AWD 4
1 VPW	N	Off	None	None	None		75,537	mi	Y		Van	Mar-01	5600	Lbs		Auto w/o OD		
g VPW	N	Off	None	None	None		67,091	mi	Y		Car	Jun-00	4714	Lbs	FWD	Auto w/OD		
mp 9141	N	Off	None	None	None		49,767		Y		Truck	Dec-97	4570	Lbs	RWD	Manual	5	
g VPW	Y	On	None	P0101/P04	P0401	Confirmed co	106,227	mi	Y		Truck	Feb-01	4900	Lbs	On-demand 4WD	Auto w/o OD		Drive Type - 2Hi 4H
mpg 15.71. Dyne test voided - car was steaming, safety issue. Oil leak.							No OBD II	?	Y		Car	Feb-86	5550		FWD	Auto w/o OD		Odometer Reading
8: mpg 9.6						No OBD II	155,898	mi	Y		Car	Not listed			FWD	Auto w/o OD		
pd VPW	N	Off	None	None	None				Y		Truck	Sep-03	5000	Lbs	Full-time 4WD	Manual	5	Odometer Reading
9.6						None	109,036	mi	Y		Van	Apr-95	4740	Lbs	FWD	Auto w/OD		
mp 9141	N	Off	None	None	None		122,222	mi	Y		Van	Sep-97	5410	Lbs		Auto w/o OD		
at PWM	N	Off	None	None	None		18	mi	Y		Truck	Aug-01	5080		RWD/On-demand	Auto w/OD		
el year - No year listed.						None	41,466	mi	Y		Car	Jan-94	3825	Lbs	FWD	Auto w/o OD		Odometer Reading

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OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments		Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
g PWM	N	Off	None	None	None			126,843	mi	Y		Truck	Dec-95	4700	Lbs	RWD	Manual	5	
7.749						None		203,058	mi	Y		Car	Nov-94	4635	Lbs	FWD	Auto w/OD		
odney & Marc. Needs to be run on PEMS after dyne 2/19 also pics fuel & oil samples. No PEN								63,903		Y		Truck	Sep-93	4200/1905		RWD	Auto w/OD		
4-SE08. PEMS only too long for dyne.								104,721	mi	Y		Truck	Aug-93	6200	Lbs	RWD	Auto w/OD		
ar #104-SE03								39,452	mi	Y		Car	Mar-93	4692	Lbs	FWD	Auto w/OD		
4-SE08								74,419	mi	Y		Car	Nov-92	4777	Lbs	FWD	Auto w/OD		
mpg 18						No OBD II		126,807		Y		Car	Unable to Read	Unable to Read		FWD	Auto w/o OD		
te PWM	N	On	None	P1537/P1538/P0301/P	Confirmed co			146,235	mi	Y		Van	Apr-97	5220	Lbs		Auto w/OD		
19.396. Dyne 3/11/05.						None		197,078	mi	Y		Car	Dec-92	4440	Lbs	FWD	Auto w/o OD		
14.84. Round 2 driveway only. Dyne test 3/17/05 mpg 25,045						None		24,583	mi	Y		Car	Jun-93	3825	Lbs	FWD	Auto w/o OD		Odometer Reading
VPW	N	Off	None	P0146 (3/240, P0700 (2/21)				94,342	mi	Y		Truck	Nov-95	5300	Lbs	On-demand 4WD	Auto w/o OD		
VPW	N	Off	None	None	None			30,315	mi	Y		Van	May-02	5600	Lbs	FWD	Auto w/o OD		
SAE VPW	N	Off	None	None	None			74,703		Y		Truck	Jul-95	4600			Auto w/o OD		
16.44						None		287,798	mi	Y		Car	Jul-07	4115	Lbs	FWD	Manual	5	
23.627						None		78,736	mi	Y		Car	Apr-95	3808	Lbs	FWD	Auto w/OD		
3. ISO 9141	N	Off	None	P0720	None			212,969		Y		Van	Aug-95	2746		FWD	Auto w/o OD		
25. Driveway only.						None		122,875	mi	Y		Truck	Sep-94	4740	Lbs	RWD	Auto w/OD		
11. mpg 24.0						No OBD II		199,269		Y		Car	No sticker	No sticker		FWD	Auto w/o OD		
mpg 15.70						None		86,697		Y		Truck	Jun-95	4400	Lbs		Manual	5	
22.216. (No 2.5" flow meters available.)						None		166,354	mi	Y		Van	May-93	5040	Lbs	FWD	Auto w/o OD		
SAE 9141	N	Off	None	None	None			131,298	mi	Y		Van	Oct-94	5040	Lbs	FWD	Auto w/OD		
12.111								166,799		Y		Van				FWD	Auto w/OD		
VPW	N	Off	None	None	None			81,364	mi	Y		Car	Jun-78	5150	Lbs	RWD	Auto w/o OD		
								56,622	mi	Y		Car	Aug-00	3370	Lbs	FWD	Auto w/o OD		
								92,185	mi	Y		Car	Jan-93	4692	Lbs	FWD	Auto w/o OD		
1 J1850PWM	N	Off	None	None	None			44042	mi	Y		Truck	Mar-02	4528	Lbs	Full-time 4WD	Auto w/OD		
Have to fix muffler when done with dyne & perms. Oil dirty. mpg 15.715; fm #H04-SE08.								65,854	mi	Y		Car	Jul-79	5297		RWD	Auto w/o OD		
12 9141	N	Off	None	None	None			75,052	mi	Y		Car	Dec-97	4035	Lbs	FWD	Auto		
1 PWM	N	Off	None	None	None			41,183	mi	Y		Van	Jul-01	7000	Lbs	RWD	Auto w/OD		
4-SE08								178,447	mi	Y		SUV	Feb-93			RWD		5	
SE13								146,852	mi	Y		Car	Dec-93	3513	Lbs	FWD	Auto		
VPW	N		None	None	None			133,068	mi	Y		Car	Sep-97	3485	Lbs	FWD	Auto w/OD		
1 PWM	N	Off	None	None	None			97,585	mi	Y		Car	Jul-97	4687	Lbs	FWD	Auto w/OD		
2 PWM	Y	On	None	P1450/P0302	Confirmed Co			99,271	mi	Y		Van	Jun-97	5220	Lbs	FWD	Auto w/OD		
2 9141	N	Off	None	None	None			29,580	mi	Y		Car	Feb-98	4550	Lbs	FWD	Auto w/o OD		
-SE08								47,917	mi	Y		SUV	Jun-93	5120	Lbs	RWD	Auto w/OD		
13.2.6						None		5,856	mi			Car	Feb-79	4313	Lbs	RWD	Auto w/o OD		A/C? - ?
-SE03. Driveway.								163,807	mi	Y		SUV	Nov-87	Unable to read		RWD	Auto w/OD		
ISO 9141	Y	On	Catalyst	1794/P0505				85,890	mi	Y		Car	Oct-97	3485	Lbs	FWD	Auto w/o OD		
32.224. New tailpipe & muffler installed 2/28/05. Gas leak.						None		47,098	mi	Y		Car	Mar-79	2855	Lbs	RWD	Manual	5	
39 VPW	N	Off	None	None	None			65,043	mi	Y		Car	Sep-97	3926	Lbs	FWD	Auto w/OD		
mpg 17.398.						None		116,429	mi	Y		SUV	Feb-93	5500	Lbs	Full-time 4WD	Auto w/OD		
12.5						None		94,772	mi	Y		Car	Jan-77	3203	Lbs	RWD	Manual	5	
50 ISO 9141	N	Off	None	None	None			100,072	mi	Y		Car	Nov-98	3330	Lbs	FWD	Auto w/o OD		
#J04-SE06.								168,083	mi	Y		Car	Aug-88	4122	Lbs	FWD	Auto w/OD		
3. mpg 18.719.						No OBD II		64,563		Y		Car	Mar-78	4528		FWD	Auto w/o OD		
driveway vehicle only - too long for dyne!						No OBD II		165,710	mi	Y		Van	Mar-91	7200		FWD	Auto w/o OD		
1 9141-2	N	Off	None	None	None			125,651	mi	Y		Van	May-96	5445	Lbs	FWD	Auto w/OD		
14.699.						None		18,567	mi	Y		Car	May-90	4458	Lbs	FWD	Auto w/OD		
g 13.785.						None		394	mi	Y		Truck	Aug-87	5450	Lbs	Full-time 4WD	Manual	4	
1 PWM	N	Off	None	None	None			33,672	mi	Y		Truck	Feb-00	4800	Lbs		Auto w/OD		
11.317. PEMS only. Too long for Dyne.						None		70,610	mi	Y		Truck	Apr-89	8800	Lbs	On-demand 4WD	Auto w/o OD		
15.407						None		73,721	mi	Y		Car	Feb-78	5080	Lbs	RWD	Auto w/o OD		

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OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments
VPW	N	Off	None	None	None		145,130		Y		SUV	Dec-96	7300	Lbs	RWD	Auto w/OD		
ISO 9141	N	Off	None	None	None		113,364		Y		Van	Jun-99	2432		FWD	Auto w/o OD		
20.09; mpg driveway 21.767						None	154,224	mi	Y		Van	Aug-91	5040	Lbs		Auto w/o OD		
16.067						None	19,742	mi	Y		Truck	No sticker	No sticker		RWD	Manual	5	
12.492						No OBD II	135,705	mi	Y		Truck	Apr-92	4440		RWD	Manual	4	
PWM	Y	On	None	P0133	P0420	Confirmed Co	203,335	mi	Y		Van	Oct-95	8550	Lbs		Auto w/OD		
22.5. PEMS only. No radiator - will overheat on dyne.							18,484	mi	N		Car	Nov-77	2844	Lbs	RWD	Manual	4	
06; mpg 39.23.						No OBD II	164,184	mi	Y		Car	Feb-89	4047		FWD	Auto w/o OD		
8; mpg 15.16.						No OBD II	23,191	mi	Y		Truck	May-87	5000		FWD	Auto w/o OD		
9141	N	Off	None	None	None		64,126	mi	Y		Car	Jul-99	4180	Lbs		FWD	Auto w/OD	
VPW	N	Off	None	None	None		77,750	mi	Y		SUV	Sep-01	5750	Lbs	On-demand 4WD	Auto w/o OD		
mpg 18.15						None	62,838	mi	Y		Car	Jan-89	5566	Lbs	RWD	Auto w/OD		
22.516						None	139,955	mi	Y		Car	No sticker	No sticker		FWD	Auto w/o OD		
9141	N	Off	None	None	None		117,634	mi	Y		Car	Jun-96	4820	Lbs	FWD	Auto w/o OD		
e safety issues.																		
9141	N	Off	None	None	None		60743	mi	Y		Van	Nov-01	5665	Lbs	FWD	Auto w/o OD		
ISO 9141	N	Off	None	None	None		16,601	mi	Y		Van	Feb-04	5959	Lbs	FWD	Auto w/o OD		
SAE-VPW	N	Off	None	None	None		31712	mi	Y		Van	May-02	5600		FWD	Auto w/o OD		
9141	N	Off	None	None	None		44,743	mi	Y		SUV	Sep-02	5665	Lbs	FWD	Auto		
9141	Y	On	None	P1491/P03	None	Confirmed Co	90,003	mi	Y		SUV	Aug-00	5400		On-demand 4WD	Auto w/OD		
VPW	N	Off	None	None	None		20,779	mi	Y		Van	Jul-02	5400	Lbs	FWD	Auto w/o OD		
9141	N	Off	None	None	None		80,211	mi	Y		Van	Nov-00	5250	Lbs	FWD	Auto		
VPW	N	Off	None	None	None		60,774	mi	Y		Van	Mar-02	5500	Lbs	FWD	Auto		
VPW	N	Off	None	None	None		46,866	mi	Y		Van	Dec-02	5500	Lbs	FWD	Auto w/o OD		
mpg 19.869						No OBD II	97,513		Y		Car	Feb-90	4045		FWD	Auto w/o OD		
21.2						None	162,866	mi	Y		Van	May-89	4870	Lbs		FWD	Auto	
mpg 8.776. Very stop & go & turbo.						No OBD II	248,169	mi	Y		Car	Sep-86	4230		RWD	Auto w/o OD		
S precon.																		
mpg 12.05						None	140,492	mi	Y		Car	Jun-95	3592	Lbs	FWD	Manual	5	
						No OBD II	148,000		Y		Car	Mar-89	4060		FWD	Auto w/o OD		
						No OBD II	128,352		Y		Car	Jan-86	3165		FWD	Auto w/o OD		
14.201							98,966		Y		SUV	May-94	5360	Lbs	Full-time 4WD	Auto w/OD		
ISO 9141	N		None	None	None		66,276	mi	Y		SUV	Jul-00	5300	Lbs	On-demand 4WD	Auto w/OD		
mpg 13.95						No OBD II	112,830	mi	Y		Truck	Nov-86	5930		FWD	Auto w/o OD		
						None	209,194	mi	Y		Car	No sticker	No sticker		FWD	Auto w/o OD		
17.46						None	56,562	mi	Y		Truck	Dec-94	4200		RWD	Manual	5	
25.22. Speedometer not accurate. PEMS only, exhaust leaks.						None	220,628	mi	Y		Truck	Oct-87	5100	Lbs	On-demand 4WD	Manual	5	
19.260. Window - drivers side front hard to put down & up. Hood - have to open with pliers						None	136,296	mi	Y		Van	Apr-90	4592	Lbs	FWD	Auto w/o OD		
8; mpg 9.69. Front left tire needs air in it.						No OBD II	376,819	mi	Y		Truck	Jul-77	6400	Lbs	FWD	Auto w/o OD		
17.09						None	169,851	mi	Y		Car	Sep-89	4488	Lbs	FWD	Auto w/o OD		
ster H04-SE02; mpg 21.889. PEM after Dyne.						No OBD II	117,015	mi	Y		Car	could not read	Could not read		FWD	Auto w/o OD		
mpg 16.129. Linkage in steering column is worn out.						No OBD II	185,376	mi	Y		Car	Mar-90	4416	Lbs	FWD	Auto w/o OD		
3; mpg 18.011						No OBD II	123,624		Y		Van	Not listed	Not listed		FWD	Auto w/o OD		
mpg 17.897. Have to start with a screwdriver with the lights on.						None	215,899	mi	Y		Van	Nov-88	5600	Lbs	FWD	Auto w/OD		
16.933						None	61,431	mi	Y		Van	Nov-87	4930	Lbs	FWD	Auto w/o OD		
10.570. Do not set emergency brake!						None	85,487	mi	Y		Truck	Jun-82	6500	Lbs	Full-time 4WD	Manual	5	
18.72						None	148,951	mi	Y		Car	Jul-90	4119	Lbs	FWD	Auto w/OD		
8; mpg 12.631. Gas gauge does not work has \$10 of gas in it. Only drive in circle D. When rev						No OBD II	140,670		Y		Truck	Jun-88	5450		FWD	Auto w/o OD		
5.46						No OBD II	262,300		Y		Truck	May-89	5350		On-demand 4WD	Auto w/o OD		
3.30						No OBD II	98,988		Y		Car	Nov-88	3621		FWD	Auto w/o OD		
mpg 19.359						No OBD II	161,373		Y		Car	Dec-88	3682			Auto w/o OD		

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)												
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details	Comments	
g 26.085						None	87,893	mi	Y		Car	Oct-82	2980	Lbs	FWD	Manual	5		
3: mpg 22.38						No OBD II	109,922		Y		Car	Oct-89	4057		FWD	Auto w/o OD			
						None	209,384		Y		Car	Aug-88	3959		FWD	Auto w/o OD			
g 13.295. Passenger window roll down when opening door. Cold start pump gas first othe						No OBD II	45,370	mi	Y		Car	Aug-79	4568	Lbs	RWD	Auto w/o OD			
7.181. Needs to be PEMed when done on dyne.						No OBD II	139,424	mi	Y		Car	Nov-90	4429		FWD	Auto w/o OD			
g 13.028. Fuel collected - sheet says no and envelope says yes. Do not roll windows down						No OBD II	327,203	mi	Y		Van	No sticker	No sticker			Auto w/o OD			
12.7						None	4,994	mi	Y		SUV	Aug-89	6050	Lbs		Auto w/OD			
20.308						None	97,627	mi	Y		Truck	Oct-82	4250	Lbs	RWD	Manual	5		
g 33.98 mpg						No OBD II	187,050		Y		Car	Oct-88	5386		FWD	Auto w/o OD			
- participant needs vehicle.							146,845	mi			Car				FWD				
g 11.85 mpg. New muffler and tail pipe last Monday. Fuel Collected? Sheet says yes and enve						No OBD II	574,687		Y		Truck	Not listed	6400	Lbs		Manual	4		
14.234. PEMS only too long for dyne. Did driveway too.						None	30,666		Y		Truck	Not readable	6000	Lbs		Auto w/OD			
g 12.757						None	61,800	mi	Y		Car	No sticker	No sticker			Auto w/o OD			
63 mpg						None	94,729		Y		Truck	Nov-85	4900		Full-time 4WD	Manual	5		
15.261. Need to take pictures of vehicle. Needs to be PEMED after Dyne. Needs to be taken						None	72,987	mi	Y		Truck	Mar-90	4420		RWD	Manual	5		
8: 13.70 mpg. Fuel gauge does not work only fuel tank (front) works.						No OBD II	62,939		Y		Truck	Sep-87	6250		Full-time 4WD	Manual	5		
g 19.376						None	138,226	mi	Y		Car	Nov-89	4122	Lbs	FWD	Auto			
g 19 mpg						No OBD II	220,953	mi	Y		Car	Inable to rea	Unable to read		FWD	Auto w/o OD			
g 12.227						No OBD II	98,784	mi	Y		Truck	Apr-83	5200		FWD	Manual	3		
8: mpg 16.75						No OBD II	97,153		Y		Truck	May-88	6250		FWD	Auto w/OD			
3.553						No OBD II	94,539		Y		Car	Mar-88	4030		FWD	Auto w/o OD			
3: mpg 26.146. Vehicle license different from envelope.						No OBD II	90,855	mi	Y		SUV	Dec-91	5100		On-demand 4WD				
g 11.37						No OBD II	58,223	mi	Y		Car	Inable to rea	Unable to read		FWD	Auto w/o OD			
431. Take to B&H.						No OBD II	73,439	mi	Y		Truck	Jun-78	6150		RWD	Auto w/o OD			
15.211						None	169,285	mi	Y		Truck	Mar-87	5080		On-demand 4WD	Manual	5		
7.181						No OBD II	87,003	mi	Y		Car	Oct-86	4705		FWD	Auto w/o OD			
15.874						None	86,086	mi	Y			No sticker	No sticker		RWD	Auto w/o OD			
7.689						None	94,171	mi	Y		Car	Jul-73	5570	Lbs	RWD	Auto			
18.923. Rebuilt transmission 2 months ago. Timothy Tankard picked up 1990 F150 that we tes						None	38,815	mi	Y		Truck	Jun-90	6250	Lbs	RWD	Auto w/OD			
15.169						None	31,245		Y		Car	Jun-80	4405	Lbs	RWD	Auto w/o OD			
12.613						None	27,420	mi	Y		Van	Sep-88	6600	Lbs	RWD	Auto w/OD			
16.8						None	153,390	mi	Y		SUV	Unknown ca	4724	Lbs	On-demand 4WD	Auto w/OD			
11 VPW	Y	On	None	None	None		10,184	mi	Y		Van	Oct-02	5600	Lbs		Auto w/o OD			
g 18.114						None	28,857	mi	Y		Truck	Jan-89	4080	Lbs		Manual	5		
20.7						None	68,802	mi	Y		Car	Not legible	Not legible		RWD	Auto w/o OD			
23.698						None	32,325	mi	Y		Car	Nov-93	3331	Lbs	FWD	Auto w/o OD			
g 11.710						None	45,542	mi	Y		Car	Apr-79	3745		RWD	Manual	5		
SE08, mpg 22.358. Warning: leaking fuel out of carburator. PEMS only air cooled engine.						None	81,747	mi	N		Car	Unknown	1340	Lbs	RWD	Manual	4	VIN - chassis numb	
18.270						None	220,309	mi	Y		Truck	Jun-88	4460	Lbs	RWD	Manual	5		
g 19141-2	N	Off	None	None	None		122,979		Y		Car	Apr-99	3472		FWD	Manual	5		
13.352						None	140,662	mi	Y		Truck	Feb-89	5600	Lbs	RWD	Auto			
-SE03; mpg 20.16						No OBD II	85,441	mi	Y		Car	Oct-89	4453		FWD	Auto w/o OD			
mpg 11.18						No OBD II	85,092	mi	N		Truck	Not listed	Not listed			Manual	4		
g 18.692. Needs oil.						None	182,333	mi	Y		Car	Sep-90	3481	Lbs	FWD	Auto w/o OD			
18.567. Brake light stays on. Gas gauge does not work but does have gas in it. Drivers door s						None	71,459	mi	Y		Car	Dec-89	4034	Lbs	RWD	Auto w/o OD			
16.113						None	64,627	mi	Y		Car	Sep-81	4300	Lbs	RWD	Auto w/o OD			
16.117						None	19,631	mi	Y		Van	Nov-89	4880	Lbs	RWD	Auto w/OD			
1 ISO9141	N		None	None	None		62,848		Y		SUV	Jul-00	4175		Full-time 4WD	Auto w/OD			
2 ISO9141	N		None	None	None		46,861		Y		Car	Nov-00	4180		FWD	Auto w/o OD			
1 SAE-PWM	N	Off	None	None	None		36,201		Y		SUV	Feb-02	4376		FWD	Auto w/o OD			
8: mpg 9.174						No OBD II	60,900		Y		Car	Aug-76	5694		FWD	Auto w/o OD			
1.113						No OBD II	64,075		Y		Car	Jun-84	3994		FWD	Auto w/o OD			
pg 21.170. Off dyne @ 10:30 am - precondition & then ... 3:45 driveway.						None	107,890	mi	Y		Car	Aug-89	4382	Lbs	FWD	Auto w/OD			
23.600						None	133,958	mi	Y		Car	Jan-90	3165	Lbs	FWD	Auto w/o OD			
3.339. Oil below add line. Semtech C03SG02. PEMS only too wide for Dyne.						None	33,238	mi	Y		Van	Jul-86	6600	Lbs	RWD	Auto w/o OD			

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Pre-Testing OBDII Check (ERG)							General Vehicle Info (ERG)										
OBD Comm Protocol	Vehicle on MIL on? (Y/N)	Download MIL status (On/Off)	"Not Rdy" monitors	Confirmed Codes	Pending Codes	Comments	Odometer Reading	Odo units (mi/km)	A/C? (Y/N)	VIN	Veh Type	Mfr Date	Total GVWR	GVWR Units	Drive Type	Trans Type	Trans Details
1.8 (wrong) (truck has major exhaust problems).							58,882		N		Truck	Nov-77	4900		RWD	Auto w/o OD	
3S	PWM	N	Off	None	None		55,293		Y		Car	Jan-98	3485		FWD	Auto w/OD	
							75,915		N		Car	Unk - Door v	Unk		RWD	Auto w/o OD	A/C? - OEM AC ren
g 11.091						None	84,006	mi	Y		Van	Jul-79	6000	Lbs	RWD	Auto w/o OD	
8:	CAN	N		None	None		10,511		Y		SUV	Jan-04	4380			Auto w/o OD	
							6,693		Y		SUV	Jul-04	3800		FWD	Manual	5
4:	CAN	N		None	None		47,640	mi	Y		Van	Feb-03	5550	Lbs	FWD	Auto w/o OD	
g 1:	VPW	N	Off	None	None		143,971		Y		Van	Jul-92	5200	Lbs	FWD	Auto w/OD	
: mpg 16.224							No OBD II				Truck	Feb-95	5450			Manual	5
8:	mpg 15.881						No OBD II				Van	Jun-94	5950		FWD	Auto w/o OD	
14.296							133,309		Y		Van	May-00	5410	Lbs	FWD	Auto w/OD	
10:	ISO9141	N	Off	None	None		93,154	mi	Y		Van	Oct-96	7300	Lbs	On-demand 4WD	Auto w/o OD	
10:	SAE-VPW	N	Off	None	None		137,614		Y		SUV	Oct-97	5250	Lbs	On-demand 4WD	Manual	5
g 1:	9141	N	Off	None	None		115,751	mi	Y		SUV	Oct-97	5250	Lbs	On-demand 4WD	Auto w/OD	
10:	ISO9141	Y	On	EGR	P0440/P1448		107,607		Y		Truck	Oct-97	5200	Lbs	On-demand 4WD	Manual	5
g 13.64							None				Truck	Apr-95	6600	Lbs	RWD	Auto w/OD	
93: mpg 18.836							None				Van	Mar-95	5040	Lbs	FWD	Auto w/o OD	
g 16.238: PEMS only.							None				Van	Nov-91	5950	Lbs	FWD		
: mpg 16.83: PEMS only.							No OBD II				Van	Dec-91	5200		FWD	Auto w/o OD	
: mpg 17.271: PEMS only.							None				Truck	Apr-93	4700	Lbs	Full-time 4WD	Auto w/OD	
1:	SAE-VPW	N	Off	None	None		25,981	mi	Y		Van	Apr-02	5400	Lbs	FWD	Auto w/o OD	
1:	9141	N	Off	None	None		56,429	mi	Y		SUV	Jul-96	4600	Lbs		Manual	5
: mpg 28.6: PEMS only. 28.6 F seems way too high - insufficient time to do another run - will d							No OBD II				Van	Jun-88	6600			Auto w/o OD	
							13139	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13158	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							113170	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							113189	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							113208	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13239	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							xxx	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13266	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13303	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13323	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13352	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							13370	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84450	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84461	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84480	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84507	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84536	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84544	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84578	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84606	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84624	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84651	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84697	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	
							84741	mi	Y		Car	Jun-88	4615	Lbs	FWD	Auto	

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General Veh Info (ERG)																		
No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4	2.2	L	2001		USEPA	LEV	N	N	N	N	Y	Y	Y	Y	1GMXV02.4022	1GMXR0124919	Port Fuel-Injected	Normal
6																		
8	5.2	L	1994		USEPA		Y	N	N	Y	Y	Y	Y	Y	RCR5.988GAEA	RCR1065AYP0A	Unknown	
6	3.5	L	1999		USEPA	NLEV	Y	N	N	Y	Y	Y	Y	Y	RCR5.988GAEA	RCR1065AYP0A	Port Fuel-Injected	Normal
8	5.3	L	2001	OBD II	USEPA	None	Y	N	N	N	Y	Y	Y	Y	1GMXT05.3182	1GMXE011920	Port Fuel-Injected	Normal
4			1995	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	1.9 SEF1		Port Fuel-Injected	Normal
8	351	In ³	1979	No OBD	California		Y	Y	Y	Y	Y	Y	Y	N	5.8M/6.8"B" (1x128)		Carb	Normal
4	2	L	2000	OBD II	USEPA, California, Canada		Y	N	N	Y	Y	Y	Y	Y			Port Fuel-Injected	Normal
4	2.5	L	1990	OBD I	USEPA		Y			Y	Y	Y					Port Fuel-Injected	
	5.4	L			USEPA, California		Y			Y	Y							
4	1590	cm ³	1996	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y			Port Fuel-Injected	Normal
4	91	CID	1991		USEPA		Y	N	N	N	Y	Y	Y	Y			Port Fuel-Injected	Normal
6	2.5	L	2001	OBD II	USEPA, California	TLEV	Y	N	N	Y	Y	Y	Y	Y	1TKXV02.515MA	1TKXL0125PMC	Port Fuel-Injected	Normal
6	3	L	1989	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	KCR3.0T5FBLG	KCRTC	Port Fuel-Injected	
4	2.2	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	N	Y	TGM2.2V86KEK	TGM1046AYMAA	Port Fuel-Injected	Normal
4	2	L	2002	OBD II	USEPA, California	LEVII LEV	N	N	N	N	Y	Y	Y	Y	2HNXV02.0VBP	2HNXR0099AAH	Port Fuel-Injected	Normal
6	4.3	L	1995	OBD I	USEPA		N	N	N	N	Y	Y	Y	Y	S3G4.329FGJ	S3G1089AYMON	Port Fuel-Injected	Normal
6	3.8	L	1988	No OBD	USEPA	N/A	Y	N	N	Y	Y	Y	Y	N	J2G3.8V8XEBO	JBO-2D	Port Fuel-Injected	Normal
6	4	L	1998		USEPA		Y	N	N	N	Y	Y	Y	Y	WCRXT04.02B0	WCRXE0101GCS	Port Fuel-Injected	Normal
4	2.2	L	1990		USEPA		Y	N	N	Y	Y	Y	Y	Y	L1G2.2V5JFG2	LAO-1E	Throttle-body	Normal
6	3.5	L	1999	OBD II	USEPA, California	TLEV	Y	N	N	Y	Y	Y	Y	Y	XCRXV0215V20	XCRXR0101G1D	Port Fuel-Injected	Normal
4	1.9	L	2001	OBD II	USEPA, California	NLEV	Y	N	Y	Y	Y	Y	Y	Y	1GMXV01.9002	1GMXR0080902	Throttle-body	Normal
6	3.8	L	1998	OBD II	USEPA			N	N	Y	Y	Y	Y	Y	WGMXV03.8047	WGMXE0086903	Port Fuel-Injected	Normal
6	3.3	L	2002		USEPA, California	NLEV	Y	N	N	N	Y	Y	Y	Y	2NSXT03.3C5A	2NSXR0120RCA	Port Fuel-Injected	Normal
8			1986	OBD I			Unk	Unk	Unk	Unk	Unk	Y	Y	Unk			Carb	
4	1.9	L	1996	OBD II	USEPA	1996	Y	N	Y	Y	Y	Y	Y	Y	TGM1.9V8GKEK	TGM1035AYPAA	Port Fuel-Injected	Normal
6	3.3	L	1995		USEPA		Y	N	N	N	Y	Y	Y	N	SCR3.328GFEE	SCR1095AYMOA	Port Fuel-Injected	Normal
6	3	L	1994		USEPA		Unk	N	N	N	Y	Y	Y	Y	RFM3.028GDEA	RFM1057BYM0B	Port Fuel-Injected	Normal
4	2.5	L	1995		USEPA		Y	N	N	N	Y	Y	Y	Y	SCR2.578GAEA	SCR1058AYMON, SC	Port Fuel-Injected	Normal
	2.3	L	1989		USEPA						Y		Y		K2G2.3V8XEWO	KAO-2G	Throttle-body	
8	5	L	Not listed		Not listed		N	N		Y	Y	Y	Y		N/A, no sticker	N/A, no sticker	Port Fuel-Injected	Normal
6	3	L	2001	OBD II	California					Y	Y	Y	Y	Y		1TYXR0135AK1		
6	3.3	L	1997		USEPA					N	Y							
6	4.3	L	1995	OBD II	USEPA		Y	Y			Y	Y	Y				Throttle-body	
6	4.3	L	2003	OBD II	USEPA, California	NLEV	Y	N	N	N	Y	Y	Y	Y	3GMXT04.3187	3GMXR0175922	Port Fuel-Injected	Normal
4	289	In ³					Y	Y	Y	N	Unk	N	N	N	N/A	N/A	Carb	Normal
8	5	L	1990		USEPA		Y	N	Y	Y	Y	Y	Y	Y	5.0L-OHM	LFM5.0V5HBG6	Port Fuel-Injected	Normal
4			1999	OBD II	USEPA		Unk	Unk	Unk	Unk	Y		Y	Y			Port Fuel-Injected	Normal
4	2.2		1997	No OBD	USEPA		N	Unk	Unk	Y	Y	Y	Y	Y	VHN22VJGKFK	VHN1090AYMEA	Port Fuel-Injected	Normal
4	2	L	1989	No OBD			Unk	Unk	Unk	Y	Y	Y	Y	Unk	KHN20V2F4F6	89FB	Port Fuel-Injected	Normal
4	2.2	L	1999	OBD II	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y				Normal
6	3	L	2003	OBD II	USEPA			Unk	Unk	Y		Y	Y	Y	2V-Group:3FMXV03	3FMXR011SBAE	Port Fuel-Injected	Normal
6	3.1	L	1998	OBD II	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y			Port Fuel-Injected	Normal
6	3.5	L	2004	OBD II	California	ULEV LDT	Y	Unk	Unk	Y	Y	Y	Y	Y	4HNXT03.51AT	4HNXR0160AAB	Port Fuel-Injected	Normal
6	3.5	L		OBD II							Y	Y	Y	Y		3NSXR0130MAC	Port Fuel-Injected	Normal
6	3.1	L	1998	OBD II	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y	WGMXV03.1041	WGMXE0095904	Port Fuel-Injected	Normal
8	4.6	L	1999	OBD II	USEPA		Y	Unk	Unk	Y		Y	Y	Y	4.6LXFMXR0105BAE	XFMXV04.6VBE, XU7	Port Fuel-Injected	Normal
4				OBD II			Unk	Unk	Unk	N		Y	Y	Y			Port Fuel-Injected	Normal
8	4.9	L	1991	OBD I	USEPA		Unk	Unk	Unk	Y	Y	Y	Unk	Y	MCD, M2G4.9V8X6A7, MBO-2B 4.9 Liter		Port Fuel-Injected	Normal

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General Veh Info (ERG)																		
No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4	1.9	L		OBD II	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y	XGMXV01.9001	XGMXR0080902	Port Fuel-Injected	Normal
6	4	L		No OBD	USEPA		Y	Unk	Unk	Unk	Unk	Y	Y	Y	PFM4.0T5FYXX		Port Fuel-Injected	Normal
6	3.2	L	1999	OBD II	USEPA	Tier 1	Y	Unk	Unk	Y	Y	Y	Y	Y	XSZXT03.52EK	XSZXT0095MEO	Port Fuel-Injected	Normal
4	2		1999	OBD II	USEPA		Unk	Unk	Unk	Y	Y	Y	Y	Y	YTYXT02.0XBH	YTYXE0095AE1	Port Fuel-Injected	Normal
4	1.6	L	1997	OBD II	USEPA		Unk	Unk	Unk	Y	Y	Y	Y	Y	VNS1.6VJGKEK	VNS107SAYMEA	Port Fuel-Injected	Normal
6	3	L			USEPA		Y			Y	Y	Y	Y	Y	XFMXT03.02BB		Port Fuel-Injected	Normal
6	3	L	2002	OBD II	USEPA		Y			Y	Y	Y	Y	Y	2FMXV03.0VF4		Port Fuel-Injected	Normal
6				No OBD									Y					
6	91	CID	1984	No OBD	USEPA		Unk	Unk	Unk	Y	Y	Unk	Unk	Unk	EHN1.SU3FCF0	84 FA		Normal
6	3	L			USEPA					Y	Y	Y	Y	Y	XTYXV03.0BBA	XTYXR0135AK1	Port Fuel-Injected	Normal
4	1.5	L	1991	No OBD	USEPA		Unk	Unk	Unk	Unk	Unk	Y	Y	Unk	LHN1.5V5F1F2	90FD	Port Fuel-Injected	Normal
8	4	L	1995		USEPA		Unk	Unk	Unk	Unk	Y	Unk	Unk	Unk	SCR4.028GFEA	SCR7058AYPON		Normal
	5.2	L	1991	No OBD	USEPA		Y			Y	Y				MCR5.9TSHGF9	MCRTE		Normal
4	1.6	L	1997		USEPA					Y	Y	Y	Y	Y	VTY1.8UJGFFK	VTY1047DYMAO	Port Fuel-Injected	Normal
6	3	L	2000	OBD II	USEPA		Unk	Unk	Unk	Y	Y	Y	Y	Y	YNSXV03.0A6A	YNSXR0110RCC		
4				OBD II			Unk	Unk	Unk	N	Y	Y	Y	Y			Port Fuel-Injected	Normal
8	5	L	1995	No OBD	USEPA		Unk	Unk	Unk	Y	Unk	Y	Y	Unk	SFM1045AYM0A		Port Fuel-Injected	Normal
4	2	L					Y			Y	Y							Normal
6	4.3	L	1996	OBD II	USEPA		Unk	Unk	Unk	Y	Y	Y	Y	Y	TGM4.31PGFEK	TGM1089AYMEA	Port Fuel-Injected	Normal
6	3.1	L	1993	No OBD	USEPA		Y			Y	Y	Y	Y	Y	P1G3.4V8XGZS	PBQ-1K		Normal
6	4	L	2000	OBD II	USEPA					Y	Y	Y	Y	Y	4.0L-YFMXE0120BAE	YFMXT04.02F3	Port Fuel-Injected	Normal
8	5.3	L	2002		USEPA		Y	N	N	Unk	Y	Y	Y	Y	2GMYT05.3181	2GMXE0111911	Port Fuel-Injected	Normal
6	3.3	L	1998	OBD II	USEPA		Y	Unk	Unk	Y	Unk	N	Y	Y	WCRXT03.32BP	WCRXE0101XAA		Normal
6	3.8	L	1989	No OBD	USEPA		Y			Y	Y	Y	Y		K2G3.8U8XEB1		Port Fuel-Injected	Normal
4				OBD II			Unk	Unk	Unk	Y	Unk	Y	Y	Y				
6	3.8	L	1988	No OBD	USEPA		Y	N	Y	Y	Unk	Y	Y	N	JFM3.8U5HHF3			
6	4	L	1995	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	4.0L-SFM1120AYM0E	SFM4.028GFEA	Carb	Normal
6	178	In ³		OBD II	California		Y				Y	Y	Y	Y	YVUXV 2.93 BU3	YVUXRO 133X48	Carb	Normal
4	112.3	In ³	1991	No OBD	USEPA		N	N	N	N	N	Y	Y	N	MTK1.8V3FFD7	E	Port Fuel-Injected	Normal
6	3.3	L	1999		USEPA		Y	Unk	Unk	Y	Y	Unk	Unk	Unk	XCRXT03.328P	XCRXE 0101XAA		Normal
6	3.3	L	2000	OBD II	USEPA		Y	N	N	Y	N	Y	Y	Y	YCRXT03.328P	YCRXE0101XAA	Port Fuel-Injected	Normal
4	2.2	L	1999	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	XTYXV02.2XBC	XTYXE01 35AEO	Port Fuel-Injected	Normal
6	4	L	1993	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	PCR4.0T5FGA5	PTAPR or PTASS	Port Fuel-Injected	Normal
4	2.2	L		OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	YTYXV02.2XBA	YTYXR0135AK1	Port Fuel-Injected	Normal
4	2.2	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM2.2V8GKEK	VGM1095AYMEA	Port Fuel-Injected	Normal
8	4.6	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VFM4.6V8GKFL	VFM1090AYMED	Port Fuel-Injected	Normal
6	3.1	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WGMXV3.1041	WGMXR0133918	Port Fuel-Injected	Normal
6	152.4	In ³	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	PFM2.5V5F2F1	Couldn't find	Port Fuel-Injected	Normal
8	5.8	L	1995	No OBD	USEPA		Unk	N	Y	Y	N	Y	Y	Y	SFM5.888GBJA	SFM1045AYMOA	Port Fuel-Injected	Normal
6	2.7	L	2000	OBD II	USEPA		Unk	N	N	Y	N	Y	Y	Y	YCRXV02.7VB0	YCRXR0101GBD	Port Fuel-Injected	Normal
4	2	L	1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	XFMXV020VBB	XFMXE0080BAE	Port Fuel-Injected	Normal
6	4.3	L	2002	OBD II	USEPA, California	NLEV	Y				Y	Y		Y	2GMXT04.3187	2GMXE0095904	Port Fuel-Injected	Normal
8	5	In ³	1987 EPA	No OBD	USEPA		Y				N	Y	Y	N	HFM5.0V5HBFX	FIEGRE05AIP		Normal
4	2.2	L	1990	No OBD	USEPA		N	N	Unk	Y	Y	Y	Y	Y	LHN22V5FNF0	90FG	Port Fuel-Injected	Normal
6	3.3	L	1991		USEPA		Y	N	N	N	Y	Y	Y	Y	MCR3.8V5FBH5	MCRVC	Port Fuel-Injected	Normal
6	4	L	1990	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	LAM4.0T5LND3	LT-4.0H-15	Port Fuel-Injected	Normal
4	2	L	2002	OBD II	USEPA, California	NLEV	Y	N	N	Y	Y	Y	Y	Y	2FMXV02.0VF3	2FMXR0080BAE	Port Fuel-Injected	Normal
6	3	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	PCR3.0T5FFX1	PTASC	Port Fuel-Injected	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake	
6	3.5	L	1999	OBD II	USEPA, California	NLEV	N	N	N	Y	Y	Y	Y	Y	YHNXT03.5EA3	YHNXE0130AA3	Port Fuel-Injected	Normal	
4	2.3	L	2000	OBD II	USEPA, California	NLEV, Cle	N	N	N	Y	Y	Y	Y	Y	YHNXV02.3PF3	YHNXR0130AAA	Port Fuel-Injected	Normal	
6	4.2	L	2000	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	YFMXT04.22BF	YFMXE0155BAE	Port Fuel-Injected	Normal	
6	2.3	L	1988	No OBD	USEPA, California		N	N	N	Y	N	Y	Y	Y	JFM2.3T5FFG1	8HM	Port Fuel-Injected	Normal	
4	2.3	L	2001	OBD II	USEPA	NLEV, Cle	N	N	N	Y	Y	Y	Y	Y	1HNXV02.32J1	1HNXR0130AAF	Port Fuel-Injected	Normal	
4	1.6	L	1994	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	RNS16VJGFEA	RNS1030BYMOA	Port Fuel-Injected	Normal	
4	2	L	2002	OBD II	USEPA	NLEV	N	N	N	N	Y	Y	Y	Y	2KMXT02.0B05	2KMXR0160B05	Port Fuel-Injected	Normal	
4	2.6		EPA 1983	No OBD	USEPA		Y	N	N	Y	N	N	Y	N	DCR2.6V2BAP2	DCRKB	Port Fuel-Injected	Normal	
6	2.4		1997	OBD II	USEPA, California	TLEV	Y	N	Y	N	Y	Y	Y	Y	VVV2.4VJGKEL	VVV143AYPEA	Port Fuel-Injected	Normal	
4	2.3	L	1992	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Unk			Port Fuel-Injected	Normal	
4	2	L	2001	OBD II	USEPA	NLEV	N	N	N	Y	Y	Y	Y	Y	2.0L-YFMXV0.2.0VF2	2.0LFMXR00B0BBE	Port Fuel-Injected	Normal	
6	3.3	L	1999	OBD II	USEPA		N	N	N	Y	Y	Y	Y	N	VCRXT03.328P	XCRXE0101XAA	Port Fuel-Injected	Normal	
4	91 CID 1.5		1988		USEPA		N	N	N	N	Y	Y	Y	N	JHN1.5V5FCF4	8FD	Port Fuel-Injected	Normal	
6	3.8	L	1996	OBD II	USEPA, California	Tier 1	Y	N	N	N	Y	Y	Y	Y	TGM3.8V8GKEK	TGM1058AYMMA	Port Fuel-Injected	Normal	
V6	2.8		1986		USEPA		N	N	N	N	Y	N	Y	N	G162.8V8XG2X	6B0-1E	Port Fuel-Injected	Normal	
6	3	L	1999	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	XFMXT03.02BB	3.0LXFMXE0155FBE	Port Fuel-Injected	Normal	
4	3.8	L	1988	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	J2G3.8V8XE80	JB0-2D	Port Fuel-Injected	Normal	
4	2.3	L	1994	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	RFM2.3V8GAJA	RFM1045AYM0A	Port Fuel-Injected	Normal	
6	3		1996	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	TFM3.0VJGFEK	TFM1115AYMEB	Port Fuel-Injected	Normal	
6	4		1988	OBD II	USEPA		N	N	N	N	Y	Y	Y	N	WCRXT04.02B0	WCRXE0101GCS	Port Fuel-Injected	Normal	
8	4.6	L	1995	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	SFM4.6V8GAEB	SFM1045AYPOA	Port Fuel-Injected	Normal	
4	2.2		1997	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	VTY2.2VJGKFK	VT41095AYME1	Port Fuel-Injected	Normal	
4	1.8		1996	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	TTY1.8VJGFFK	TTY1041DYMA0	Port Fuel-Injected	Normal	
4	1.6		2000	OBD II	USEPA, California	NLEV	N	N	N	N	Y	Y	N	Y	YHNXV01.6CA3	YHNXR0099AAD	Port Fuel-Injected	Normal	
4	2.2	L	2000	OBD II	USEPA		N	N	N	N	Y	Y	N	Y	YTYXV02.2XBA	YTYXR0135AK1	Port Fuel-Injected	Normal	
4	1.8		2000	OBD II	USEPA	NLEV	N	N	N	Y		Y		Y	YT4XV01.8	YT4XR011SAK1	Port Fuel-Injected	Normal	
6	4.9	L	1984		USEPA		Y	N - Disable	N - Disable	N - Disable	Y	N - Remov	Y	N	EFM4.9TIHGG5	E4AE-9C485-AKM	Carb	Normal	
4	2.5		2000	OBD II	USEPA, California	LEV	N	N	N	N	Y	Y	Y	Y	YFJXV02.5JEH	YFJXR01251CC	Port Fuel-Injected	Normal	
8	305	In ³	1977	No OBD	USEPA		Unk	N - Disable	Unk	Y	Unk	N - Remov	N	N	Unlisted	710Y2	Carb	Normal	
4	2.4	L	2001	OBD II	USEPA, California	NLEV	N	N	N	N	Y	Y	Y	Y	1HYXT02.453S	1HYXR0175PES	Port Fuel-Injected	Normal	
4	1.8	L	2003	OBD II	USEPA, California	LEV	Y	N	N	N	Y	Y	Y	Y	3TKXV01.8CJA	3TKXR0120PMA	Port Fuel-Injected	Normal	
6	3.1		1999	OBD II	USEPA		Y	N	N	N	N	Y	Y	Y	XGMXV03.4041	XGMXE0095904	Port Fuel-Injected	Normal	
6	4.3	L	1993		USEPA		Y	N	N	N	Y	Y	Y	Y	P3G4.3T5TAA6	PF0-3A	Throttle-body	Normal	
6	4.3	L	2001	OBD II	USEPA, California	LEV	Y	N	N	Y	Y	Y	Y	Y	1GMXT04.3187	1GMXE0095904	Port Fuel-Injected	Normal	
4	1.9	L	1994	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	R4G1.9VHGBEA	R4G1035AYPOC		Normal	
4	3.1	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	LIG3.1V8XG25	LB0-1K		Normal	
	4.3		1991	No OBD	USEPA		Y	N	N	N	Y	N	Y	Y	M3G4.3T5TAA3	MF0-3B			
8	5	L	1986	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	N	non readable	non readable			N
6	2.8	L	1986	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	FLG2812H1X1	S86-8	Carb		N
8	5.8	L	83		USEPA		Y	N	Unk	Y	Y	Y	Y	N	DFM5.8T2AAF9	3DQ?	Throttle-body		N
8	5	L	1989		USEPA		Y	N	Y	Y	Y	Y	Y	N	5.0L-9HM	KFM5.0V5HBF4	Port Fuel-Injected		N
6	4.2	L	1998		USEPA		N	N	N	N	Y	Y	Y	Y	WFMXT04.2BAA	WFMXE0160BAE	Port Fuel-Injected		N
6	Unknown		Unknown	OBD II			Unk	N	Unk	Y	Y	Y	Y	Y	N/A, no sticker	N/A, no sticker	Port Fuel-Injected		N
8	5.7	L	1994		USEPA		Y	Y	N	Y	Y	Y	Y	Y	R3G5.785GAEB	R3G1085AYMOA	Throttle-body		N
4	2.4	L	1996	OBD II	USEPA		Y	Y		N	N	Y		N	TCR2.4VJGFEK	TCR1098A4PE0			N
4	2.5	L	1986	No OBD	USEPA		Y	N	N	N	Y	N	Y	N	GFM2.5V5HCFS		Port Fuel-Injected		N
4	2.2	L	1988	No OBD	USEPA		N	N	N	N	Y	Y			JTK2.2V5FFG1	JB0-2D	Port Fuel-Injected		N
6	3.8	L	1985	No OBD			Y	N	N	N	Y	Y	Y	N	F4G3.8V8XEB3	580-AA	Port Fuel-Injected		N
8	5						Unk	Unk	Unk	Unk	Unk	Unk	Y	Unk					N
6	3	L	1992	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	NNS3.0V5FHAB	F16-1	Port Fuel-Injected		N
6	3.8		1994	OBD I	USEPA, California		N	N	N	N	Y	Y	Y	Y	R1G3.8V8FEA	R1G1058AYMOJ	Port Fuel-Injected		N
6	4.9		1990	No OBD	USEPA		Y	N	Y	Y	Y	Y		Y	IFM4.9T5HG7		Port Fuel-Injected		N

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
6	3	L	2001	OBD II			Y	N	N	Y	Y	Y	Y	Y	2FMXV03.0VF3-2	2FMXR0115BAE	Port Fuel-Injected	
6	3.5	L	1994	No OBD	USEPA		N	N	N	N	Y	Y	Y	N	RCR3.5VJGAE	RCR1095AYP01	Port Fuel-Injected	N
6	3.8		1994		USEPA, California		N	N	N	Y		Y	Y	Y	R1G3.8V8GFEA	R1G1058AYMOJ	Port Fuel-Injected	N
8	?		?	No OBD			Unk	Unk	Unk	Unk	Unk	Unk	Unk	Unk	?	?		N
8	5	L	1984	No OBD	USEPA		Y	N	N	Y	N	Y	Y	N	ASF-525.0L-5FM	FFM5.0V5HBF8	Carb	N
4	1.9		1992	No OBD	USEPA						Y	Y		Y	NFM1.9V5FCF3	F2AE-9C485 HGS ?	Port Fuel-Injected	N
4	1.6		2000	OBD II	USEPA, California		N	N	N	N	Y	Y	Y	Y	YHNXV01.6CA3	YHNXR0099AAD	Port Fuel-Injected	N
6	3.1	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM3.1V8GKEK	VGM1095AYMEA	Port Fuel-Injected	N
4	2.3	L	1992		USEPA		N	N	N	N	Y	Y	Y	Y	N2G2.3V8XRM9	NAO-2A	Port Fuel-Injected	N
6	3.8		2005	OBD II	USEPA	ULEV	Y	N	N	N	N	Y	Y	Y	5CRXT03.82N0	5CRXR0177GHA	Port Fuel-Injected	N
4	96.8	In ³	1989	No OBD	USEPA		Y	N	N	Y	Y	Y		Y	KTY16V2HFD8	(unknown)	Carb	N
4	1.33	L	1993	No OBD	USEPA		Y	N	N	Y	Unk	Y		N	Unknown		Port Fuel-Injected	N
6	3.4	L	2000	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	YGMXT03.4141	YGMXE0095905	Port Fuel-Injected	N
4	1.8	L	1991		USEPA		Y	Unk	N	Unk	Unk	Y	Y	Y	MVW1.8V5FWD8	Unknown	Port Fuel-Injected	N
6	3	L	1987	No OBD	USEPA		Y	N	N	Unk	Y	Y	Y	N	BUJJIASAWSF-323.1	HFM3.0V5FEGG	Port Fuel-Injected	N
6	4.9	L	1986		USEPA		Y	N	N	Y	N	Y		N	4.9-6GM	GFM4.9T1HGG7	Carb	N
4	2.8	L	1987	No OBD	USEPA		Y	N	N	Y	N	Y	Y	N	JIG2.8V8XRZ8	JB0-1K	Port Fuel-Injected	N
4	2.3	L	1992	No OBD	USEPA		N	N	N	N	Y	Y		Y	N2G2.3V8XRM9	NAO-2A	Port Fuel-Injected	N
4	96.8 Cid	In ³	1989		USEPA		Y	N	N	N	Y	Y	Y	Y	LNT1.6V5FFD1	EV-E	Port Fuel-Injected	N
4	1.8		1993	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	PFM1.8V5FXF7	BW0GF	Port Fuel-Injected	N
6	2.5	L	1997	OBD II	USEPA		Y	Unk	Unk	Y		Y	Y	Y	2.5WFMXE0115BBE	WFMXV02.5AA	Port Fuel-Injected	N
8	4.9	L	1992		USEPA		Y	N	N	Y	Unk	Y	Y	N	P1G4.9WBXGA0	PRO-IT 4.9	Port Fuel-Injected	N
4	2	L	1987		USEPA		Y	N	N	Y	Y	Y	Y	N	HHN2.0V5FNF4	87FG	Port Fuel-Injected	N
6	3		1998	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	WNSXV03.0A6A	WNSXE0110MBA	Port Fuel-Injected	N
6	3.3		1997	OBD II	USEPA		N	N	N	N	Y	Y	Y	N	VCR3.828GFEK	VCR1098AYPEA	Port Fuel-Injected	N
6	1.8	L	1994	No OBD	USEPA		Unk	Unk	Unk	Unk	Y	Y	Y	Unk	RDS1.8GAEA	RDS1037BYM0G	Port Fuel-Injected	N
8	2.9	L	1987		USEPA		Y	N	N	Y	Y	Y	Y	N	HFM2.9T5FME6	E7AE-9C485-CCE	Port Fuel-Injected	N
4	141 Ci		1983		USEPA, California		Y	N	N	N	N	Y	Y	Y	DVV141V5FSN4	E2	Port Fuel-Injected	N
6	4.3	L	1989		USEPA		Y	N	N	Y	N	Y	Y	N	K3G4.3T5XEB0	KB0-3E	Carb	N
4	1.9		1987	No OBD	USEPA		N	N	N	Y	Y	Y	Y	N	HFM1.9V5FFF1	E7AE-9C485	Port Fuel-Injected	N
6	3.8	L	1992	No OBD	USEPA		Y	N	N	N	N	Y	Y	Y	N2G3.8V8JAW4	NB0-2F	Port Fuel-Injected	N
6	3	L	1997	OBD II	USEPA		Y	N	N	Y	N	Y	Y	Y	VFM3.0V8GKEK	VFM1115AYMEP	Port Fuel-Injected	N
6	3	L	2001		USEPA		Y	N	N	Y	Y	Y	Y	Y	1FMXV03.0VF3	1W7E-9C485-HFP	Port Fuel-Injected	N
4			1990		USEPA		Y	Unk	Unk	Y	Unk	Y	Y	Y			Throttle-body	N
6	3.8	L	1991		USEPA		Y	N	N	Y	Y	Y	Y	Y	M2G3.8V8XEB3	MBOP-2D	Port Fuel-Injected	N
4	Unk - No label		UNK		UNK		Unk	Y	N	Y	Y	Y	Y	Unk	K02TUESL2 (model tag says), 663B, EXT P		Carb	N
4	121.9 Cid (2.0 L)		1989		USEPA		Y	Unk	N	Y	Y	Y	Y	Y	KTY2.0V5FFFX	EV-E	Port Fuel-Injected	N
6	3	L	1984		USEPA		Y	N	N	Y	N	Y		Y	E4G3.8V2NEY0	483-40	Carb	N
4	1.8	L	2000	OBD II	California	LEV	Y	N	N	N	Y	Y	Y	Y	YKMXV01.8A03	YKMXR0100A03	Port Fuel-Injected	N
4	2	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	K1G2.0V5IG0	KA0-1E	Carb	N
8	4.9	L	1979		USEPA		Y	N	N		Y	Y	Y	N	920S2E	983-2	Carb	N
8	5	L	1994	No OBD	USEPA	N/A	N	N	N	Y	Y	Y		Y	RFM1045AYM0A	RFM5.888GBJ8-OC	Port Fuel-Injected	N
8	5	L	1986		USEPA	N/A	Y	N	Y	Y	Y	Y	Y	N	5.0L-6HM	GFM5.0V5HBF9	Port Fuel-Injected	N
6	3.8		1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	K2G3.8V8XEB1	KB0-2D	Port Fuel-Injected	N
4	1.3	L	1994		USEPA, California		Y	N	N	Y	Y	Y		Y	SFM1065BYMDA	SFM1.3V8G1EA	Port Fuel-Injected	N

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4				OBD II									Y					N
6	4	L	1995		USEPA		Y	N	N	N	Y	Y	Y	N	SCR4.028GFEA	SCR1058AYPON	Port Fuel-Injected	N
8	4.3	L	1990	No OBD	USEPA					Y		Y	Y	Y	L3G4.3T5XE	LB0-3E	Port Fuel-Injected	N
4	110 cu in		1978		USEPA		N	N	N	N	Y	N	N	N	B/50	L CAN-1	Carb	N
4	3.4	L	1997	OBD II	USEPA		Y	N	N	Y	Unk	Y	Y	Y			Port Fuel-Injected	N
4	1.6		2000	OBD II	USEPA	NLEV	N	N	N	N	Y	Y	N	Y	YHNXV01.6TA3	YHNXR0099AAD	Port Fuel-Injected	N
6	4.3		1995		USEPA		Y	N	N	Y	Y	Y	Y	Y	S3G4.385GAEA	S3G1085WYMOA	Carb	N
4	1.6	L	1997	OBD II	USEPA, California		N	N	N	Y	Y	Y	Y	Y	VHN1.6JGKEK	VHN106SAYMED	Port Fuel-Injected	N
8	5		1984	No OBD	USEPA		N	N	Y	Y	Y	N	Y	N	E3G5.0V4NLAX	434-3A	Carb	N
4	2.3	L	1984	No OBD	USEPA, California		N	N	N	N	Y	Y	Y	N	EVV2.3V5FEL8	E2	Port Fuel-Injected	N
8					USEPA		Y	Y	Y	Unk	Y	Y	Y	N	Unknown	Unknown	Carb	N
8	5.9		1997	OBD II	USEPA		Y	N	N	N	Y	Y		N	VCR5.968GFEK	VCR1073AYPBB	Port Fuel-Injected	N
6	4.9	L	1993	No OBD	USEPA		Y		Y	Y	Unk	Y		Y	PFM4.9T5HGM9-OC	F3AE9C48S-J1AJ	Port Fuel-Injected	N
6	3.1	L	1989		USEPA		Y	N	N	N	Y	Y		Unk	K1G3.1V8XGZ4	KB0-1K	Port Fuel-Injected	N
6	3.8	L	1990		USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y	L2G3.8V8XE8L	LB0-2D	Port Fuel-Injected	N
4	2.4		1996	OBD II	USEPA		Y	Y	N	N	Y	Y	Y	N	TCR2.4VJGFEK	TCR1098AYPE0	Port Fuel-Injected	N
4	2.5	No Label	No Label	OBD II			N	N	N	Y	Y	Y	Y	Y	No Label	No Label	Port Fuel-Injected	N
8	5.9		1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y		XCRXT05.95B2	XCRXE0133GDH	Port Fuel-Injected	N
4	1.6	L	1998	OBD II	USEPA, California	Tier 1, LEV	N	N	N	N	Y	Y	Y	Y	WHNXV01.6CA3	WHNXE0065AAD	Port Fuel-Injected	N
4	1.7	L	2001	OBD II	USEPA	NLEV	N	N	N	N	Y	Y	N	Y	1HNXV01.7YJD	1HNXR0099AAH	Port Fuel-Injected	N
4	2.2		1992	No OBD	USEPA		N	N	N	N	Y	Y			NHN2.2V5FEY4	92FG	Port Fuel-Injected	N
4	2.3		1994	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	R1G2.3V7GFEA	R1G1046AYMOG	Port Fuel-Injected	N
6	3.1		1999	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	XGMXV03.4041	XGMYR0124912	Port Fuel-Injected	N
6	3.4		2002	OBD II	USEPA	NLEV	Y	N	N	Y	Y	Y	Y	Y	2GMXT03.4141	2GMXR0212923	Port Fuel-Injected	N
8	4.5		1973	No OBD	USEPA, California		N	N	N	N	Unk	N		N	Unknown	Unknown	Port Fuel-Injected	N
8	5.7		1993	No OBD	USEPA		Y	N	N	Y	N	Y	Y	Y	P3G5.7T5TYA8	PP0-3C	Port Fuel-Injected	N
8	4.6	L	1997	OBD II	USEPA	light duty tr	Y	N	N	Y	Y	Y	Y	Y	VFM4628GKEK	VFM1160AYMED	Port Fuel-Injected	N
6	3.4	L	2002	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y			Port Fuel-Injected	N
6	3	L	1991	No OBD	USEPA		Y	N	N	Unk	N	Y	Y	N	MCR3.0T5FBL8	MCRTH	Port Fuel-Injected	N
4	2	L	1996	OBD II	USEPA		Y	N	N	Unk	Y	Y	Y	Unk	TDS2.0VJGFEK	TDS1130AYMEL	Port Fuel-Injected	N
4	1.6		1989	No OBD	USEPA					Y	Y	Y	Y	Y	KTY1.6V2HFFX	EV-A	Carb	N
4	1.6	L	1996	OBD II	USEPA		Y	N	Unk	Y	Y	Y	Y	Y	VNS1.6VJGKEK	VNS1075AYMEA	Port Fuel-Injected	N
4	2	L	1990	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	LTY2.0V5FFF0	EV-E	Port Fuel-Injected	N
4	2.4	L	2000	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	YNSXV02.4A3A	YNSXR0110RCB	Port Fuel-Injected	N
4	2.2	L	1989		USEPA, California		Y	N	N	Y	Y	Y	Y	Y	KCR2.5V5VBE7	KCRVB	Throttle-body	N
4	2.2	L	1999	OBD II	USEPA					Y	Y	Y	Y	Y	WTYXV02.2XBA	WTYXR0135AK1	Port Fuel-Injected	N
6	3.8	L	2001	OBD II	USEPA, California		Y	N	N	Y	Y	Y	Y	Y	1FMXR0230BBE	1FMXT03.82JS	Port Fuel-Injected	N
6	3	L	1996		USEPA		Y	N	Unk	Y	Y	Y	Y	Y	TTY3.0VJGFEK	TTY1095AYMED	Port Fuel-Injected	N
6	3	L	1997	OBD II	USEPA	N/A	Y	N	N	Y	Y	Y	Y	Y	VNS3.0VJGFEK	VNS1110AYMEA	Port Fuel-Injected	N
4	2.2	L	1999		USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y	XTYXV02.2XBA	XTYXR0135AK1	Port Fuel-Injected	N
6	3	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WFMXV03.0DAA	WFMXE0115BAE	Port Fuel-Injected	N
6	4	L	1997		USEPA	Light duty	Y	N	Unk	Y	Y	Y	Y	Y	VCR4.028GFEK	VCR1049AYPBN	Port Fuel-Injected	N
4	1.6	L	2004		USEPA, California	On Tier 2-8	N	N	N	N	Y	Y	Y	Y	4KMXV01.6102	4KMXR0100C02	Port Fuel-Injected	N
8	5	L	1990	No OBD	USEPA	NA	Unk	N	Y	Y	Y	Y	Y	Y	L2G5.0V4NLA9	L134-2A	Carb	N
8	5	L	1988	No OBD	USEPA		Y	N	N	Y	N	Y	Y	N	JFM5.0V5HBF3	Unknown	Throttle-body	N

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4	2.4	L	1987	No OBD	USEPA	Light duty	N	N	Y	Y	N	Y	Y	Y	HTY2.4T2AFF3	EV-R	Carb	N
4	2.2	L	2003		USEPA		Y	N	N	N	Y	Y	Y	Y	4GMXV02.2025	4GMXR0124919	Port Fuel-Injected	N
4	2.4	L	1997	OBD II	USEPA		N	N	N	Y	Y	Y		Y	VGM2.4VJGKEK	VGM1095AYMEA	Port Fuel-Injected	N
4	2.4	L	2001	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM2.4JGKEK	VGM1095AYMEA	Port Fuel-Injected	N
6	3.8	L	1999		USEPA, Canada		Y	N	N	Y	N	Y	Y	Y	XCRXT03.8281	XCRXE0101GCA	Port Fuel-Injected	N
6	3	L	1994	No OBD	USEPA		Y	N	N	Y	Unk	Y	Y	Y	RTY3.0VJGFEK	RTY1073DYM00	Port Fuel-Injected	N
6	4	L	2003	OBD II	USEPA, California	SFTP, CFF	Y	N	N	N	N	Y	Y	Y	3FMXT04.02FA	3FMXR0155BBE	Port Fuel-Injected	N
	3.5	L	2004	OBD II	USEPA, California		Y	N	N	N	N	Y	Y	Y	4KMXT03.5F03	4KMXR0160F03	Port Fuel-Injected	N
4	1.6	L	1995		USEPA	not Califor	N	N	N	N	Y	Y	Y	Y	STY1.6VHGBFA	STY1047DYM00	Port Fuel-Injected	N
6	3	L	2000	OBD II	USEPA	not Califor	N	N	N	N	Y	Y	Y	Y	YTYXT03.0XBP	YTYXE011SAE1	Port Fuel-Injected	N
4	2.5	L	1987	No OBD	USEPA		Y	N	Unk	Y	N	Y	Y	Unk	H1G2.5V5TPG0	7A0-1C	Carb	N
6	3.1	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM3.1V8GKEK	VGM1095AYMEA	Port Fuel-Injected	N
4	2	L	1996		USEPA		Y	N	N	Y	N	Y	Y	Y	TFMZ.0VJGFEK	TFM1045AYPAB	Port Fuel-Injected	N
6	4.9	L	1989	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	Unk	KFM4.9T5HGE5	9HM	Port Fuel-Injected	N
4	1.9	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	P4G1.9V5J8H9	PA0-4C	Port Fuel-Injected	N
6	2.5	L	2003	OBD II	USEPA, California	LEV light d	N	N	N	Y	Y	Y	Y	Y	3SKXT2.49LC1	3SKXR0120164	Port Fuel-Injected	N
8	5	L	1987	No OBD	USEPA		N	N	Y	Y	Y	Y	Y	N	H2G5.0V4NLA3	7134-2A	Carb	N
4	2		1999	OBD II	USEPA						Y	Y	Y	Y	XFMXV02.0VBB	XFMR0080BAE	Port Fuel-Injected	N
6	3	L	2001	OBD II	USEPA, California	NLEV, LEV	N	N	N	Y	Y	Y	Y	Y	ITYXV03.0FEB	ITYXR0135AK1	Port Fuel-Injected	N
6	3.7		1986	No OBD	USEPA		N	N	N	Y	Y	Y	Y	N	GCR3.7T1BBA1	GCRTD, GCRTE	Port Fuel-Injected	N
8	5.7	L	1997		USEPA		Y	N	N	Y	Y	Y	Y	N	S3G5.785GBEB	S3G1085AYMOA	Carb	N
4	1.6	L	1992	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	NTY1.6V5FFD6	EV-E	Port Fuel-Injected	N
4	2.4	L	1997	OBD II			Y	N	N	Y	Y	Y	Y	Y	VGM2.4VJG2EK	VGM1095AYMEA	Port Fuel-Injected	N
4	1.9	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	1.9F-SFM1045AYPO	SFM1.9V8GFEA	Port Fuel-Injected	N
6	3.1	L	2001	OBD II	USEPA, California	LEV	Y	N	Y	Y	Y	Y	Y	Y	1GMXV03.8043	1GMXR0133918	Port Fuel-Injected	N
6	3	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WFMXV03.0DAA	WFMXR0115BAE	Port Fuel-Injected	N
4	1.8	L	1996	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	TTY1.8VJGFFK	TTY1047DYMAO	Port Fuel-Injected	N
6	3.5	L	2002	OBD II	USEPA, California	LEV	N	N	N	N	Y	Y	Y	Y	2NSXV03.5C6A	2NSXR0110RCB	Port Fuel-Injected	N
8	4520	Cm³	1980	No OBD	USEPA		Y	N	N	Unk	Unk	Y	Y	Y	80202845	Unknown	Carb	N
6	3.8	L	1993	No OBD	USEPA		Y	N	N	Y	N	Y	Y	Y	PFM3.8V5FJF0	HM	Port Fuel-Injected	N
6	4.3	L	1990	No OBD	USEPA		Y	N	N	Y	Y	Y		Y	L3G4.3T5TAA2	LF0-3B	Carb	N
4	2.3	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	TVV2.3VJGKEK	TVV1058AYPAA	Port Fuel-Injected	N
6	3	L	1994	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	RTY3.0VJGFEK	RTY1073DYM00	Port Fuel-Injected	N
4	1.9	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM1.9VJGKEK	VGM1035AYPAA	Port Fuel-Injected	N
6	3	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	SFM3.0V8GFEA	SFM1045AYMOA	Port Fuel-Injected	N
6	3.3	L	1989	No OBD	USEPA		Y	N	N	N	Y	Y		Y	K2G3.3V8JAW4	KB0 20	Port Fuel-Injected	N
6	3.5	L	2000		USEPA, California	NLEV, Cle	N	N	N	Y	Y	Y	Y	Y	YHNXT03.5EA3	YHNXE0130AAE	Port Fuel-Injected	N

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake	
8	4.6		1995	OBD II	USEPA		Y	N	N	Y	N	Y	Y	Y	SFM4.6V8GFEA	SFM1120AYM1B	Port Fuel-Injected	N	
6	4.9	L	1989	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	Unk	KFM4.9T5GHE5	9HM	Port Fuel-Injected	N	
8	4.6	L	1994		USEPA		Y	N	N	Y	Y	Y	Y	Y	RFM4.6V8GAEA	RFM1045YFPOA	Port Fuel-Injected	N	
4	2.4	L	1998	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	WGMXV02.4024	WGMXE0095904	Port Fuel-Injected	N	
4	2.2	L	1996	OBD II	USEPA, California	TLEV	N	N	N	Y	Y	Y	Y	Y	TTY2.2VJG2GK	TTY1095AYME0	Port Fuel-Injected	N	
8	5.3	L	2002	OBD II	USEPA	Light duty	Y	N	N	N	Y	Y	Y	Y	2GMXT05.3182	2GMXE0111920	Port Fuel-Injected	N	
				OBD II			Y	N	N	Y	Y	Y	Y	Y	Unknown	Unknown	Port Fuel-Injected	N	
8	5	L	1990	No OBD	USEPA		Y	N	N	N	Unk	Y	Y	Unk	Unknown	Unknown	Port Fuel-Injected	N	
4	2156	Cm³	1997	OBD II	USEPA, California		N	N	N	Y	Y	Y	Y	Y	VHN2.2VJGKFK	VHN1090AYMEA	Port Fuel-Injected	N	
6	3	L	1990	No OBD	USEPA		Unk	Unk	Unk	Y	Unk	Y	Y	Y	LNS3.0V5FCF1	Fl6-1	Port Fuel-Injected		
4	2	L	1999	OBD II	USEPA, California			N	Y	Y	Y	Y	Y	Y	XVWXV02.0223	XVWXE0090233	Port Fuel-Injected		
4	1.9		1995	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	SFM1.9VBGFEA	SFM1045AYPOA	Port Fuel-Injected	Normal	
8	Unknown 350		Unknown	No OBD	USEPA		Y	N	N	N	Unk	N	N	N	Unknown	Unknown	Carb	Normal	
6	3.5	L	1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	XCRXV02.15V20	XCRXR0101GID	Port Fuel-Injected	Normal	
6	3.5	L	2000	OBD II	USEPA		Y	N	N	N	Y	Y	N	Y	4HNXT03.5EA3	4HNXE0130AAE	Port Fuel-Injected	Normal	
4	2.2	L	1997		USEPA/California		Y	N	N	Y	Y	Y	Y	Y	VHN2.2VJGKFK	VHN1090A4MEA	Port Fuel-Injected	Normal	
6	3.3	L	1998		USEPA		Y	N	N	N	Y	Y	Y	Y	WCRXT03.32BP	WCRXE0101XAA	Port Fuel-Injected	Normal	
4	2.3	L	2001	OBD II	USEPA		Y	N	N	N	Y	Y	N	Y	1HNXV02.32J1	1HNXR0130AAF	Port Fuel-Injected	Normal	
4	1.5	L	90	N/A	USEPA		Y	N	N	N	Y	Y	Y	Y	LHV15V5F1F2	90 FD	Throttle-body	Normal	
4	1.6	L	1995	OBD I	USEPA		Y	N	N	N	Y	Y	Y	Y	ST41.6VH6BFA	ST41047D4MOO	Port Fuel-Injected	Normal	
6	3.3		1997	OBD II	USEPA		N	N	N	N	Y	Y	Y	N	VCR3.828GFKEK	VCR1098AYPEA	Port Fuel-Injected	Normal	
4	2.3		1989	No OBD	USEPA						Y	Y	Y	N	K2G2.3V8XEWO	KA0-2G	Port Fuel-Injected	Normal	
6	3	L	2000		USEPA		Y	N	N	N	Y	Y	Y	Y	YCRXT03.02B0	YCRXE0101GCA	Port Fuel-Injected	Normal	
6	3	L	2002	OBD II	USEPA/California		Y	N	N	Y	Y	Y	Y	Y	FMXV03.0VF4-2TW	2FMXR0115BAE	Port Fuel-Injected	Normal	
8	351	In³	1979	No OBD	USEPA/California		Y	Y	N	Y	Y	Y	Y	N	5.8M16.6"B"(1X128)		Carb	Normal	
6	3.1	L	1999		USEPA		Y	N	N	Y	Y	Y	Y	Y	XGMXV03.4041	XGMXR0124912	Port Fuel-Injected	Normal	
4	1.6	L	1996	OBD II	USEPA/California		Y	N	N	N	Y	Y	Y	Y	THN1.6VJGKEK	THN1065A4MED	Port Fuel-Injected	Normal	
4	1.9		1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	TGM1.9V8GKEK	TGM1035AYPAA	Port Fuel-Injected	Normal	
6	3.1	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WGMXV03.1041	WGMXE0095904	Port Fuel-Injected	Normal	
6	2.4	L	1997	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	VGM2.4VJGKEK	VGM1095AYMEA	Port Fuel-Injected	Normal	
6	3.8	L	2003	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y			Port Fuel-Injected	Normal	
8	5.9		1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	XCRXT05.9582	XCRXE0133GDH	Port Fuel-Injected	Normal	
4	1.6		1999	OBD II	USEPA/California		Y	N	N	Y	Y	Y	Y	Y	WHNXV01.6CA3	WHNXXE0065AAD	Port Fuel-Injected	Normal	
6	4	L	1998	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	WCRXT04.02B0	WCRXE0101GCS	Port Fuel-Injected	Normal	
6	4	L	1995	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	SCR4.028GFEA	SCR1058AYPON	Port Fuel-Injected	Normal	
4	2.3		2000	OBD II	USEPA/California	NLEV	N	N	N	N	Y	Y	N	Y	YHNXV2.3PPG	YHNXR0T30AAA	Port Fuel-Injected	Normal	
6	4.0	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	SFM1120AYMOB	SFM4.0286FEA	Port Fuel-Injected	Normal	
4	2.2		2000	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	YGMXX02.4021	YGMXR0124919	Port Fuel-Injected	Normal	
6	3.1	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	N	Y	WGMXV03.1041	WGMXR0124912	Port Fuel-Injected	Normal	
4	2.5	L	1990	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	LCR2.5V5FBD7	LCRVB	Port Fuel-Injected	Normal	
4	1.9	L	2001	OBD II	USEPA	NLEV	Y	N	Y	N	Y	Y	Y	Y	1GMXV01.9002	1GMXR0080902	Port Fuel-Injected	Normal	
6	2.4	L	2001	OBD II	USEPA		Y	N	N	Y	Y	Y	N	Y	1DSXV02.4NG	1DSXR0165A1F	Port Fuel-Injected	Normal	
8	5	L	1991	No OBD	USEPA		Y	N	N	N	Y	Y	Y	N	MF5.0V5H1367	Not listed	Port Fuel-Injected	Normal	
6	4	L	1997	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	VCR4.028GFKEK	VCR1049A4PBN	Port Fuel-Injected	Normal	
6	3	L	1994	No OBD	USEPA/California/Canada		N	N	N	Y	Y	Y	Y	Y	RTY3.0VJGFEK	RTY1073DYM00	Port Fuel-Injected	Normal	
6	3	L	1994	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	RT43.0VJGFEK	RY41073D4M00	Port Fuel-Injected	Normal	
8	4.3	L	1995		USEPA/California		Y	N	N	Y	Y	N	Y	Y	S3G4.31SGEEA	S3G1089AYMON-Fed	Carb	Normal	
4	1.9	L	1999	OBD II	USEPA		Y	Y	N	Y	Y	Y	Y	Y	XGMXV01.9003	XGMXR0080902	Port Fuel-Injected	Normal	

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
6	3.8	L	1995	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	S1G3.8V8GFEC	S1G1058AYMOD	Port Fuel-Injected	Normal
8	5.3	L	2002	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	2GMXT05.3181	2GMXE0111911	Port Fuel-Injected	Normal
6	3.1	L	2001	OBD II	USEPA/California		Y	N	N	Y	Y	Y	Y	Y	1GMXV03.8043	1GMXR0133910	Port Fuel-Injected	Normal
8	4.6	L	2001	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	1FMXT04.6PF5	1FMXE0155BAF	Port Fuel-Injected	Normal
4	1.6	L	1991		USEPA		Y	N	N	N	Y	Y	Y	Y	MNT1.6V5FFD2	EV-E	Port Fuel-Injected	Normal
6	3.8	L	1995	No OBD	California		Y	Y	N	Y	Y	Y	Y	Y	S1G3.8V8GFEC	S1G105GAYMOD	Port Fuel-Injected	Supercharge
6	3	L	2000		USEPA		Y	N	N	N	Y	Y	Y	Y	YTYXT03.0XBP	YTYXE0115AE1	Port Fuel-Injected	Normal
6	3.8	L	1999	OBD II	USEPA/Canada		Y	N	Y	N	Y	Y	Y	Y	XCRXT03.8281	XCRXE0101GCA	Port Fuel-Injected	Normal
4	2.2	L	2001	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	1GMXV02.4022S	1GMXR0124919	Port Fuel-Injected	Normal
6	2.5	L	2003	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	3SKXT2.49LC7	3SKXR0120164	Port Fuel-Injected	Normal
6	3.1	L	1994		California		Y	Y	N	Y	Y	Y	Y	Y	R1G3.1V8GFEA	R1G1058AYMOA	Port Fuel-Injected	Normal
6	3	L	Unknown	OBD 1	USEPA		Y	N	N	N	Y	Y	Y	Y	No sticker	No sticker	Port Fuel-Injected	Normal
6	3	L	1995	No OBD	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Y	SFM3.0V8GFEA	SFM1045AYMOA	Port Fuel-Injected	Normal
6	3.1	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	P1G3.4V8XG2S	PB0-1K	Port Fuel-Injected	Normal
6	3.8	L	Jun-95	OBD II	USEPA							Y			SFM3.8V8G1BK	SFM1045AYMOA	Port Fuel-Injected	Normal
6	3	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	PFM3.0T5FZZ5	None Listed	Port Fuel-Injected	Normal
6	3	L	1989	No OBD	USEPA		Y	Y	N	N	N	Y	N	N	KCR3.0T5FBL6	KCRTC (?)	Port Fuel-Injected	Normal
4	2.3	L	1988	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	N	JMF2.3T5FFG1	2.3L 8HM E8AE-9648	Throttle-body	Normal
8	4.6	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	SFM1120AYM1B	SFM4.6V8GFEA	Port Fuel-Injected	Normal
6	3	L	1992	OBD I	USEPA		Y	N	N	N	Y	Y	Y	Y	NFM3.0TFZK7	N	Port Fuel-Injected	Normal
6	3.8	L	1994	No OBD	California		Y	N	N	Y	Y	Y	Y	Y	R3G3.828GFEA	R3G1058AYPOA	Port Fuel-Injected	Normal
4	2	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	None Listed	None Listed	Port Fuel-Injected	Normal
6	3.3	L	1994	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	Not Listed	Not Listed	Port Fuel-Injected	Normal
6	3	L	1989		USEPA		Y	N	N	N	Y	Y	N	N	KCR3.0T5FBL6	KCRTC	Port Fuel-Injected	Normal
8	5	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	TGM5.08PBEK	TGM1098AYMBA	Port Fuel-Injected	Normal
4	2.3		1986	No OBD	USEPA		N	N	N	Y	N	Y	Y	Unk	GFMD2.5V5HCFS	E6AE-9C485-ANM	Carb	Normal
8	4.5	L	1973	No OBD	USEPA/California		Y	N	N	N	Y	Y	N	N	None Listed	None Listed	Carb	Normal
8	305	In ³	1977	No OBD	USEPA		Y	N	N	N	N	Y	N	N	None Listed	None Listed	Carb	Normal
6	4	L	1996	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	TFM4.028GKFK		Port Fuel-Injected	Normal
4			1989	No OBD	USEPA										No sticker model K02	No sticker model K02	Carb	Normal
4	1.5		1988	No OBD	USEPA		N	N	N	N	Y	Y	Y	Unk	1JHN1.5V5FCF4	88FD	Carb	Normal
6	4	L	1998	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	WCRXT04.02B0	WCRXE0101TGCS	Port Fuel-Injected	Normal
4	2	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	TCR2.0VJGKEK	TCR1049AYPAO	Port Fuel-Injected	Normal
8	4.9	L	1979	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	Not Listed	Not listed	Carb	Normal
6	3.3	L	1996	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	N	TCR3.328GKEK	TCR1098AYPEA	Port Fuel-Injected	Normal
4	2.1			No OBD	USEPA		Unk	Unk	Unk	Unk	Unk	Y/Unk	Unk	Unk	No sticker	No sticker	Carb	Normal
8	4.9		1990	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y			Port Fuel-Injected	Normal
4	2.3	L	1990	OBD 1	USEPA		Y	N	N	N	Y	Y	Y	Y	LFM2.3T5FNF0	FOAE 9C485DGE	Throttle-body	Normal
6	4.2	L	2004	OBD II	USEPA		N	N	Y	N	Y	Y	Y	Y	4GMXT04.2185	4GMXR0175922	Port Fuel-Injected	Normal
4	2.4	L	1987	No OBD	USEPA		N	N	N	Y					HTY2.4T2AFF3	EV-R	Carb	Normal
6	3.8	L	1995	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	S1G3.8V8GFEC	S1G1058AYMOD	Port Fuel-Injected	Normal
8	5	L	1984	No OBD	USEPA		Y	Y	Y	Y	Y	Unk	N	N	E1G5.7T4HHCX	4D4-8	Carb	Normal
4	2.3	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VFM1045AYPBA	VFM2.318GFEK	Port Fuel-Injected	Normal
4	2.2	L	1996	OBD II	California		Y	N	N	Y	Y	Y	Y	Y	TGM2.218GFEK	TGM1089AYMEA	Port Fuel-Injected	Normal
6	4.2	L	2004	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	4FMXT04.22HB	4FMXR0200BBE	Port Fuel-Injected	Normal
6	3	L	1995	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	STY3.087GAFA	STY1047DYM00	Port Fuel-Injected	Normal
8	5.7	L	1995	No OBD	USEPA		Y	N	N	Y		Y	Y	Y	S3G5.785GAEA	S3G1085AYMOA	Carb	Normal
6	3	L	2001		USEPA	NLEV	Y	N	N	N	Y	Y	N	Y	1TYXT0T3.0FFP	1TYXR0150AK1	Port Fuel-Injected	Normal
4	1.8	L	1995	OBD I	California		N	N	N	N	Y	Y	Y	Y	SHN1.8VJGEFA	SHN1077BYMOC	Port Fuel-Injected	Normal
4	2.4	L	1998	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	WNSXT02.4A3A	WNSXE0110MBA	Port Fuel-Injected	Normal
6	3.5	L	1996		USEPA		Y	N	N	N	Y	Y	Y	Y	TCR3.5VJGFEK	TCR1073AYPAO	Port Fuel-Injected	Normal
6	3	L	2002	OBD II	California		Y	N	N	Y	Y	Y	Y	Y	2FMXR0115BAE	2FMXV03.0VF4	Port Fuel-Injected	Normal
6	3.2	L	2000	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	4CRXV03.5VBO	4CRXR0101GBD	Port Fuel-Injected	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
6	3.3	L	1993	OBD I	USEPA		Y	N	N	N	Y	Y	Y	Y	PCR3.3U5FKGX		Port Fuel-Injected	Normal
8	5	L	1989	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	KFM5.8T5HZB8		Port Fuel-Injected	Normal
8	4.3	L	1992	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	N3G4.3TBTAA3		Port Fuel-Injected	Normal
8	5.7	L	1994	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	R3G5.785GAEB	R3G1085AVMOA	Carb	Normal
8	5.4	L	2001	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	1FMXE0155BAG	1FMXT05.4RF8	Port Fuel-Injected	Normal
4	1.5	L	1992	OBD I	USEPA		Y	N	N	N	Y	Y	Y	Y	NHN1.5V5FLF8	92FL	Port Fuel-Injected	Normal
8	4.4	L	1982	No OBD			Y	Y	Y	Y	Y	Y	Y	N	CIG4.4V2ACA6	238-1B	Carb	Normal
6	3.8	L	2003	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	3MTXT03.8GNS	3MTXR0200AIA	Port Fuel-Injected/T	Normal
4	2.4	L	1999		USEPA		Y	N	N	Y	Y	Y	Y	Y	XCRXV02.4VBO	XCRXR0101GBC	Port Fuel-Injected	Normal
6	3.5	L	2002	OBD II	California		Y	N	N	N	Y	Y	Y	Y	2CRXV03.5VD1	2CRXR0130GBA	Port Fuel-Injected	Normal
6	3.1	L	1994	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	Unknown	Unknown	Port Fuel-Injected	Normal
8	4.3	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	P3G4.3T5TAA6	PF0-3A	Port Fuel-Injected	Normal
6	3	L	1992	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	NCR3.0T5FFXX	NCRTC	Throttle-body	Normal
6	3.3	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WCRXT03.32BP	WCRXE0101XAA	Port Fuel-Injected	Normal
8	4.6	L	1991	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	MF4.6V5FDFX		Port Fuel-Injected	Normal
4	2.3	L	1995				Y	N	N	Y	Y	Y		Y	SSZ2.318GFEA	SSZ1046B4M00	Throttle-body	Normal
6	3	L	2001	OBD II	California	LEV	Y	N	N	Y	Y	Y	Y	Y	1FMXR0115BAE	1FMXV03.0VF3	Port Fuel-Injected	Normal
4	2.2	L	1997		California		N	N	N	Y	Y	Y	Y	Y	VHN2.2VJGKFK	VHN1090AYMEA	Port Fuel-Injected	Normal
8	4.3	L	1996		California		Y	N	N	Y	Y	Y	Y	Y	TGM4.35PGFEK	TGM1098QYMBB	Port Fuel-Injected	Normal
8	4.6	L	1994	OBD I			Y	N	N	Y	Y	Y	Y	Y	RFM1045AYPOA	RFM4.6V8GAEA	Port Fuel-Injected	Normal
8	5.9	L	1995	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	N	SCR5.988GAEA	SCR1065AYPOA	Port Fuel-Injected	Normal
4	1.6	L	1992	No OBD			Y	N	N	Y	Y	Y	Y	Y	NSK1.6T5FFC8		Throttle-body	Normal
4	2.5	L	1992	No OBD	USEPA		Y	N	N	N	Y	Y	Y	N	PCR2.5V5FBDO	PVASB	Carb	Normal
4	2	L	1998	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	WHNXT02.0UF1	WHNXE0080AAB	Port Fuel-Injected	Normal
8	5.7	L	1999	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	XGMXT05.7183	XGMXE0133913	Port Fuel-Injected	Normal
4	2.2	L	1993	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	PFJ2.2V5FFE4	HU	Port Fuel-Injected	Normal
6	3.4	L	2003		California	NLEV	Y	N	N	Y	Y	Y	Y	Y	3GMXT034141	3GMXR0212923	Port Fuel-Injected	Normal
6	4		1998	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	WFMXT04.0GAA	WFMXE0105BBE	Port Fuel-Injected	Normal
8	5.7	L	1996	OBD II	California		Y	N	N	Y	Y	Y	Y	Y	TGM5.76PGFEK	TGM1098AYPBA	Port Fuel-Injected	Normal
6	3.3	L	1996	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	TCR3.38GKEK	TCR1098QYPBA	Port Fuel-Injected	Normal
8	4	L	2000	OBD II	USEPA	LEV	N	N	N	N	Y	Y	Y	Y	YCRXT0242230	YCRXE0101G2S	Port Fuel-Injected	Normal
6	3.9	L	1999	OBD II			Y	N	N	N	Y	Y	Y	Y	XCRXT03.92B1	XCRXE0101GCH	Port Fuel-Injected	Normal
4	1.8		1995	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	STY1.8VJGFFA	STY1047DYM00	Port Fuel-Injected	Normal
6	3.3	L	1995	OBD I	California		Y	N	N	Y	Y	Y	Y	Y	SCR3.3V8GFEA	SCR1095AXP01	Port Fuel-Injected	Normal
8	5	L	1988	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	?	JFM5.0V5HBF3		Port Fuel-Injected	Normal
6	3.5	L	2002	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	2SZXT03.52KK	2SZXR0176PE0	Port Fuel-Injected	Normal
6	3.4	L	2002	OBD II			Y	N	N	Y	Y	Y	Y	Y	Missing sticker	Missing sticker	Port Fuel-Injected	Normal
8	4.9	L	1992		USEPA		Y	N	Y	Y	Y	Y		Y	NFM4.9T5HGJ4		Port Fuel-Injected	Normal
8	5.9	L	2002	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	2CRXT05.9582	2CRXE0101GDH	Port Fuel-Injected	Normal
6	3.3	L	2001	OBD II			Y	N	N	Y	Y	Y	Y	Y	1CRXT03.32DT	1CRXR0165XAA	Port Fuel-Injected	Normal
6	3.8	L	2000	OBD II			N	N	N	Y	Y	Y	Y	Y	YGMXV3.8042	YGMXR0133910	Port Fuel-Injected	Normal
4	2.5	L	1998	OBD II	USEPA		N	N	N		Y	Y	Y		WCRXT02.51B0	WCRXE0101GCS	Port Fuel-Injected	Normal
6	4.3	L	2001	OBD II	California	LEV	Y	N	Y	Y	Y	Y	Y	Y	1GMXT04.3187	1GMXE0095904	Port Fuel-Injected	Normal
8	5		1986	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	GFM5.0V5HBF9	?	Port Fuel-Injected	Normal
8	4.9		1992	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	N2G4.9V8X6A8	NB0-2B	Port Fuel-Injected	Normal
6	3.7	L	2004	OBD II	California	Non tier 2	Y	N	N	N	Y	Y	Y	Y	4CRXT03.72N0	4CRXR0155GCH	Port Fuel-Injected	Normal
4	2.2			OBD II	No sticker												Port Fuel-Injected	Normal
6	3.3	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WCRXT03.32BP	WCRXE0101XAA	Port Fuel-Injected	Normal
6	4	L	2002	OBD II	USEPA/California		Y	N	N	Y	Y	Y	Y	Y	2FMXR0155BBE	2FMXT0402F3	Port Fuel-Injected	Normal
4	2.3	L	1994	No OBD	Unknown		Y	N	N	N	Y	Y	Y	N	Unknown no sticker	Unknown no sticker	Port Fuel-Injected	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4	2.3	L	1996	OBD II	USEPA		Y	N	N	Y	N	Y	Y	Y	TFM1045AYPBA	TFM2.318GFEK	Port Fuel-Injected	Normal
6	3	L	1995	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	SFM1045AYMOA	SFM3.0V8GFEA	Port Fuel-Injected	Normal
4	2.2	L																
8	5.7	L	1994		USEPA		Y	N	N	Y	Y	Y	Y	Y	R365.785GAEB	R361085A4MOA	Throttle-body	Normal
6	3.8	L	1993		USEPA		Y	N	N	Y	Y	Y	Y	Y	PFM3.8V5FJFO		Throttle-body	Normal
6	3.8		1993	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	P163.8V8JGB4	PB0-1R	Port Fuel-Injected	Normal
6	3.1		1994		USEPA		Y	N	N	Y	Y	Y	Y	Y	R1G3.1V7GAEA	R1G1058AYMOA		
6	3.8	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WFMXE0140BBE	WFMXT03.8ABA	Port Fuel-Injected	Normal
6	2.9	L	1993	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	PV2.9V5F951	E3	Port Fuel-Injected	Normal
4	2.3	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	RFM2.3V5HWFO		Port Fuel-Injected	Normal
6	4.3	L	1996	OBD II	California		Y	N	N	Y	Y	Y	Y	Y	TGM4.32PGKEK	TGM1089AYMEA	Port Fuel-Injected	Normal
6	3.8	L	2002	OBD II	California	NLEV, LEV	Y	N	N	Y	Y	Y	Y	Y	2CRXT03.8D1	2CRX0165GCA	Port Fuel-Injected	Normal
6	4.3	L	1996	OBD II						Y	Y	Y	Y	Y	No sticker	No sticker		Normal
6	2.7	L	1988		California		Y	N	N	N	Y	Y	Y	Y	EV40	JBM2.7V5F359	Port Fuel-Injected	Normal
6	3.1	L	1995	No OBD	California		Y	N	N	Y	Y	Y	Y	Y	S1G3.1V8GFA	S1G1058QYMOA	Port Fuel-Injected	Normal
6	3.8		1996	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	TCR3.82BGFEK	TCR109BAYPBA	Port Fuel-Injected	Normal
6	3	L	1994		USEPA		Y	N	N	Y	Y	Y	Y	Y	RFM1045AYPOA	RFM3.078GAFA	Port Fuel-Injected	Normal
4	1.9			No OBD			N	N	N	N	Y	Y	Y	Y			Port Fuel-Injected	Normal
6	2.4	L	1995	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	SNS2.41JGFEA	SNS1030BYMOB	Port Fuel-Injected	Normal
6	3	L	1993	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	PCR3.0T5FFX1	PTASC	Port Fuel-Injected	Normal
6	3.3	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	SCR3.328GFEA	SCR1095AYMOA	Port Fuel-Injected	Normal
6	3	L		OBD II											TFM3.028G1HK	TFM1057BYMBB	Port Fuel-Injected	Normal
8	5.7	L	1978	No OBD	USEPA		Y	Y	N	N	Y	N	N	N	840J4U	8BFV	Carb	Normal
4	1.9	L	2001	OBD II	California	NLEV	Y	N	Y	Y	Y	Y	Y	Y	1GMXV01.9002	1GMXR0080902	Port Fuel-Injected	Normal
6	3	L	Unk	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	No Sticker	No Sticker	Port Fuel-Injected	Normal
6	3	L	2002	OBDII	USEPA		Y	N	N	Y	Y	Y	Y	Y	2FMXT03.01F7	2FMXR0115BBE	Port Fuel-Injected	Normal
8	5	L	1979	No OBD			Y	Y	N	N	Y	N	N	N	45.0 (2X124)		Carb	Normal
4	2.3	L	1998	OBD II	California	LEV	N	N	N	Y	Y	Y	Y	Y	WHNXV02.3PA3	WHNXR0130AAA	Port Fuel-Injected	Normal
8	5.4	L	2001	OBD II	California	LEV	N	N	N	Y	Y	Y	Y	Y	5.4L - 1FMXE0155B4	1FMXT05.4RF7	Port Fuel-Injected	Normal
6	3	L	1993	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	PT43.0T5FBE4	EV-E	Port Fuel-Injected	Normal
4	2	L	1994	OBD I	USEPA		Y	N	N	N	Y	Y	Y	Y	R162.0U76FEA	R161046AYMOA	Port Fuel-Injected	Normal
4	2	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	2.0L - WFMXR0080E	WFMXV02.0BFA	Port Fuel-Injected	Normal
6	3	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	3.0L VFM1115AYME	VFM3.0V8GKEK	Port Fuel-Injected	Normal
6	3.8	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	3.8L - WFMXE0140B	WFMXT038ABA	Port Fuel-Injected	Normal
6	3	L	1998	OBD II	California	LEV	N	N	N	Y	Y	Y	Y	Y	WTYXV03.0GXB	WTYXE0095AE1	Port Fuel-Injected	Normal
6	4	L		OBD I	USEPA		Y	N	N	N	Y	Y	N	N	PFM4.0T5F44X	F3AE9L485JBL	Port Fuel-Injected	Normal
6	3.8	L	1979	No OBD	USEPA		Y	Y	N	Y	Y	Y	N	N	3.8L 940B2	9B3-4	Carb	Normal
6	5.7	L	1988				Y	N	N	N	Y	Y	Y	Y	JAM4.0T5LN01	JT-4.OH-1S	Port Fuel-Injected	Normal
4	1.5	L	1998	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WTKXV01.5VBA	WTKXE0104BFA	Port Fuel-Injected	Normal
4	85.2 CID		1979	No OBD	USEPA		Y	Y	N	Y	Y	N	N	N	A140F	EVP-CARB-2	Carb	Normal
6	3.1	L		OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	WGMXV03.1041	WGMXE0095904	Port Fuel-Injected	Normal
8	5.2	L	1993	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	PCR5.9TSEY4	PTAPH	Port Fuel-Injected	Normal
6	2.8	L	1977	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	LZ80C		Port Fuel-Injected	Normal
4	1.8	L	1999	OBD II	USEPA/California		N	N	N	N	Y	Y	Y	Y	XHNXV01.8CA3	XHNXR009AAD	Port Fuel-Injected	Normal
6	2.5	L	1989	OBD I	USEPA		Y	N	N	Y	Y	Y	Y	Y	KT42.5V5FFF7	EV-E	Port Fuel-Injected	Normal
6	305	In ³	1978	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	Y	310L4	8BFV	Carb	Normal
6	4.9	L		No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	No Label	No Label	Port Fuel-Injected	Normal
6	3	L	1996	OBD II	USEPA					Y	Y	Y			TNS3.028GKEK	TNS1057BYUBB	Port Fuel-Injected	Normal
6	3.8	L	1990	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	L2G3.8V8XEB2	LBO-2D	Port Fuel-Injected	Normal
6	4.9	L	1987	No OBD	USEPA		Y	N	N	Y	N	Y	Y	N	HFM4.9T5HGF1	7HM	Port Fuel-Injected	Normal
6	4	L	2000	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	4.0L-YFMXE0105BB	YFMXT04.02BD	Port Fuel-Injected	Normal
8	7.5	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	KFM07.5BTAX	9HN	Port Fuel-Injected	Normal
	350	In ³	1978		USEPA		Y	N	N	Y	Unk	Y		N	830M4U	8BFU	Carb	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake	
8	5.7	L	1997	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	VGM5.76P6FEK	VGM1098AYMBA	Port Fuel-Injected	Normal	
6	3.3	L	1999	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	XCRXT03.32BP	XCRXE0101XAA	Port Fuel-Injected	Normal	
4	2.5	L	1992	No OBD	USEPA		Y	N	N	N	Y	Y	Y	N	NCR2.5T5FGF0	NCRTA	Port Fuel-Injected	Normal	
4	2.3	L	1992	OBD I	USEPA		N	N	N	N	Y	N	Y	Y	NFM2.3T5FMG1	9HM	Port Fuel-Injected	Normal	
6	3		1992	No OBD	USEPA		N	N	N		Y	Y	Y	Y	NFM3.0T5FZF0		Port Fuel-Injected	Normal	
6	4.9	L	1996	OBD II			Y	N	N	Y	Y	Y	Y	Y	TFM1045AYMBB	TFM4.968GFUK	Port Fuel-Injected	Normal	
4	1300 CC		1973				Y	Y	N	N	N	N	N	N			Carb	Normal	
4	2.5		Not listed	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	No Label	No Label	Port Fuel-Injected	Normal	
6	3.7		1987	No OBD	USEPA		Y	Y	Y	Y	Y	Y	Y	N	No Label	No Label	Carb	Normal	
4	2.2	L	1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	No Sticker	No Sticker	Port Fuel-Injected	Normal	
8	4.2	L	2002	OBD II	California	NLEV	N	N	N	Y	Y	Y	Y	Y	2GMXT04.2185	2GMXR0175922	Port Fuel-Injected	Normal	
8	5	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	KFM5.0V5HBF4	9HM	Port Fuel-Injected	Normal	
4	2	L	1989	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	KHN2.0V5FNF9	89FG	Port Fuel-Injected	Normal	
5	2.5	L	1996	OBD II	California		N	N	N	Y	Y	Y	Y	Y	THN2.5VJGKEK	THN100BYMAR	Port Fuel-Injected	Normal	
6	3.5	L	2002	OBD II	USEPA/California	LEV	N	N	N	Y	Y	Y	Y	Y	2HNXT03.51AP	2HNXR0160AAA	Port Fuel-Injected	Normal	
6	3.5		2004	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	4KMXT03.5F03	4KMXR0160F03	Port Fuel-Injected	Normal	
6	3.8	L	2002	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	2CRXT03.82D1	2CRXR0165GCA	Port Fuel-Injected	Normal	
6	3.5	L	2003	OBD II	California		Y	N	N	N	Y	Y	Y	Y	3HNXT03.5ZAP	3HNXR0160AAA	Port Fuel-Injected	Normal	
6	4	L	2001	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	1CRXT04.02D1	1CRXE0101GCS	Port Fuel-Injected	Normal	
6	3.3	L	2003	OBD II		LEV	Y	N	N	N	N	Y	Y	Y	3CRXT03.3DP	3CRXR0177XAA	Port Fuel-Injected	Normal	
6	3	L	2001	OBD II	California	LEV	N	N	N	N	N	Y	Y	Y	1TYXT03.0FFP	1TXXR0150AK1	Port Fuel-Injected	Normal	
6	3.3	L	2002	OBD II	USEPA/California	EPA NLEV	Y	N	N	N	N	Y	Y	Y	2CRXT03.32DP	2CRXR0165XAA	Port Fuel-Injected	Normal	
6	3.3	L	2003	OBD II	USEPA/California	LEV	Y	N	N	N	N	Y	Y	Y	3CRXT03.3DP	3CRXR0177XAA	Port Fuel-Injected	Normal	
6	3.3	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	L2G3.3V8JAWJ	LB0-2F	Port Fuel-Injected	Normal	
6	3	L	1988	No OBD	USEPA		Y	N	N	N	Y	Y	Y	N	JCR3.0T5FBHX	JCRTC	Port Fuel-Injected	Normal	
4	14.1	In ³	1987	No OBD	USEPA/California		Y	N	N	N	Y	Y		Y	HVV2.3V5FFT2	E3	Port Fuel-Injected	Turbocharged	
4	2.2	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y		Y	S1G2.2V7GFEA	S1G1089AYMOA	Port Fuel-Injected	Normal	
4	2.5		1989	No OBD	USEPA		Y	N	N	N	Y	Y	Y		KCR2.5V5FB06	KCRVB	Port Fuel-Injected	Normal	
4	1.9		1987	No OBD	USEPA		Y	Y	N	N	Y	Y		Y	HFM1.9V5FFF1	Unknown	Carb	Normal	
6	4	L	1994	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	RFM1045AXPOA	RFM4.028GFEA	Port Fuel-Injected	Normal	
6	3.5		2001	OBD II	USEPA						Y	Y	Y	Y	INSXT03.5C7A	INSXE0110MBA	Port Fuel-Injected	Normal	
6	3.9		1987	No OBD	USEPA		Y	Unk	Unk	Y	Y	Y	Y	Unk	HCR3.9T2HGC4	HCRT1	Carb	Normal	
4	2	L	1988	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	JHN2.0V5FNF8	88FG	Port Fuel-Injected	Normal	
6	4.3	L	1995		USEPA		Y	N	N	N	Y	Y	Y	Y	53G4.375GAEA	53G1089AYMOA	Carb	Normal	
4	145.8	In ³	1988	No OBD	USEPA		Y	Y	N	N	Y	Y		N	JNS2.4T5HDF2	TBI-7	Carb	Normal	
6	3.1	L	1990	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	Y	L3G3.1T5XAT7	LB0-3D	Carb	Normal	
8	350	In ³	Not listed	No OBD	USEPA		Y	N	N	N	N	N	N	N	Not listed	Not listed	Carb	Normal	
6	3.8	L	1990	No OBD	USEPA		Not listed	N	N	N	Y	Y	Y	Y	Not listed	Not listed	Port Fuel-Injected	Normal	
4	2.5	L	1988	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	JCR2.5V5FBE6	JCRVB	Port Fuel-Injected	Normal	
8	4.5		1990	No OBD	USEPA		N	N	Y	Y	Y	Y	Y	Y	L2G4.5V8NKA1	L130-213	Port Fuel-Injected	Normal	
6	3.1		1990	No OBD	USEPA					Y	Y	Y	Y	Y	LG3.1T5XAT7	LB0-3D	Carb	Normal	
6	4.3	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	K3G4.3T5TAA1	KF0-3B	Port Fuel-Injected	Normal	
6	3	L	1988	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	JCR3.0T5FBHX	JCRTC	Port Fuel-Injected	Normal	
8	5.8	L	1982	No OBD	USEPA		Y	Y	N	N	Y	Y	Y	N	CFM5.8T2HBF9	2EQ	Carb	Normal	
6	3.3	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	L2G3.3V8JAW5	LB0-2F	Port Fuel-Injected	Normal	
8	5	L	1988	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	JFM5.8T5HZB7	5.0L-8HM	Port Fuel-Injected	Normal	
6	3	L	1989	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	KTY3.0T5FBEX	EV-E	Port Fuel-Injected	Normal	
6	2		1989	No OBD	USEPA		Y	N	N	N	Y	Y	Y	N	K1G2.0V5JFG0	KA0-1E	Port Fuel-Injected	Normal	
4	2.3		1989	No OBD	USEPA		Not provided/torn	N	N	N	Y	Y	Y	Y	Unk	Not provided/torn	Not provided/torn	Port Fuel-Injected	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake
4	1.6	L	1983	No OBD	USEPA		N	Y	N	Y	Y	Y	Y	Y	DTY1.6V2HFF1	EV-A	Carb	Normal
4	2.5		1990	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	LCR2.5V5FB07	LCRVB	Port Fuel-Injected	Normal
4	2		1988	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	JHN2.0V5FNF8	88FG	Port Fuel-Injected	Normal
8	6.6		1979	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	N	S30M4U	9134-3	Carb	Normal
6	3.8		1991	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	M2G3.8V8XEB3	MBOP-20	Port Fuel-Injected	Normal
8	5	L	1983	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	DIG5.7T4HAC6	3D45-B	Port Fuel-Injected	Normal
8	5	L	1990	No OBD	USEPA		N	N	Y	Y	N	Y	Y	Y	LFM5.8T5HZ89	9HM	Port Fuel-Injected	Normal
4	2.2	L	1983	No OBD	USEPA		N	Y	N	Unk	Y	Y	Y	Unk	No sticker	No sticker	Carb	Normal
8	5		1989	No OBD	USEPA		Y	Unk	Y	Y	Y	Y	Y	Unk	K2G5.0V4NLAB	KB4-2A	Carb	Normal
6	3.8	L					Y	N	N	Y	Y	Y	Y	Y	K2G3.8V8XEB1	KBO-2D	SFI	Normal
8	5		Unknown/r	No OBD	USEPA		Y	Y	Unk	N	N	N	N	N	No sticker	No sticker	Carb	Normal
8	5.7	L	1988	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	N	J3G5.7T5TYA2	JF0-3C	Carb	Normal
8	350	In³	1976	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	N	10J2		Carb	Normal
6	4.9	L	1986	No OBD	USEPA		Y	Y	N	Y	Y	Y		N	GFM4.9T1HGG7	GGM	Carb	Normal
4	2.9	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	LFM2.9T5FMF1	9HM	Port Fuel-Injected	Normal
8	4.9		1988	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	JFM4.9T5HGE4	E8AE-9C48S-AFB	Port Fuel-Injected	Normal
6	2.5	L	1990	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	LTU2.5V5FFB8	EV-E	Port Fuel-Injected	Normal
6	2.8		1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	K1G3.1V8XG24	KB0-1K	Port Fuel-Injected	Normal
6	4.1	L	1983	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Unk	DTG4.1T2HHS0	3D68	Carb	Normal
8	5		No label	No OBD	No label	No label	Y	Unk	Unk	Y	Y	Y	Y	Unk	No label	No label	Port Fuel-Injected	Normal
4	2.8	L	1988	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Unk	J1G2.8WBXRZ2	JB0-12	Port Fuel-Injected	Normal
6	4.3		1992	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	N3G4.3TBXB2	NB0-3E	Carb	Normal
6	5		1985	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	N	F1G5.7V4NEA4	584-1A	Carb	Normal
8	6.5		1978	No OBD	USEPA		Y	Y	N	Y	Y	Y	N	N	351M/400EGR		Carb	Normal
4	2.4	L	1987	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	HTY2.415FBT8	EV-E	Port Fuel-Injected	Turbocharge
8	5	L	1987	No OBD	USEPA		Y		N	Y	Y	Y	Y	Y	H2G5.0V4NLA3	7B4-2A	Carb	Normal
6	250	In³	1976	No OBD	USEPA		Y	Y	N	Y	Y	N	Y	N	10F1		Carb	Normal
8	350	In³	1973	No OBD	USEPA/California		Y	Y	Unk	Unk	Y	N	N	N	GM104	None listed	Carb	Normal
6	4.9	L	1990	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	Y	LFM4.9T5HGF7	9HM	Port Fuel-Injected	Normal
8	3.8	L	1980	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	N	01E2F	OB3-1	Carb	Normal
8	5.7	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	K305.7T5TYA3	KDO-3C	Carb/Throttle-body	Normal
4	2.8	L	1987		USEPA		Y	Y	Y	Y	Y	Y	N	N	Not readable	Not readable	Carb/Throttle-body	Normal
6	3.8	L	2003	OBD II	California	LEV	Y	N	N	N	N	Y	Y	Y	3CRXT03.82D0	3CRXR0177GCA	Port Fuel-Injected	Normal
4	2.3	L	1989	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	N	KFM2.3T5FNFX	9HM	Port Fuel-Injected	Normal
8	5	L	1984	No OBD	USEPA		Y	Y	Y	Y	Y	Y	Y	N	E1G5.7V4NEA3	4B4-1A	Carb	Normal
4	1.9	L	1994	No OBD	USEPA/California		Y	N	N	Y	Y	Y	Y	Y	R4G1.9V5GEEA	R41035AYPOA	Port Fuel-Injected	Normal
4	2.3	L	1979	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	N	2.3(T)F1XL2	B	Carb	Turbocharge
4	1.6	L	1974	No OBD	USEPA		N	N	N	N	Y	N	N	N			Carb	Normal
4	2.2	L	1988		USEPA		Y	N	N	Y	Y	Y	Y	N	JTK2.2T2HFG7	G	Carb	Normal
4	1.6	L	1999	OBD II	USEPA		Y	N	N	N	Y	Y	Y	Y	XTKXV01.6VBB	XTKXR0125BFB	Port Fuel-Injected	Normal
8	5	L	1989		USEPA		Y	N	N	Unk	Y	Y	Y	Unk	K3G5.7T5TYA3	KF0-3C	Carb/Throttle-body	Normal
6	3.1		1990		USEPA		Y	N	N	Y	Y	Y	Y	Y	L1G3.1V8XG.25	LB0-1K	Carb	Normal
6	4.2	L		No OBD	USEPA		Y	Y	Y	N	N	Y	N	N	No Sticker	No sticker	Carb	Normal
4	2.2	L	1991	No OBD	USEPA		Y	N	N	Y	Y	Y	Unk	Y	M1G2.2V5JFG3	MAOP-1E	Carb	Normal
6	3.3	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	L2G3.3V8JAW6	LBO-2F	Port Fuel-Injected	Normal
6	3.3	L	1982	No OBD			Y	Y	N	Y	Y	Y	Y		CFM3.3V1GXF9	2AM	Carb	Normal
6	3	L	1990	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	LFM3.0T5FYK3	9HM	Port Fuel-Injected	Normal
4	2.5		2001	OBD II	USEPA/California		N	N	N	Y	Y	Y	Y	Y	1FXJX02.SJEH	1FXJR01251BB	Port Fuel-Injected	Normal
4	2.2		2001	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	1TYXV02.2JA	1TYXR0135AK1	Port Fuel-Injected	Normal
6	3		2002	OBD II	USEPA		N	N	N	Y	Y	Y	Y	Y	2FMXT03.01F7	2FMXR0115BBE	Port Fuel-Injected	Normal
8	350	In³	1976	No OBD	USEPA		Y	Unk	Unk	Y	N	Y	N	Unk	GM20KL		Carb	Normal
4	2.5	L	1984	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	E2G2.5VSTPG7	4A0-2A	Carb	Normal
6	3.8	L	1990	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	L2G3.8V8XEB2	LBO-2D	Port Fuel-Injected	Normal
4	Unk	L	1990	No OBD			Unk	N	N	Y	Y	Y	Y	Y	No sticker	No sticker	Port Fuel-Injected	Normal
8	5	L	1986	No OBD	USEPA		Y	Y	Y	Y	Y	Y	Y	N	G1G5.7T4HHC1	6D4S-8	Carb	Normal

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No of Cyls	Disp	Disp Units	Engine Cert Year	OBD Type	Emiss Cert Type (s)	Emiss Cert Details	PCV	TAC	AIS	EGR	Evap	Cat	FIR	Ox	Engine Family #	Evaporative Family #	Fuel Delivery Type	Air Intake	
4	4.9	L	1978	No OBD	No sticker	No sticker	N	N	N	Y	Y	Y	Y	Y	No sticker	No sticker	Carb	Normal	
	2	L	Unk			Unk	N	N	N	Y	Y	Y	Y	Y	Unk	Unk	Port Fuel-Injected	Normal	
6	4.3	L	1985	No OBD	USEPA		N - OEM re	N - OEM re	N	Y	Y	Y	Y	N	FIG4.3V5NDA7	580-1C	Throttle-body	Normal	
8	5.7	L	1979	No OBD	USEPA		Y	Y	N	Y	Y	Y	Y	N	912K48	9B4-T	Carb	Normal	
6	3		2004	OBD II	USEPA/California	ULEV	N	N	N	Y	Y	Y	Y	Y	SFMXT03.01FE	SFMXR0150GAL	Port Fuel-Injected	Normal	
4	2		2005	OBD II	USEPA		Y	N	N	Y	Y	Y	Y	Y	5FMXV0231D4	5FMXR0120GAK	Port Fuel-Injected	Normal	
6	3.3	L	2003	OBD II	California	LEV	Y	N	N	N	N	Y	Y	Y	3CRXT03.32DR	3CRXR0177XAA	Port Fuel-Injected	Normal	
6	3.3		1992	No OBD	USEPA		N	N	N	N	Y	Y	Y	Y	NCR3.31SFGF7	NCRDT.NCRTE	Port Fuel-Injected	Normal	
6	4.9	L	1995	No OBD	USEPA		Y	N	Y	Y	Y	Y	Y	Y	SFM4.9880AJA	SFM1045AYAM0A	Port Fuel-Injected	Normal	
6	4.3	L	1994	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	R3G4.389GAEA	R3G1085AYM08	Port Fuel-Injected	Normal	
6	3.3	L	2000		USEPA		Y	N	N	Y	Y	Y	Y	Y	YCRXT03.32BP	YCRXE010XAA	Port Fuel-Injected	Normal	
8	5.7		1997	OBD II	USEPA				N	Y	Y	Y	Y	Y	VGM5.76PGFEK	VGM1098AYMBA	Port Fuel-Injected	Normal	
6	3.4	L	1998	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	WTYXT03.4DBP	WTYXE0095AEO	Port Fuel-Injected	Normal	
4	2.4		1998	OBD II	USEPA		N	N	N	N	Y	Y	Y	Y	WNST02.443C	WNXSXE0110MBA	Port Fuel-Injected	Normal	
8	4.9	L	1995	No OBD	USEPA		Y	N	N	Y	Y	Y	Y	Y	SFM1045AYMOC	SFM4.988GAJA	Port Fuel-Injected	Normal	
6	3	L	1995	No OBD	USEPA		Y	N	N	N	Y	Y	Y	Y	SCR3.02B0GFEA	SCR1095AYMOA	Port Fuel-Injected	Normal	
Unknown	Unknown		1992	No OBD			Unk	N	N	N	Unk	Y	Y	Y	No sticker	No sticker	Carb	Normal	
6	3.3		No sticker	No OBD			N	N	N	N	Y	Y	Y	Y	No label	No label	Port Fuel-Injected	Normal	
6	4.3	L	1993	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	P3G4.3TBXE84	P80-3H	Port Fuel-Injected	Normal	
4	2.5	L	2002	OBD II	USEPA	LEV	N	N	N	Y	Y	Y	Y	Y	2CRXT03.3DP	2CRXR0165XAA	Port Fuel-Injected	Normal	
8	5		1989	No OBD	USEPA		N	N	N	Y	Y	Y	Y	Y	TCR2.518GFEK	TCR1049AYMBN	Port Fuel-Injected	Normal	
							Unk	Unk			Y	Y	Y	Unk	KFM5.6T5HZZ4	9HM	Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD			Y	N	N	Unk	Y	N	Y	Y			Port Fuel-Injected	Normal	
6	3	L	1988	No OBD															

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84032	2001 Chevrolet Cavalier	07/14/2004	57066	3000	6.4	82.3	743.98	55.9	Traction Control (TCS) engaged 100 sec	PH1 & 3.									
84154	1979 Ford F150 PU	08/10/2004	53503	3500	11.7	78.4	746.42	33.7	6Cyl. Runs very rough. Leaking multiple fluids. Difficulty maintaining trace. Tailpipe came off during the soak and the first 90 seconds of bag three was lost. Bag1 HC realtime off scale...using bag										
									No dyne test										
84034	1999 IsuzuTrooper	07/14/2004	63387	4500	14.8	84.1	743.95	59.4	0										
84035	2001 GMC Yukon	07/14/2004	75374	5500	18.8	85.6	743.69	58.1	0										
84036	1995 Ford Escort	07/15/2004	102663	2750	5.6	80.5	744.40	65.7	0										
84037	1979 Ford F250	07/15/2004	02285	3500	10.5	83.2	744.24	58.5	0										
									No dyne test										
									No dyne test										
84040	1990 Dodge Spirit	07/16/2004	109270	3000	8.7	81.0	742.12	75.6	0										
84039	2001 Ford F150	07/16/2004	48831	5500	16.2	79.5	741.88	79.7	0										
84042	1996 Honda Civic	07/17/2004	131492	2500	6.9	76.0	744.70	75.6	Engine stalled several times.										
84043	1991 Honda Civic	07/17/2004	216571	2500	6.9	77.5	744.79	70.5	0										
84047	1996 Mazda 626	07/19/2004	26614	3000	7.7	79.9	742.88	66.2	0										
84048	1989 Dodge Caravan	07/19/2004	161033	3500	7.6	83.2	742.61	63.9	0										
									No dyne test										
84051	1995 Chevy Corsica	07/20/2004	111484	3000	5.9	84.0	741.71	71.8	0										
84050	2002 Honda Civic	07/20/2004	50405	3000	5.3	82.0	741.60	80.3	Coolant on dyro after testing										
84054	1995 GMC Jimmy	07/20/2004	102924	3500	10.7	84.1	741.80	47.5	0										
84052	1988 Olds Cutlass	07/20/2004	81545	3000	6.4	89.1	741.77	60.0	AC on/switch broken										
84055	1998 Jeep Cherokee	07/20/2004	131884	3500	11.8	95.8	741.76	50.1	Rattling catalyst possibly bad.										
84061	1990 Chevy Cavalier	07/21/2004	81297	2750	5.6	91.5	742.43	57.7	0										
84058	1999 Chrysler 300M	07/21/2004	73246	3500	5.8	87.3	741.73	65.2	0										
84057	2001 Saturn SL1	07/21/2004	51541	2500	6.1	85.9	742.52	69.2	0										
84060	1998 Buick LeSabre	07/21/2004	45455	3500	5.9	90.3	742.64	63.8	0	84062	1998 Buick Lesabre	07/22/2004	45483	3500	5.9	83.9	743.49	80.3	Dups.
84056	2002 Nissan Frontier P/U	07/21/2004	38153	4500	16.5	85.4	742.31	70.3	0										
84074	1986 Nissan P/U	07/24/2004	138620	3500	11.4	60.2	748.73	88.5	0										
84063	1998 Saturn SC	07/22/2004	74642	2500															

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84224	2002 Ford Taurus	08/27/2004	72468	3500	6.5	83.1	743.18	52.9	0										
84219	1994 Chrysler Concorde	08/26/2004	169018	3500	7.8	78.6	741.31	64.8	0										
84231	1994 Olds Eighty Eight	08/28/2004	128014	3500	6.5	75.5	746.31	50.4	0										
84221	985 Ford LTD Crown Victori	08/26/2004	100260	3500	9.3	82.2	741.60	54.3	new muffler and tailpipe										
84220	1992 Ford Escort	08/26/2004	12788	2750	6.4	80.0	741.53	60.0	0										
84225	2000 Honda Civic LX	08/27/2004	35766	2750	7.0	83.8	743.29	49.6	0										
84227	1997 Buick Century	08/27/2004	86430	3500	5.9	85.8	743.32	46.2	0										
84228	1992 Pontiac Grand Am	08/27/2004	140191	3000	4.7	86.7	742.99	44.8	Manual Transmission Stalled once in bag 2										
84223	2005 Dodge Caravan	08/27/2004	18159	4000	8.0	82.2	743.01	56.8	0										
84233	1989 Toyota Corolla	08/28/2004	181875	2500	5.9	76.5	745.80	44.7	0										
84230	1993 Nissan Sentra	08/28/2004	87073	2500	6.2	75.5	745.71	53.8	0										
84229	2000 Olds Silhouette	08/28/2004	85292	4000	11.5	77.6	745.36	55.2	Change oil light on.										
84234	1991 VW Cabriolet	08/30/2004	63829	2750	8.0	71.0	747.73	74.0	0										
84239	1987 Ford Taurus	08/30/2004	33610	3000	6.9	79.8	747.95	31.5	Losing coolant (oil mix ?)..but not overheating..stopped Ph2 @ 1300 sec.										
84238	1988 Pontiac 6000 Wagon	08/30/2004	133737	3500	6.8	78.6	747.89	37.4	No dyne test Shut off twice during initial idle..possible exhaust leak.										
84236	1992 Olds Achieva	08/30/2004	177104	3000	4.9	75.1	748.17	59.1	0										
84235	1990 Geo Prizm	08/30/2004	176712	2500	6.9	73.0	747.94	63.6	Bag 1 did not fill..Realtime ok..Engine cut off at 10 sec.										
84244	1992 Ford Escort	08/31/2004	11345	2750	7.4	80.8	749.36	45.4	0										
84241	1998 Ford Contour	08/31/2004	118535	3000	4.8	77.0	749.88	12.8	0										
84245	1987 Honda Accord	08/31/2004	19268	2750	6.0	81.8	748.95	24.3	0										
84240	1998 Infiniti I30	08/31/2004	50005	3500	6.4	74.7	749.62	40.4	0										
84242	1997 Plymouth Voyager	08/31/2004	70430	3500	6.7	79.2	749.90	10.4	0										
84246	1994 Eagle Talon	09/01/2004	109747	3500	10.6	74.7	749.13	49.7	Cut off during first 10 seconds of Ph 1										
84248	1987 Ford Ranger	09/01/2004	1705	3000	10.4	79.3	749.91	48.9	No rear brakes, brake lines leaking profusely.										
84257	1983 Volvo GL	09/02/2004	184224	3000	10.5	82.1	746.06	37.1	0										
84256	1989 Chevy S10 P/U	09/02/2004	174034	3000	10.4	81.7	746.47	36.9	Roll/tire slippage on Ph1										
84250	1987 Ford Escort	09																	

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84272	2001 Honda Accord	09/11/2004	39702	3500	7.8	72.3	748.03	65.2	0										
84273									No dyne test - dyne test voided										
84278	1990 GMC Jimmy	09/11/2004	130254	3500	14.5	79.9	747.05	33.7	No Bag Data										
84277	1978 MG MGB	09/11/2004	42926	2750	6.1	79.3	747.54	30.4	0										
84286	1997 Olds. Silhouette	09/14/2004	111026	4000	10.1	80.7	743.51	53.0	Traction control began to work @ the start of bag 3. disabled it by restarting the engine										
84285	2000 Honda Civic	09/14/2004	46677	2750	7.0	79.2	743.39	56.1	YHNXV01.6TA3										
84287	1995 GMC Sierra P/U	09/14/2004	171370	4000	12.2	83.5	743.31	49.8	Tailpipe Missing.Ran 6' of silicone tubing to get the exhaust to the back of the vehicle.										
84291	1997 Honda Civic	09/15/2004	75783	2500	5.0	80.4	741.40	56.4	1.6L No dyne test										
84289	84 Olds Custom Cruiser Wag	09/14/2004	8983	4500	11.6	86.7	742.44	41.2	Mileage stated is in excess of 100K. Stalled repeatedly in bag 1. Exhaust leak @ manifold										
84293	1984 Volvo GL Wagon	09/15/2004	299703	3000	10.7	79.7	742.17	61.8	Stalled in bag 1										
84295	1987 Chevy Caprice Classic	09/15/2004	85915	4000	9.7	79.5	742.41	59.8	Stalled in bag 1. Exhayst leaks.										
									No dyne test										
84302	1993 Ford F150 P/U	09/16/2004	184984	4500	12.8	79.1	745.06	32.1	RWD. Braking Violations										
84301	1989 Pontiac Grand Prix	09/16/2004	149395	3500	4.5	78.1	745.57	31.3	3.1L. Real time Bag 1 HC off-scale.using bag value.										
84300	1990 Buick Lesabre	09/16/2004	59413	3500	6.8	77.1	746.18	33.1	Mileage stated is actual miles										
84297	1996 Dodge Stratus	09/16/2004	146579	3000	7.5	70.9	747.08	50.9	Nox Air supply was interrupted @ some point during the run. Glitch in the regulator or the cylinder valve or the bench operator? The gauges on the regulator read zero. As soon As I touched the										
84292	1997 Toyota Camry	09/15/2004	127414	3500	7.3	80.8	741.83	56.9	2.2L										
84298	1999 Dodge Durango	09/16/2004	92681	5000	16.9	74.0	746.92	44.2	5.9L										
84296	1998 Honda Civic	09/16/2004	115370	2500	5.1	68.1	746.88	64.6	Stalled in bag 1 200 seconds+-. A large truck parked out back of the building during the run which may account for the increased CO2 background.										
84304	2001 Honda Civic	09/17/2004	49751	2750	8.0	71.2	746.55	47.3	1HNXV01.7YJ9 No HP settings were listed in the database. Ran @ 6.0										
84307	1992 Honda Accord	09/17/2004	74582	3000	5.7	76.8	745.98	41.1	0										
84308	1994 Pontiac Grand Am	09/17/2004	10152																

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84505	1993 Dodge Intrepid	02/05/2005	210298	3500	6.8	54.3	749.22	40.1	0										
									No dyne test										
84509	1992 Chevrolet Astrovan	02/07/2005	217165	4000	12.5	34.0	749.18	60.4	0										
84510	1994 Chevrolet Suburban	02/07/2005	187410	5500	10.8	34.9	749.35	55.5	4 X 4										
									No dyne test										
84508	1992 Honda Civic	02/07/2005	124705	2250	4.6	34.6	748.52	63.0	0										
84512	1982 Chevrolet Caprice	02/07/2005	88587	4000	4.6	31.0	748.59	57.6	SMOKED UP ROOM/OTHER DOOR OPENED /HC-CO INSTRUMENTS PEGGED/CATALYST REMOVED PREVIOUSLY-HEADER WRAP APPLIED/										
84513	0.00	02/08/2005	VOID	0	0.0	29.3	750.53	50.1	traction control turned off at shifter but car would not get over 5 mph/void run										
84515	1999 Dodge Stratus	02/08/2005	108838	3000	5.5	28.2	750.41	58.1	0										
84514	2002 Chrysler Concorde	02/08/2005	34231	3500	7.8	27.0	750.19	56.1	DIESEL TRUCK STARTED NEXT DOOR										
84518	1994 Buick Skylark	02/08/2005	200811	3000	5.4	28.7	748.58	62.8	0										
84525	CHEVROLET ASTRO, VUI	02/09/2005	0	0	0.0	29.3	750.53	50.1	VOIDED RUN / NOT ABLE TO GET OUT OF PARK(BLANK(84523) COPIED AS 84525 TO FILL DATA BASE										
84519	1992 Dodge Caravan	02/08/2005	213493	3500	8.0	29.6	748.54	61.7	0										
84517	1998 Dodge Caravan	02/08/2005	80989	4000	7.9	27.7	748.85	62.7	0										
84526	1991 Lincoln Towncar	02/09/2005	188033	4000	7.1	35.7	750.42	86.6	0										
84524	1995 Isuzu PU	02/09/2005	87225	3000	12.0	33.8	750.57	94.9	0										
84520	2001 Ford Taurus	02/09/2005	47479	3500	6.8	26.8	751.16	52.3	0										
84521	1997 Honda Accord	02/09/2005	101888	3000	4.9	28.2	751.31	85.1	0										
84522	1996 Chevrolet 1500 PU	02/09/2005	46711	4000	29.3	29.3	751.43	103.1	0										
84528	994 Mercury Grand Marquis	02/10/2005	130521	4000	10.7	31.4	754.13	24.0	REPEAT FROM SUMMER										
84527	1995 Dodge Ram 1500 PU	02/10/2005	93425	4000	15.0	24.3	753.63	35.3	TAG # WAS USED ON 97 HONDA ACCORD IN SUMMER STUDY										
84531	1992 Geo Tracker	02/10/2005	48704	2750	14.5	40.3	752.84	17.3	34.4 OIL TEMP/										
84529	1993 Plymouth Sundance	02/10/2005	84652	2750	6.3	35.2	753.75	20.7	OIL TEMP 31.7 / ENGINE SKIPPING										
									No dyne test										
84533	1999 Chevrolet Suburban	02/11/2005	88900	5000	12.5	39.8	752.54	1.3	OIL TEMP 41.4										
84534	1993 Subaru Legacy	02/11/2005	114227																

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84568	1999 Ford Ranger PU	02/19/2005	126851	3500	9.0	45.0	749.58	61.8	OIL TEMP 49.1										
84569	1995 Ford Taurus	02/19/2005	203067	3500	5.4	45.1	749.09	62.4	OIL TEMP 44.1										
84570	1994 Chevrolet S10 PU	02/19/2005	63902	3000	9.8	45.4	748.99	64.5	OIL TEMP 44.8										
									No dyne test										
84574	1993 Ford Taurus	02/21/2005	39476	3500	5.5	37.7	747.95	67.3	Oil Temp = 43.0 F										
84573	1993 Buick Park Avenue	02/21/2005	74444	4000	6.1	36.5	747.36	71.8	Oil Temp not taken										
84575	1994 Chevrolet Lumina	02/21/2005	126825	3500	5.4	39.0	748.02	65.5	Oil Temp = 40.7 F										
84577	1998 Ford Aerostar	02/22/2005	0	4000	7.9	42.0	751.46	62.2	Oil Temp= 48.8 F; Coolant Temp = 44.6 F										
84645	1993 Volvo 960	03/12/2005	197094	3500	10.3	56.5	737.31	34.2	2.9L oil temp 50.5F. Minor exhaust leak										
84675	1993 Ford Tempo	03/18/2005	25053	2750	6.1	52.9	740.59	28.9	OIL TEMP 54.4/ SERVICE ENGINE SO	84681	1993 Ford Tempo	03/19/2005	25073	2750	6.1	41.3	747.03	68.7	DUPLICATE / OIL TEMP 50.7 /SERV
84713	1996 Chevrolet Blazer	03/25/2005	94350	4000	10.7	44.1	745.38	74.1	OIL TEMP 51.0 / KEVIN BACK										
84580	002 Chrysler Town & Count	02/23/2005	84580	4500	11.1	45.3	751.07	45.8	Traction control problem @ 180 sec of Ph1..Coolant temp = 50F										
84730	1995 Chevrolet S10 PU	03/29/2005	75640	3500	9.8	66.6	737.58	39.6	4.3L oil temp 63.2										
84582	1988 BMW 528e	02/23/2005	287806	3500	10.7	47.2	750.78	40.4	Oil temp = 46.1 F										
84581	1995 Chevrolet Corsica	02/23/2005	78767	3000	5.9	45.5	750.72	45.8	Oil Temp = 49.1 F										
84638	996 Chrysler Town & Count	03/11/2005	213656	4000	8.5	42.5	746.25	36.3	oil Temp44.6. 3.8L. Service engine light is illuminated.										
84585	1993 Ford Escort SW	02/24/2005	99988	2750	6.6	45.5	749.31	48.8	0										
84584	1995 Nissan PU	02/24/2005	86705	3500	12.0	42.5	749.13	53.9	Oil Temp = 46.0 F										
84734	1993 Plymouth Voyager	03/30/2005	166916	4000	7.3	63.0	733.73	42.9	3.0L Oil Temp 63.0. Adjusted BKG HC Vacuum pressure from 7 to 10.										
84587	1996 Mercury Villager	02/25/2005	166799	4000	7.9	43.9	748.25	45.7	0										
84588	1978 Buick Regal	02/25/2005	81379	4000	9.9	48.3	748.38	40.6	Oil Temp = 39.0 F										
84589	2001 Saturn	02/25/2005	56662	2750	6.1	52.6	748.40	36.0	0										
84688	1993 Ford Taurus	03/21/2005	92978	3500	9.5	52.1	744.13	38.9	OIL TEMP 54.4										
84592	1979 Ford LTD	02/26/2005	65850	4000	10.7	45.5	749.42	46.2	Oil Temp = 45.9,Absolutely NO brakes!!!!										
84593	1998 Honda Accord	02/26/2005	75067	3000	4.0	49.5	749.32	43.0	45.1										
84591	1993 Toyota 4Runner	02/26/2005																	

[illegible]

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84672	1983 Toyota Tercel	03/17/2005	87900	2250	6.7	58.3	743.46	24.1	OIL TEMP=51.9 EXHAUST LEAKS										
84669	1990 Dodge Spirit	03/17/2005	109931	3000	8.7	53.0	745.06	30.7	OIL TEMP=49.0 ANOTHER VEHICLE STARTED IN BUILDING										
84735	1988 Honda Accord	03/30/2005	209393	2750	6.4	63.1	734.47	47.4	2.0L Oil Temp Ambient										
84674	1979 Pontiac Firebird	03/17/2005	45370	4000	10.8	60.7	742.27	20.1	OIL TEMP=51.8										
84668	1991 Oldsmobile Delta 88	03/17/2005	139412	3500	7.0	48.9	745.21	37.3	OIL TEMP=48.9										
84673	1983 GMC Vandura	03/17/2005	52728	4500	16.2	60.5	742.25	21.4	OIL TEMP=52.0 WILL NOT EXCEED 50 MPH										
84676	1990 Ford Bronco	03/18/2005	25202	4500	13.3	54.8	740.59	25.6	OIL TEMP 54.8/ POOR BRAKING!!!!										
84679	1983 Toyota PU	03/18/2005	97635	3000	9.9	60.5	739.42	25.4	OIL TEMP=56.6 4 SPEED MAUNAL										
									No dyne test										
84677	1988 Buick Park Avenue	03/18/2005	146833	3500	6.3	57.9	740.38	24.1	OIL TEMP=56.4										
84680	1973 Chevrolet PU	03/18/2005	57484	4000	12.6	62.1	739.03	24.2	OIL TEMP=58.9 EXHAUST LEAKS NEW MUFFLER										
84687	1976 Chevrolet El Camino	03/19/2005	61809	4000	12.1	49.9	747.29	3.2	OIL TEMP 44.3 / RH BATTERY DEAD										
84686	1986 Ford F150 PU	03/19/2005	94737	3500	12.5	49.3	747.12	14.1	OIL TEMP 44.6 / EXHAUST LEAKS / POOR BRAKING										
84683	1990 Ford Ranger PU	03/19/2005	72976	3500	11.1	45.5	747.52	39.4	OIL TEMP 46.9 / MUFFLER ERMOVED / EXHAUST LEAK AT TRANSFER TUBE PORT ON TUNNEL "BRAIDED LINE"										
84685	1988 Ford F150 PU	03/19/2005	62947	4000	13.5	46.9	747.88	22.6	OIL TEMP 46.9										
84682	1990 Toyota Camry	03/19/2005	138235	3500	9.0	43.1	747.45	33.1	OIL TEMP 47.9										
84690	1989 Oldsmobile Cutlass Cier	03/21/2005	220970	3000	5.4	55.2	744.56	38.3	NOT ABLE TO OPEN HOOD /NO OIL	84695	Oldsmobile Cutlass	03/22/2005	220989	3000	5.4	42.4	742.73	67.6	OIL TEMP=52.0 DUPLICATE
84694	1983 Chevrolet C10 PU	03/21/2005	98799	3500	14.0	52.1	742.69	51.9	OIL TEMP 54.3 / COOLANT LIGHT CAME ON AT 1200 SECONDS										
84693	1988 Ford F150 PU	03/21/2005	97172	4000	14.6	54.7	743.13	43.3	OIL TEMP 54.3/EXHAUST LEAKS/ENGINE SKIPS INTERMITTENTLY, STARTED @1300 SECONDS										
84692	1988 Buick Century	03/21/2005	94555	3000	6.4	55.8	743.01	35.3	NOT ABLE TO OPEN HOOD/ EXHAUST SMELL										
84689	1992 GMC Jimmy	03/21/2005	90871	3500	9.5	54.2	744.37	38											

BKI Dyne Test Information, First Dyne Run										BKI Dyne Test Information, Second Dyne Run									
Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments	Dyne Run Number	BKI Vehicle Info	Dyne Test Date	BKI Odo	Test Inertia (Lbs)	Test HP (@ 50 MPH)	Ambient Temp (F)	Pbaro (mmHg)	RH (%)	Test Comments
84752	1978 Ford F100 PU	04/04/2005	58917	3500	12.2	74.1	740.46	33.5	0										
84751	1998 Ford Escort	04/04/2005	55309	2750	6.0	72.3	741.07	35.9	Oil Temp = 67 F										
84765	1985 Chevrolet Impala	04/06/2005	75914	4000	11.1	66.2	742.96	53.9	OIL TEMP=64.2 Exhaust manifold repaired before testing Poor braking Exhaust leaks Service engine soon light on										
84758	979 Chevrolet C10 Beauvill	04/05/2005	84025	4000	14.6	68.9	740.45	49.1	OIL TEMP= could not get										
84760	2004 Ford Escape	04/06/2005	10519	3500	10.4	61.8	742.50	68.6	OIL TEMP= 65.7 Realtime filter heater off										
84759	2005 Ford Focus	04/06/2005	6701	3000	11.7	60.2	742.14	73.3	OIL TEMP=65.4 Realtime filter heater off										
84753	2003 Dodge Caravan	04/05/2005	47649	4500	7.9	66.0	739.62	59.6	OIL TEMP=66.1										
84772	1992 Dodge Caravan	04/07/2005	143971	4000	7.0	56.7	747.26	64.1	Fluids (coolant and trans fluid) topped off.										
84768	1995 Ford F150 PU	04/07/2005	147342	4500	11.6	56.2	747.25	63.7	Oil Temp = 57.4										
84771	1994 Chevrolet Astrovan	04/07/2005	133318	4000	12.3	56.4	747.71	64.5	0										
84766	2000 Dodge Caravan	04/07/2005	93162	4000	10.0	56.8	746.02	64.8	0										
84775	1997 Chevrolet Suburban	04/08/2005	137630	5000	10.8	60.0	746.61	40.1	0										
84773	1998 Toyota 4Runner	04/08/2005	115768	4000	11.7	50.0	746.91	72.9	Oil Temp = 55.2										
84767	1998 Nissan Frontier PU	04/07/2005	107815	3500	11.0	56.5	746.97	64.2	Oil Temp = 58.3										
84770	1995 Ford F250 PU	04/07/2005	52586	4500	11.6	56.9	747.56	63.4	No Brakes, Oil Temp = 56.8										
84774	1995 Dodge Caravan	04/08/2005	136837	4000	7.6	55.6	747.01	60.3	0										
									No dyne test										
									No dyne test										
									No dyne test										
									No dyne test										
									No dyne test										
									No dyne test										
84081	1988 Ford Taurus	07/26/2004	13139	3500	4.0	76.4	748.47	40.6	Control Vehicle										
84114	1988 Ford Taurus	8/02/2004	13158	3500	4.0	93.5	743.15	45.0	Control Vehicle										
84143	1988 Ford Taurus	08/07/2004																	

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
7/13/2004		760	10.7	99.3 F	44	191	5	997	865	940	940		ALM035327	ALM066169	ALM060855	
7/13/2004	H03-SG04	667	11.8	96.6	45	193	5	976	904	938	931		ALM035327	ALM066169	ALM060855	
7/13/2004	C03-SG01	316	13.1	82.9	69	195	5	989	900	935	933	SAE-J1850 VPW	ALM035327	ALM066169	ALM060885	Span gas # correct?
7/13/2004		781	11.9	98.4	41	196	4	986	853	934	939		ALM035327	ALM066169	ALM060855	
7/14/2004		307	12	79.5	61		4	991	914	949	937		ALM035327	ALM066169	ALM060855	
7/14/2004		1773	11.8	84.4	50	195	3	988	860	950	879		ALM035327	ALM066169	ALM060855	
7/14/2004																
7/14/2004	H03-SG02	1845	12.8	82.2	51	193	4	980	910	936	923	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/15/2004	H03-SG02	1687	12.8	27.3	58	193	5	979	876	935	932	Will not communicate	ALM035327	ALM066169	ALM060855	
7/15/2004	H03-SG06	1804	13.4	27.3	60	193	5	985	859	940	935	SAE-J1850 PWM	ALM035327	ALM066169	ALM060855	
7/16/2004	H03-SG02	601	12.4	24.9	78	193	4	975	905	932	928	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/16/2004	H03-SG01	1661	12.7	31.4	60	195	4	974	902	936	932	Will not communicate	ALM035327	ALM066169		
7/17/2004	H03-SG02	1750	12.2	26	62	193	4	989	897	933	927	SAE-J1850 PWM	ALM035327	ALM066169	ALM060855	
7/17/2004	H03-SG02	315	12.8	25.4	64	193	5	980	910	935	933	Will not communicate	ALM035327	ALM066169	ALM060855	
7/19/2004	H03-SG02	510	11.1	33	48	193	5		875	930	917	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	
7/19/2004	H03-SG02	1804	12.7	25	62	192	5		874	935	931	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/19/2004	C03-SG01	1682	11.7	32	53	196	5		856	935	934		ALM035327	ALM066169		
7/19/2004	H03-SG02	849	11.5	31	53	192	6		874	930	923		ALM035327	ALM066169	ALM060855	
7/19/2004	H03-SG06	1861	13	32	52	194	4	980	856	938	93	ISO-9141-2	ALM035327	ALM066169	ALM060855	FID Pres - bottle rplcd
7/20/2004	H03-SG01	1418	12.2	36.5	45	195	6		861	939	935	Will not communicate	ALM035327	ALM066169	ALM060855	
7/19/2004	C03-SG01	724	13.2	28	75	197	4		899	927	931	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	OBDII protocol - try VPW
7/20/2004	C03-SG01	1765	11.9	34.6	43	196	5		846	929	930	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	OBDII protocol - try VPW
7/20/2004	H03-SG06	1600	13.5	27	75	103	1		894	941	932	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	OBDII protocol - try VPW
7/20/2004	H03-SG02	1943	12.7	36.5	47	193	0		867	929	925	ISO-9141-2				Vehicle would disconnect
7/23/2004	C03-SG01	1865	13.1	27.1	61	196	4		856	931	937	Will not communicate	ALM035327	ALM066169	ALM060855	
7/21/2004	H03-SG06	1057	13.4	31.6	55	194	5		854	941	930	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	OBDII protocol - try VPW
7/21/2004	H03-SG06	592	13.2	34.4	52	194	6		856	919	931	Will not communicate	ALM035327	ALM066169	ALM060855	
7/21/2004	H03-SG02	503	11.3	32.9	56	193	5		882	939	940	Will not communicate	ALM035327	ALM066169	ALM060855	
7/21/2004	H03-SG02	909	11.7	32	58	193	6		874	929	927	Will not communicate	ALM035327	ALM066169	ALM060855	
7/22/2004	C03-SG01	1691	12	29.8	65	196	5		855	936	936	Will not communicate				
7/24/2004																Untestable
7/22/2004	H03-SG01	857	12.1	32.3	53	195	7		864	943	940	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/22/2004	H03-SG01	1805	13.5	29.6	69	195	6		860	938	935	ISO-9141-2	ALM035327	ALM066169	ALM060855	OBDII protocol - change
7/23/2004	C03-SG01	494	12	26.9	67	196	4		863	941	942					
7/23/2004	H03-SG02	1608	11.5	27	69	193	5		883	942	941	SAE-J1850 VPW	ALM035327	ALM066169		
7/23/2004	H03-SG02	786	11.5	27.1	64	193	5		882	937	921	Will not communicate	ALM035327	ALM066169		
7/26/2004	H03-SG01	1749	12.1	24.4	52	195	5		851	932	935	Will not communicate	ALM035327	ALM066169	ALM060855	
7/24/2004		1800	11.4	18.4	75	192	5		890	962	922	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/24/2004	H03-SG02	216	11.6	18.9	75	192	4		888	949	946	Will not communicate	ALM035327	ALM066169	ALM060855	
7/24/2004	H03-SG01	401	12.6	29.7	75	195	3		872	949	873	Will not communicate	ALM035327	ALM066169	ALM060855	
7/26/2004	H03-SG02	974	11.6	27	40	192	5		885	946	947	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/26/2004	H03-SG02	603	11.2	28.1	40	192	5		886	939	891	SAE-J1850 PWM	ALM035327	ALM066169	ALM060855	
7/26/2004	H03-SG01	1302	11.7	26.1	45	195	4		877	950	905	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	
7/27/2004	H03-SG01	310	13.2	27.9	41	195	3		864	940	1017	ISO-9141-2	ALM035327	ALM035327	ALM060855	
7/27/2004	H03-SG02	1355	11	25.3	46	192	5		886	942	907	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/27/2004	H03-SG02	374	12.3	27.9	41	193	5		875	903	896					
7/27/2004	H03-SG01	525	12.9	27.9	41	195	4		866	942	997	SAE-J1850 PWM	ALM035327	ALM066169	ALM060855	
7/27/2004	H03-SG02	215	11.6	23.8	57	192	6		884	940	939	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/27/2004	H03-SG02	320	12.5	27.8	41	195	3		940	921	987	Will not communicate	ALM035327	ALM066169	ALM060855	

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SEMTECH System Information (ERG)										OBDII		Cylinder Numbers				
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
7/28/2004	H03-SG02	399	12.5	27.1	55	193	5		873	933	883	SAE-J1850 VPW	ALM042257	ALM066169	ALM060855	
7/28/2004	H03-SG02	1068	12.6	26.8	51	193	5		874	926	889	Will not communicate	ALM035327	ALM066169	ALM060855	
7/28/2004	H03-SG02	1848	13.2	24.4	56	195	5		880	937	928	SAE-J1850 VPW	ALM035327	ALM066169	ALM060855	
7/28/2004	H03-SG02	1390	12.6	25.9	51	193	5		875	930	872	ISO-9141-2	ALM035327	ALM066169	ALM060855	
7/28/2004	H03-SG02	524	12.1	27	54	193	5		887	921	931	ISO-9141-2	ALM042257	ALM066169	ALM060855	
7/29/2004	H03-SG01	1526	13.3	25.6	68	196	2		832	925	919	SAE-J1850 PWM	ALM042257	ALM066169	ALM060855	
7/29/2004	H03-SG02	1393	12.6	25.9	56	193	5	979	1026	929	904	SAE-J1850 PWM	ALM042257	ALM066169	ALM060855	
7/29/2004	H03-SG03	691	12.1	25.9	65	193	6	25.8	891	521	932	Will not communicate	ALM042257	ALM066169	ALM060855	
8/2/2004	H03-SG01	1919	12.5	34.6	55	196	3	975	901	939	934	Will not communicate	ALM042257	ALM066169		
7/29/2004	H03-SG02	1697	11.6	23.9	61	193	6	978	1021	868	870	ISO-9141-2	ALM042257	ALM066169	ALM060855	
7/30/2004	H03-SG02	1502	12.5			193	5		870	928	900	Will not communicate	ALM042257	ALM066169	ALM060855	
8/2/2004	H03-SG01	1671	12.5	35.4	54	196	3	974	856	929	901	Will not communicate	ALM042257	ALM066169	ALM060855	
8/2/2004	H03-SG02	355	12.3	32.9	57	193	5	983	916	923	929	Will not communicate	ALM042257	ALM066169		
7/30/2004	H03-SG02	845	12.9	28.1	53	196	8		858	933	1010	SAE-J1850 VPW	ALM042257	ALM066169	ALM060855	
7/30/2004	H03-SG02	1745	12.5	26.6	56	193	5		890	910	931	ISO-9141-2	ALM042257	ALM066169	ALM060855	
7/29/2004	H03-SG02	730	12.8	25.4	59	193	7		879	904	881	ISO-9141-2	ALM042257	ALM066169	ALM060855	
7/31/2004	H03-SG02	1758	12.1	28.1	64	193	5		876	934	932	Will not communicate	ALM042257	ALM066169	ALM060855	
7/31/2004	H03-SG02	472	11.9	28	63.7	192	5		878	934	932	Will not communicate	ALM042257	ALM066169	ALM060855	
7/31/2004	H03-SG02	1293	12.7	31.3	43	193	5		871	930	1014	SAE-J1850 VPW	ALM042257	ALM066169	ALM060855	
7/31/2004	H03-SG01	638	12	28	63	195	3		867	946	942	Will not communicate	ALM042257	ALM066169	ALM060855	
8/2/2004	H03-SG02	1693	11.7	34.8	54	193	5	975	870	926	925	SAE-J1850 PWM	ALM042257	ALM066169	ALM060855	
8/2/2004	SG02	9.8	12.9	28	74	193	5	976	926	870	922	SAE-J1850 VPW	ALM042257	ALM066169	ALM060855	
7/30/2004	H03-SG02	1206	11.2	27.6	55	192	5		876	928	890	ISO-9141-2	ALM042257	ALM066169	ALM060855	
7/30/2004	H03-SG01	1169	12.9	26.7	51	195	8		859	934	929	Will not communicate				
7/29/2004	H03-SG05	885	12.6	23.9	61	193	7		882	931	932	ISO-9141-2	ALM042257	ALM066169	ALM060855	
8/3/2004	H03-SG03	314	13.1	36.5	52	194	6		862	908	845		ALM042257	ALM066169		
8/3/2004		1065	12.5	32.4	55	196	3	974	901	945	950	Will not communicate				
8/3/2004	C03-SG01	1660	12.9	35.8	52	196	6		846	924	926	ISO-9141-2	ALM042257	ALM066169	ALM060855	
8/11/2004	H03-SG02	269	12.4	23.1	42	193	5	982	878	935	896	Will not communicate				
8/3/2004	H03-SG02	1398	12.2	29.9	68	193	5	975	869	931	927	ISO-9141-2				
8/4/2004	H03-SG01	1501	13.2	28	73	195	2		856	928	870	ISO-9141-2				
8/4/2004	H03-SG01	1219	13.1	28.8	76	195	3	972	857	903	872	SAE-J1850 PWM				
8/4/2004	H03-SG07	1008	13.3	28	73	195	3	973	859	939	947	Will not communicate				
8/4/2004	H03-SG01	1737	13.4	27.6	75	195	3	971	856	930	948	ISO-9141-2				
8/4/2004	H03-SG05	779	11.6	29.9	69	193	7	978	93	925	926	SAE-J1850 VPW				
8/5/2004	H03-SG01	802	12.2	25.4	49	195	3	983	913	951	962	SAE-J1850 PWM				
		1319	121			195	3	982	868	945	911	SAE-J1850 VPW				
8/5/2004	H03-SG01	1840	12.5	29.3	41	196	3	983	910	944	913	Will not communicate				
8/5/2004		1542	12.5			196	4	994	909	940	942	Will not communicate				
8/5/2004	C03-SG01	1071	12.3	28.5	42	196	4	993	860	936	932	SAE-J1850 VPW				
8/6/2004	H03-SG02	1787	12.4			190	5	994	913	960	936	SAE-J1850 PWM				
8/6/2004	H03-SG05	1714	12	24.3	45	193	7	991	925	940	937	SAE-J1850 VPW				
8/6/2004	H03-SG05	1286	12.9	26.8	37	193	6	989	923	927	930	Will not communicate				
8/6/2004	C03-SG01	626	12.6	25.3	43	196	4	996	909	939	943	Will not communicate				
8/7/2004	H03-SG01	640	13.5	26.6	44	196	3	979	906	941	934	Will not communicate				
8/7/2004	H03-SG02	1149	11.7	23.6	56	193	5	982	882	934	936	Will not communicate				
8/9/2004	H03-SG03	944	12.4	31.9	46	193	5	981	871	948	942	SAE-J1850 PWM				
8/7/2004	H03-SG03	353	13.2	24.6	53	194	5	981	907	953	918	Will not communicate				

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SEMTECH System Information (ERG)													OBDII		Cylinder Numbers	
Date	PEM Serial #	FID Pres (psiq)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
8/9/2004	H03-SG03	1350	13	24.6	64	178	5	982	909	919	945	ISO-9141-2				
8/9/2004	H03-SG02	1896	11.8	29	56	193	5	983	913	937	935	ISO-9141-2				
8/9/2004	H03-SG05	688	12.9	28.8	55	193	6	988	922	1016	701	SAE-J1850 PWM				
8/7/2004	H03-SG02	603	12	27.9	48	193	5	979	911	937	934	Will not communicate				
8/10/2004	C03-SG01	247	13.1	24.8	46	196	3	993	906	937	937	ISO-9141-2				
8/11/2004	H03-SG03	1887	131			194	5	981				Will not communicate				
8/10/2004	H03-SG03	701	12.1	22.1	51	194	5	983	913	936	893	ISO-9141-2				
8/10/2004	H03-SG01	1003	11.6	27.4	40	196	4	991	856	871	876	Will not communicate				
8/11/2004	H03-SG02	1203	12.8			193	5	984	850	868	888	ISO-9141-2				
8/11/2004	H03-SG03	490	11.7	20.9	59	193	5	983	911	935	893	Will not communicate				
8/11/2004		583	11.6	23.4	41	191	5	983	881	936	929	SAE-J1850 PWM				
8/11/2004	H03-SG02	866				193	4	984	870	889	886	ISO-9141-2				
8/12/2004	H03-SG05	1413	12.5	21.9	42	193	6					Will not communicate				
8/12/2004	H03-SG05	1725	11.7	18.8	65	193	5	988	926	942	935	SAE-J1850 VPW				
8/12/2004	H03-SG02	955	12.5	20.6	46	193	4	984	861	948	896	Will not communicate				
8/12/2004	H03-SG02	1242	11.7	19.6	64	187	5	984	876	893	905	SAE-J1850 PWM				
8/14/2004	H03-SG05	1862	12.7	26.4	37	193	7	992	927	936	917	Will not communicate				
8/13/2004	H03-SG02	347	11.8	23.9	47	193	5	986	883	940	885	Will not communicate				
8/12/2004	H03-SG02	692	12.7	19.4	64	193	5	986	917	931	936	SAE-J1850 PWM				
8/14/2004	H03-SG02	1432	12	24.8	40	193	6	988	883	938	916	ISO-9141-2				
8/14/2004	H03-SG05	630	11.4	23.9	49	191	6	992	886	963	943	Will not communicate				
8/14/2004	H03-SG02	1766	12.7	22.6	53	193	5	988	918	1023	942	ISO-9141-2				
8/16/2004	H03-SG05	792	12.2	22.8	65	193	4	985	880	937	889	SAE-J1850 VPW				
8/16/2004	H03-SG05	1603	12.5	22.8	5	193	6	990	928	939	928	ISO-9141-2				
8/18/2004	H03-SG02	1853	12.7	34.3	36	186	5	974	974	972	957	ISO-9141-2	ALM042257	ALM066169		
8/16/2004	H03-SG02	1027	12	22.4	52	193	5	985	915	255	553	ISO-9141-2				
8/17/2004	H03-SG02	646	12.2	25.4	65	192	5	980	875	938	946	Will not communicate				
8/17/2004	H03-SG05	1764	12.6	25.4	65	193	6	984	921	943	949	ISO-9141-2				
8/17/2004	H03-SG03	335	12.6	26.9	63	193	5	979	904	931	942	Will not communicate				
8/14/2004	H03-SG03	1019	12.3	31.6	45	193	6	974	864	920	927	ISO-9141-2	ALM042257	ALM066169		
8/18/2004	H03-SG02											SAE-J1850 VPW				Could not SEMTECH te
8/18/2004	H03-SG03	717	12.7	35	32	194	6	972	898	923	871					
8/18/2004	H03-SG03	323	12.1	28.9	53	193	5	975	904	930	927	SAE-J1850 VPW				
8/19/2004	H03-SG03	1797	12.6	22.6	44	193	4	981	908	930	885	Will not communicate				
8/19/2004	H03-SG03	417	12.3	20.9	46	193	5	982	908	932	892	Will not communicate				
8/20/2004	H03-SG04	1173	12.7	22.1	57	193	5	980	910	936	929	Will not communicate				PEMS-only (all-wheel dr
8/20/2004	H03-SG03	1371	11.7	19.4	74	193	5	-32	877	908	847	Will not communicate				
8/20/2004	H03-SG03	1766	12.5	18.4	78	193	5	979	906	946	934	Will not communicate				
8/21/2004	H03-SG03	575	12.8	18.6	88	193	5	983	910	940	926	Will not communicate				
8/21/2004	H03-SG02	453	12.7	23.9	65	193	5	982	910	931	906	Will not communicate				
8/21/2004	H03-SG01	948	12.8	22.9	66	196	4	980	911	944	938	SAE-J1850 PWM				
8/21/2004																
8/21/2004	H03-SG01	675	13.1			195	3	979	866	945	916	SAE-J1850 PWM				
8/21/2004	H03-SG02	841	12.3	19.1	86	193	5	984	914	940	949	Will not communicate				
8/23/2004	H03-SG01	1740	13.2	24.5		195	4	973	904	910	918	ISO-9141-2				RH(%) - Out of range H
8/23/2004	H03-SG01	1301	13	24.9	89	195	4	972	860	935	894	Will not communicate				
8/23/2004	H03-SG02	1782	12.1	24.9	89	193	5	975	904	924	904	Will not communicate				
8/23/2004		1356	12.1	25.5	89	180	5	974	903	928	873	Will not communicate				
8/23/2004	C03-SG01	496	13.2	24.1	87	197	3	983	898	922	896	Will not communicate				
8/24/2004	H03-SG06	1718	12.4	23.9	70	193	4	977	903	909	925	Will not communicate				
8/25/2004	H03-SG02	1690	12.1	29	73	190	7	971	839	856	835	Will not communicate				
8/25/2004																
8/25/2004		834	12.5	30.9	68	194	5	978	864	929	925	Will not communicate				

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)													OBDII	Cylinder Numbers		
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
8/26/2004	H03-SG02	1572	12.8	27.8	77	193	5	972	866	936	900	SAE-J1850 PWM				
8/25/2004		1595	11.8	30.3	72	193	5	972	900	921	915	Will not communicate				
8/27/2004	H03-SG02	289	11.9	27.6	77	193	5	975	869	940	921	Will not communicate				
8/26/2004	HC3-SG02	1799	12.2	25.9	87	193	5	972	901	936	926	Will not communicate				
8/26/2004	H03-SG06	1442	12.6	34.5	54	194	6	976	889	895	901	Will not communicate				
8/25/2004		1196	11.7	26.4	83	193	5	977	904	930	942	Will not communicate				
8/26/2004	H03-SG02	411	12.3	34.6	55	193	5	970	862	906	887	ISO-9141-2				
8/26/2004	C03-SG01	475	12.3	27.5	77	193	4	978	894	910	926	SAE-J1850 VPW				
8/26/2004	H03-SG02	1219	12.2	30.8	64	193	5	972	864	923	879	Will not communicate				
8/26/2004	H03-SG02	738	12.2	34.1	56	193	5	970	863	921	878	SAE-J1850 VPW				
8/27/2004	H0C-SG06	1829	12.7	30.6	62	194	5	982	854	907	883	Will not communicate				
8/27/2004	H03-SG06	498	12.3	27.6	77	193	4		859	937	932	Will not communicate				
8/27/2004	H03-SG02	1389	12.4	31.9	59	193	5	975	868	916	895	SAE-J1850 VPW				
8/28/2004																No PEM
8/28/2004	H03-SG06	865	12.3	23.9	73	194	5	986	901	929	934					
8/28/2004	H03-SG04	905	12.8	24.9	65	193	4	979	857	919	920	Will not communicate				
8/28/2004	H03-SG04	1472	12.7	22	84	188	5	978	902	941	925	Will not communicate				
8/28/2004	H03-SG01	430	13.4	27.4	57	193	5	979	858	925	923	Will not communicate				
8/28/2004	H03-SG04	1168	12.9	73	23	193	5	979	859	935	919	Will not communicate				
8/30/2004	H03-SG04	1265	12.4	20.6	74	193	4	982	868	947	931	Will not communicate				
8/30/2004	H03-SG04	364	12.7	27.3	51	193	5	982	861	926	927	SAE-J1850 PWM				
8/30/2004	H03-SG06	1658	12.4	21.1	70	193	4	989	902	939	937					
8/30/2004	H03-SG06	1216	12.7	24.1	59	194	5	990	903	943	845	Will not communicate				
8/30/2004	H03-SG04	570	12.6	25.6	57	193	5	982	863	926	926	ISO-9141-2				
8/30/2004	H03-SG04	790	12.8	23.6	61	193	5	983	863	928	923	ISO-9141-2				
8/31/2004	H03-SG06	772	12.7	29.6	50	194	6	993	864	941	932	Will not communicate				
8/31/2004	H03-SG04	1773	12.9	23.9	67	193	5	985	907	935	937	Will not communicate				
8/31/2004	H03-SG06	590	12.6	31	44	193	6	992	954	968	987	Will not communicate				
8/31/2004	H03-SG06	1776	12.4	22.8	80	194	4	992	906	949	940					
8/31/2004	H03-SG04	1334	13	27.4	60	193	6	986	862	939	927	Will not communicate				
9/1/2004	H03-SG05	1145	13	24.1	64	193	7	991	916	937	930	Will not communicate				
9/1/2004	H03-SG04	1804	13.5	27	54	193	5	986	906	933	931	SAE-J1850 PWM				
9/1/2004	H03-SG06	1779	12.7	26.5	57	194	5	993	865	947	941	SAE-J1850 PWM				
9/1/2004	H03-SG02	1849	12.8	26.8	56	193	5	987	920	947	943	Will not communicate				
9/8/2004																Info not collected by Mik
9/8/2004	H03-SG02	1828	12.1	26	36	193	5	986	915	943	939	Will not communicate				
9/8/2004	H03-SG06	1010	12.9	23.3	46	194	4	992	904	947	936	Will not communicate				
9/9/2004	H03-SG05	680	12.5	23.4	49	194	6	989	914	925	906	ISO-9141-2				
9/9/2004	H03-SG05	242	12.8	22.4	52	194	4	991	863	886	899	Will not communicate				
9/9/2004	H03-SG06	509	12.9	18.9	73	194	4	990	903	905	934	Will not communicate				
9/9/2004	H03-SG05	502	12.5	26.9	43	194	6	987	915	910	883	Will not communicate				
9/9/2004	H03-SG06	1805	13	28	41	194	5	988	900	944	911	Will not communicate				
9/10/2004	H03-SG06	737	13	28.9	37	194	6	990	860	892	936	Will not communicate				
9/10/2004	H03-SG06	1494	13.6	19.9	69	19		990	903	891	916	Will not communicate				

Page 5 (Installation for Preconditioning Drive)																
SEMTECH System Information (ERG)													OBDII		Cylinder Numbers	
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
9/10/2004	H03-SG06	549	12.1	30.1	37	193	6	969	866	923	918	ISO-9141-2				
9/11/2004	H03-SG03	1079	12.3	27.3	44	193	5	984	881	944	941	Will not communicate				
9/10/2004	H03-SG05	1447	13	25.1	51	194	6	989	915	942	929	Will not communicate				
9/10/2004	H03-SG05	1056	12.5	29.6	36	194	7	988	867	914	844	Will not communicate				
9/13/2004	H03-SG02	1705	12	29.8	49	193	5	967	867	930	927	SAE-J1850 VPW				
9/14/2004	H03-SG03	1807	12.5	26.9	66	194	6	975	899	911	910	ISO-9141-2				
9/13/2004	H03-SG02	315	11.8	23.9	58	193	5	978	907	934	931	Will not communicate				
9/14/2004	H03-SG05	801	12.6	31.9	44	194	7	976	900	895	871	ISO-9141-2				
9/13/2004	H03-SG05	1648	12.4	25.9	55	194	6	982	909	915	907	Will not communicate				
9/14/2004	H03-SG05	1063	12.7	31.6	48	194	6	977	902	928	902	Will not communicate				
9/14/2004	H03-SG05	1467	12.3	25.4	70			979	856	911	904					
9/14/2004	H03-SG04	281	13	31	52	193	5	972	893	952	917	ISO-9141-2				
9/15/2004	H03-SG05	917	12	27.9	57	193	7	978	909	862	814	Will not communicate				
9/14/2004	H03-SG04	1534	12.9	23.9	High	196	2	983	846	887	871	Will not communicate				
9/14/2004	H03-SG04	1785	12.1	24.9	74	193	4	971	893	929	917	Will not communicate				
9/15/2004	H03-SG05	353	12.7	24.9	75	194	6	976	901	862	895	ISO-9141-2				
9/14/2004	H03-SG03	1511	13	29.9	60	194	6	974	898	260	524	ISO-9141-2				
9/15/2004	H03-SG05	429		25.9	76	194	6	975	904	848	826	ISO-9141-2				
9/15/2004	H03-SG05	797	12.2	24.5	88	193	6	978	907	878	848	ISO-9141-2				
9/15/2004	H03-SG02	1052	12	23.6	High	193	6	975	867	933	894	ISO-9141-2				
9/16/2004	H03-SG05	1740	13	27.6	33	194	7	984	900	924	902					
9/15/2004	H03-SG03	1730	13.4	20	66	194	5	981	906	927	911	Will not communicate				
9/16/2004	H03-SG03	796	12.3	27.9	32	193	6	978	866	921	920	SAE-J1850 VPW				
9/16/2004	H03-SG05	1287	13	27.9	33	194	7	983	862	928	895	SAE-J1850 PWM				
9/16/2004	H03-SG03	1426	12.6	24.4	49	194	5	981	905	938	876	Will not communicate				
9/16/2004	H03-SG05	1575	13	25.6	42	194	6	966	912	865	892	Will not communicate				
9/20/2004	H03-SG02	593	11.9	27.9	40	113	5	982	908	934	932	SAE-J1850 PWM				Start THC ~ 5,000
9/17/2004																
9/17/2004	H03-SG05	644	12.5	23.1	50	193	6	985	865	867	828	Will not communicate				
9/17/2004	H03-SG02	625	11.9	24.5	47	193	6	961	910	965	934	ISO-9141-2				
9/17/2004	H03-SG03	1314	12.8	22.4	49	193	6	980	936	935	873	Will not communicate				
9/18/2004	H03-SG05	1600	12.7	20	86	193	6	986	913	938	908	ISO-9141-2				
9/18/2004	H03-SG03	965	13	22.8	73	194	6	981	903	923	911	Will not communicate				
9/18/2004	H03-SG02	1375	12.2	31.1	47	193	5	981	872	949	928	ISO-9141-2				
9/17/2004	H03-SG03	1715	12.4	17.1	77	193	5	980	905	949	868	Will not communicate				
9/18/2004	H03-SG02	525	12.7	20.1	31	193	6	983	912	940	934	ISO-9141-2				
9/29/2004	H03-SG02	1174	11.8	15.3	61	193	5	987	918	942	940	SAE-J1850 PWM				
9/18/2004	H03-SG05	1259	12.9	26.1	65	193	7	986	865	817	761	Will not communicate				
9/20/2004	H03-SG02	1010	11.8	22	46	192	5	985	878	935	929					Beginning THC ~ 3000.
9/20/2004	H03-SG05	959	12.7	231	43	194	6	987	910	896	872	ISO-9141-2				
9/20/2004	H03-SG05	429	12.8	37.1	24.5	194	6	985	883	857	865	SAE-J1850 PWM				
9/20/2004	H03-SG05	722	12.8	31	25	194	7	987	866	842	800	ISO-9141-2				
9/20/2004	H03-SG02	787	12	25	40	193	5	984	913	930	920	ISO-9141-2				Start THC ~ 2,500
9/21/2004	H03-SG05	1406	12.5	24.5	53	194	7	987	913	846	884	Will not communicate				Start THC ~ 11,500
9/21/2004	H03-SG05	873	12.9	34.5	38.4	194	7	986	911	863	898	Will not communicate				

Page 5 (Installation for Precoditioning Drive)																	
SEMTECH System Information (ERG)													OBDII		Cylinder Numbers		
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments	
9/20/2004	H03-SG02	1590	11.9	28.9	34	193	5	980	872	932	909	Will not communicate					
9/21/2004	H03-SG02	1050	11.5	20.8	58	193	5	984	912	937	934	SAE-J1850 VPW					
9/21/2004	H03-SG02	259	11.9	26.1	55.1	193	5	984	876	945	927	SAE-J1850 VPW					
9/21/2004	H03-SG03	697	12.2	27.9	50	194	6	981	909	925	912	SAE-J1850 VPW				Start THC ~ 3,300	
9/22/2004	H03-SG05	1049	12.6			194	7	989	868	794	783	ISO-9141-2				Start THC ~ 1,500	
9/22/2004		1559	12.8	29.4	41	193	5	982	908	934	931	Will not communicate					
9/22/2004	H03-SG05	1644	12.5	22.4	50	193	6	989	915	907	890	SAE-J1850 PWM					
9/23/2004	H03-SG05	411	12.6	21.5	63	194	7	984	912	922	924	ISO-9141-2					
9/23/2004	H03-SG02	1314	11.6			193	5	982	909	931	925	Will not communicate					
9/23/2004		1640	12.7	24.1	59	194	7	985	867	936	883						
9/23/2004	H03-SG02	939	11.8	21.4	75	193	5	984	878	952	927	Will not communicate					
9/24/2004	H03-SG05	1235	12.5	27.9	32	193	7	989	868	902	913	SAE-J1850 VPW					
9/24/2004	H03-SG05	1711	12.4	22.6	54	193	7	990	918	906	925	SAE-J1850 PWM					
9/24/2004	H03-SG02	1085	11.9	27.4	32	193	5	985	877	934	911	Will not communicate					
9/24/2004	H03-SG02	311	11.8	17.4	71	193	5	987	916	938	944	Will not communicate					
9/24/2004	H05-SG02	1657		25.6	54.5	193	5	987	879	940	915	Will not communicate					
9/11/2004	H03-SG05	709	13	29.6	40	194	7	986	863	936	911	Will not communicate					
9/11/2004	H03-SG05	956	13	28.1	41	194	7	987	866	917	902	SAE-J1850 PWM					
9/11/2004	H03-SG02	829	12.9	29.1	40	193	5	983	909	937	931	ISO-9141-2					
9/11/2004	H03-SG05	1655	12.8	19.9	78	193	6	988	916	941	920	Will not communicate					
9/11/2004	H03-SG06			19.1	76	193	6	990	870	929	937	Will not communicate					
9/25/2004	H03-SG05	411	12.6	29.9	32	194	7	991	920	912	931	Will not communicate					
9/25/2004	H03-SG02	739	11.9	18.9	80	193	5	988	917	942	939	SAE-J1850 VPW					
9/25/2004	H03-SG02	471	11.9	23.5	51	193	5	988	880	940	926	Will not communicate					
9/25/2004	H03-SG05	650	12.3	21.6	54	193	6	992	876	957	932	SAE-J1850 VPW					
9/27/2004	H03-SG05	1605	12.5	29.4	34	194	7	986	856	900	831	SAE-J1850 PWM					
9/27/2004	H03-SG02	1691	11.7			193	5	985	913	934	928	SAE-J1850 VPW					
9/27/2004	H03-SG02	1418	11.6	29.4	34	192	6	984	875	931	929	ISO-9141-2					
9/27/2004		952	12.5	19 C	73	193	5	968	917	938	927	Will not communicate					
9/27/2004	H03-SG05	338	12.5	26.2	51	194	8	987	914	899	808	Will not communicate					
9/28/2004	H03-SG02	531	11.6	20.4	58	193	5	987	867	895	896	Will not communicate					
9/28/2004	H03-SG05	1041	12.1	20.1	60	193	6	991	872	875	844	ISO-9141-2					
9/28/2004	H03-SG05	421	12.6	27	40	194	7	991	871	919	851	Will not communicate					
9/28/2004	H03-SG05	1318	12.9	22.4	63	193	6	990	918	953	916	SAE-J1850 VPW					
9/28/2004	H03-SG02	1715	11.9	24.9	40	193	6	988	860	884	882	Will not communicate					
9/27/2004	H03-SG02	955	12.2	29.8	82	193	6	982	873	932	915	Will not communicate					
9/29/2004	H03-SG05	1657	13.1	21.6	30	194	6	988	915	940	913	ISO-9141-2					

Page 5 (Installation for Preconditioning Drive)																
SEMTECH System Information (ERG)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
9/29/2004	H03-SG02	546		23.9	28	193	5	983	864	885	891					
9/29/2004	H03-SG02	306	12	24.1	27	193	5	982	874	930	907	Will not communicate				
9/29/2004	H03-SG02	732	12	20.5	39	193	6	986	880	938	893	Will not communicate				
9/29/2004	H03-SG03	1707	11.9	19.4	45	194	5	985	879	896	903	SAE-J1850 VPW				
9/30/2004	H03-SG05	655	12.5	21.1	44	194	7	985	912	930	836	SAE-J1850 VPW				
9/30/2004	H03-SG05	307	12.8	23.9	44.4	193	7	983	909	931	833	SAE-J1850 VPW				
9/30/2004		949	12.9	19.2	54.2	193	5	985	869	936	925	SAE-J1850 VPW				
9/30/2004	H03-SG02	1322	12.1	25.9	39.1	193	5	978	904	931	911	Will not communicate				
9/29/2004	H03-SG03	1530	12.8	24.1	29	194	5	981	865	929	938	ISO-9141-2				
9/30/2004	H03-SG02	1689	11.6	20.1	51	193	5	982	862	879	887	Will not communicate				Start THC ~ 8,700 ppm
9/30/2004	H03-SG02	1529	12			193	5	980	863	882	892	ISO-9141-2				
1/11/2005	H03-SG06	1284	13.1	11.6	41	194	4	984	901	936	941	Vehicle will not commu	ALM050011	ALM041307		
1/11/2005	H03-SG05	1447	13.2	11.9	47	193	5	980	912	927	906	Vehicle will not commu	ALM050011	ALM041307		
1/11/2005	H03-SG06	1685	12.9	13.5	44	194	4	981	897	927	1009	SAE-J1850 VPW	ALM050011	ALM041307		
1/11/2005	H03-SG05	1701	13.8	11.1	45	193	6	984	913	930	923	ISO-9141-2	ALM050011	ALM041307		
1/12/2005	H03-SG05	996	13.5	5.9	61	193	5	970	903	909	871	ISO-9141-2	ALM050011	ALM041307		
1/12/2005	H03-SG03	1030	12.6	6.9	53	193	4	964	860	921	852	ISO-9141-2	ALM050011	ALM041307		
1/12/2005	H03-SG03	346	12.5	7.6	68	153	4	102	892	880	838	ISO-9141-2	ALM050011	ALM041307		
1/12/2005	H03-SG05	773	12.6	8.3	68	193	5	968	904	910	847	Vehicle will not commu	ALM050011	ALM041307		
1/13/2005	H03-SG06	643	12.5	2.1	43	193	3	908	1013	939	909		ALM050011	ALM041307		
1/13/2005	H03-SG05	1349	13.5	1.9	45	193	4	984	921	952	877	ISO-9141-2	ALM050011	ALM041307		
1/13/2005	H03-SG03	1631	12.6	4.8	40	193	3	983	919	925	908	Vehicle will not commu	ALM050011	ALM041307		
1/13/2005	C03-SG01	769		4.6	31	195	3	1002	943	951	921	ISO-9141-2				
1/14/2005	H03-SG03	1474	12.9	3.6	26	194	3	1003	905	993	828	SAE-J1850 VPW	ALM050011	ALM041307		
1/15/2005	H03-SG05	853	12.4	5	24	193	5	1008	937	919	900		ALM050011	ALM041307		
1/14/2005	H03-SG05	1310	12	7.9	25	193	2	1030	893	950	934	SAE-J1850 VPW	ALM050011	ALM041307		
1/14/2005	H03-SG03	968	11.9	6.8	25	193	3	10000	939	938	919	ISO-9141-2	ALM050011	ALM041307		
1/14/2005	H03-SG06	1667	12.8	-0.1	24	193	2	1008	932	957	934	SAE-J1850 VPW	ALM050011	ALM041307		
1/15/2005	H03-SG06	1700	12.5	15.6	20	1700	4	1042	884	961	945	SAE-J1850 VPW	ALM050011	ALM041307		
1/15/2005	H03-SG03	990	13.4	12.9	22	193	2	1009	938	876	930	SAE-J1850 VPW	ALM050011	ALM041307		
1/15/2005	H03-SG06	1212	12.7	12.1	22	193	4	1036	883	965	954	SAE-J1850 VPW	ALM050011	ALM041307		
1/15/2005	H03-SG05	555	12.8	14.6	20	193	6	1010	940	957	958	ISO-9141-2	ALM050011	ALM041307		
1/15/2005	H03-SG03	1705	13.4	16	20	193	4	1006	934	902	881	ISO-9141-2	ALM050011	ALM041307		
1/17/2005	H03-SG05	1543	12	14.6	42	193	5	1038	935	945	931	ISO-9141-2	ALM050011	ALM041307		
1/17/2005	H03-SG05	1855	12.7	18.6	20	193	6	1041	936	949	927	Vehicle will not commu	ALM050011	ALM041307		
1/16/2005	H03-SG03	1795	13.4	18.9	20	194	4	1004	932	904	885	ISO-9141-2	ALM050011	ALM041307		
1/17/2005	C03-SG01	1667	13	13.4	22	191	5	1013	969	953	946	Vehicle will not commu	ALM050011	ALM041307		
1/16/2005	H03-SG03	1473	12.2	22.6	20	193	4	1002	936	916	907	SAE-J1850 VPW	ALM050011	ALM041307		
1/18/2005	H03-SG06	888	12.6	14.3	23	193	5	1029	885	952	929	SAE-J1850 VPW	ALM050011	ALM041307		
1/18/2005	H03-SG06	575	13	22.1	22	194	5	993	910	942	935	Vehicle will not commu	ALM050011	ALM041307		
1/18/2005	H03-SG03	1669	13	20.4	21	193	5	1008	931	914	920	SAE-J1850 VPW	ALM050011	ALM041307		
1/18/2005	H03-SG03	1482	12.5	20.1	24	193	4	1025	920	890	936	ISO-9141-2	ALM050011	ALM041307		
1/18/2005	C03-SG01	1736	12.4	18.1	24	195	5	1017	982	945	949	Vehicle will not commu	ALM050011	ALM041307		
1/18/2005	H03-SG03	1135	12.4	20	27	193	4	1025	915	885	889	ISO-9141-2	ALM050011	ALM041307		
1/19/2005	C03-SG01	331	12.4	11.9	41	195	5	1012	976	937	909	Vehicle will not commu	ALM050011	ALM041307		
1/19/2005	C03-SG01	1529	12.4	13.5	45	195	6	1009	920	917	882	Vehicle will not communicate using any of the above communication protocols.				
1/19/2005	H03-SG06	1731	13.6	12.1	40	193	4	935	979	987	936	Vehicle will not commu	ALM050011	ALM041307		
1/19/2005	C03-SG01	647	12.2	17.4	25	195	5	1019	886	942	972	SAE-J1850 VPW	ALM050011	ALM041307		

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
1/18/2005	H03-SG03	879	12.5	14.6	35	193	4	989	918	925	911	Vehicle will not commu	ALM050011	ALM041307		
1/20/2005	H03-SG06	1719	13	9	56	193	4	1005	850	878	873	SAE-J1850 VPW	ALM050011	ALM041307		
1/20/2005	H03-SG02	1025	12.7	19.8	34	193	5	976	908	930	915	SAE-J1850 VPW	ALM050011	ALM041307		
1/20/2005	H03-SG06	1388	12.3	13.9	51	193	4	963	908	921	847	SAE-J1850 PWM	ALM050011	ALM041307		
1/20/2005	H03-SG02	880	12.3	12.3	53	192	6	1012	880	739	926		ALM050011	ALM041307		
1/19/2005	H03-SG06	861	12.9	21.1	32	193	4	1006	860	924	905	Vehicle will not commu	ALM050011	ALM041307		
1/21/2005	H03-SG06	1694	13.6	45.4	25	194	4	1013	902	935	923	ISO-9141-2	ALM06117	ALM041307		
1/21/2005	H03-SG06	1308	12.6	13.5	31	193	5	1008	846	874	878	ISO-9141-2	ALM06117	ALM041307		
1/21/2005	C03-SG07	1621	12.6	13.5	39	195	6	997	915	930	933	SAE-J1850 VPW	ALM06117	ALM041307		
1/21/2005	H03-SG03	1645	12.6	12.4	40	193	5	1018	873	932	923	Vehicle will not commu	ALM06117	ALM041307		
1/21/2005	H03-SG06	867	12.8	22.9	25	194	4	1008	896	918	920	Vehicle will not commu	ALM06117	ALM041307		
1/22/2005	H03-SG02	1581	12	16.4	23	191	6	993	875	891	896	Vehicle will not commu	ALM06117	ALM041307		
1/22/2005	C03-SG01	1294	12.5	15.6	23	195	3	1000	966	943	940		ALM06117	ALM041307		
1/22/2005	C03-SG01	1031	12.4	6.5	22	195	5	1012	988	944	917	Vehicle will not commu	ALM06117	ALM041307		
1/25/2005	H03-SG02	1628	12.8	12.6	40	193	3	991	938	949	969		ALM06117	ALM041307		
1/25/2005	H03-SG02	769	12.8	13.4	41	193	5	1006	875	936	892	Vehicle will not commu	ALM06117	ALM041307		
1/26/2005		1736	12.5	20.9	28	195	5	1012	903	933	934	Vehicle will not commu	ALM06117	ALM041307		
1/25/2005	H03-SG02	1127	12.8	15.6	34	193	5	1008	909	935	923	Vehicle will not commu	ALM06117	ALM041307		
1/25/2005	H03-SG06	1213	12.9	14.8	41	193	4	1001	857	886	917	Vehicle will not commu	ALM06117	ALM041307		
1/26/2005	H03-SG02	1797	12.5	20.9	28	192	5	1021	887	939	928	Vehicle will not commu	ALM06117	ALM041307		
1/26/2005	H03-SG02	1404	12.6	23.1	22	192	5	1023	920	940	911	Vehicle will not commu	ALM06117	ALM041307		
1/26/2005	H03-SG06	559	12.5	16.9	36	191	5	1014	867	881	904	Vehicle will not commu	ALM06117	ALM041307		
1/27/2005	L04-SE13	1227	13.5	17.3	30	195	3	995	925	941	895	Vehicle will not commu	ALM06117	ALM041307		
1/27/2005	H03-SG03	1697	12.2	17.9	24	192	6	1232	907	961	963	SAE-J1850 VPW	ALM06117	ALM041307		
1/28/2005	H03-SG02	1744	12.8	17.3	29	191	6	990	888	943	934	Vehicle will not commu	ALM06117	ALM041307		
1/27/2005		1117	12.5	16.9	30	192	5	1029	894	952	943	Vehicle will not commu	ALM06117	ALM041307		
1/27/2005	H03-SG02	777	12.5	18.9	29	193	5	993	933	943	935	Vehicle will not commu	ALM06117	ALM041307		
1/28/2005	H03-SG06	975	12	19.1	22	194	5	1022	906	935	926	Vehicle will not commu	ALM06117	ALM041307		
1/28/2005	H03-SG02	1129	12.8	19.8	27	193	5	988	922	944	921	Vehicle will not commu	ALM06117	ALM041307		
1/28/2005	H03-SG02	456	13	21.8	21			986	858	875	882	Vehicle will not commu	ALM06117	ALM041307		
1/29/2005	H03-SG03	1752	12.6	19.1	28	193	5	1023	912	930	931	ISO-9141-2	ALM06117	ALM041307		
1/29/2005	H03-SG02	583	12.6	20.5	30	193	5	1021	917	933	914	ISO-9141-2	ALM06117	ALM041307		
1/29/2005	H03-SG06	1740	12.5	20.8	30	193	4	992	864	945	926		ALM06117	ALM041307		
1/29/2005	H03-SG06	1392	13	21	28	194	4	1022	900	942	922	ISO-9141-2	ALM06117	ALM041307		
1/31/2005	H03-SG02	1737	13.8	50				999	891	940	936		ALM061111	ALM041307		
1/31/2005	K03-SG01	1706	13	19.6	42	195	4	987	920	941	943	Vehicle will not commu	ALM06117	ALM041307		
1/31/2005	H03-SG03	1414	13.1	13.4	51	193	4	990	920	942	932	Vehicle will not commu	ALM06111	ALM041307		
2/2/2005	H03-SG02	973	12.5	15	37	193	5	1025	924	935	915	SAE-J1850 VPW	ALM06117	ALM041307		
2/1/2005	H03-SG02	1712	13	18.5	37	193	5	996	903	930	886	Vehicle will not commu	ALM06117	ALM041307		
2/1/2005	H03-SG02	338	12.5	9.9	42	193		991	841	854	860	Vehicle will not commu	ALM06117	ALM041307		
2/1/2005	H03-SG03	768	12.1	16.4	25			992	884	956	940	Vehicle will not commu	ALM06117	ALM041307		
2/2/2005	C03-SG02	1468	12.3	15.9	37	193	4	1004	873	980	940	SAE-J1850 PWM	ALM06117	ALM041307		
2/2/2005	C03-SG02	971	12.6	8.4	33	192	3	1018	885	940	856	SAE-J1850 VPW	ALM06117	ALM041307		
2/2/2005	H03-SG02	1260	12.5	8.6	29	191	6	988	1022	921	887	SAE-J1850 PWM	ALM06117	ALM041307		
2/2/2005	H03-SG01	521	12.6	14.1	30	195	4	1020	880	953	967	Vehicle will not commu	ALM06117	ALM041307		
2/2/2005	H03-SG02	566	12.1	10.5	43			991	891	920	894	Vehicle will not commu	ALM06117	ALM041307		
2/3/2005	H03-SG01	564	12.6	22.9	23	195	4	1028	921	954	951	ISO-9141-2	ALM06117	ALM041307		
2/3/2005	H03-SG06	920	12.3	22.8	23	191	6	1000	1026	937	931	Vehicle will not commu	ALM06117	ALM041307		
2/3/2005	H03-SG03	290	12.6	193	5	16.6	35	990	881	871	925	ISO-9141-2	ALM06117	ALM041307		
2/3/2005	H03-SG02	830	12.5	15.6	39	193	6	992	889	944	938	ISO-9141-2	ALM06117	ALM041307		
2/4/2005	H03-SG02	287	12.5	22.1	31	193	5	990	886	938	929	SAE-J1850 PWM	ALM06117	ALM041307		OBDII - Could not comm
2/4/2005	C03-SG02	1527	12.6			193	4	1025	922	928	945	SAE-J1850 VPW	ALM06117	ALM041307		

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
2/4/2005	H03-SG02	1746	12.5	22.9	23	193	6	987	885	920	869	Vehicle will not commu	ALM006117	ALM041307		
2/4/2005	C03-SG01	412	12.2	25.9	23	195	5	999	1012	941	937	Vehicle will not commu	ALM006117	ALM041307		
2/5/2005	C03-SG02	577	12.3	190	35	191	5	998	866	941	934	Vehicle will not commu	ALM006117	ALM041307		
2/5/2005	H03-SG02	1250	12.4	10.6	45	193	6	985	886	916	911	Vehicle will not commu	ALM006117	ALM041307		
2/5/2005	H03-SG02	924	12.7	18.6	32	193	5	985	785	799	804	SAE-J1850 PWM	ALM006117	ALM041307		
2/5/2005	H03-SG06	1780	12.3	16.8	32	193	5	988	888	938	929	Vehicle will not commu	ALM006117	ALM041307		
2/6/2005	H03-SG06	1280	12.5	16.3	53	193	4	987	857	934	921	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	H03-SG03	1688	12.4	19.6	28	193	4	985	876	945	937	ISO-9141-2	ALM006117	ALM041307		
2/7/2005	C03-SG01	1771	12.2	18.5	31	195	4	1017	921	940	939	ISO-9141-2	ALM006117	ALM041307		
2/7/2005	C03-SG01	1206	12.4	16.1	30	193	5	995	876	929	872		ALM006117	ALM041307		OBD II - ?
2/7/2005	C03-SG01	1557	12.5	18.1	30	195	4	1004	917	932	881	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	C03-SG01	852	12.6	17	30	195	4	1019	875	957	878	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	H03-SG03	1224	12.8	13.9	31	194	4	1022	912	976	979	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	H03-SG06	793	12.6	18.4	31	193	5	990	866	885	930	ISO-9141-2	ALM006117	ALM041307		
2/10/2005	C03-SG01	826	12.2	12.8	31	195	4	1003	876	943	891	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	H03-SG02	285	12.5	18	30	193	5	986	858	872	887	Vehicle will not commu	ALM006117	ALM041307		
2/8/2005	H03-SG02	447	12.2	18.1	30	145	4	1004	990	933	872	SAE-J1850 PWM	ALM006117	ALM041307		
2/9/2005	H03-SG01	546	12.4	17.5	30	195	4	986	877	945	933	ISO-9141-2	ALM006117	ALM041307		
2/8/2005												SAE-J1850 VPW	ALM006117	ALM041307		
2/9/2005	C03-SG01	1231	12.6	15.4	30	195	4	1012	901	928	875	Vehicle will not commu	ALM006117	ALM041307		
2/9/2005	H03-SG02	538	12.7	18.3	23	193	4	1022	884	933	925	Vehicle will not commu	ALM006117	ALM041307		
2/9/2005	C03-SG01	1694	12.4	17.9	29	195	5	999	900	937	938	Vehicle will not commu	ALM006117	ALM041307		
2/9/2005	H03-SG01	859	12.3	19.4	25	195	3	1023	919	947	944	Vehicle will not commu	ALM006117	ALM041307		
2/10/2005	C03-SG02	1389	12.4	19.6	22	192	5	1029	870	946	940	ISO-9141-2	ALM006117	ALM041307		
2/10/2005	H03-SG06	1401	12.2			193	5	997	876	968	941	SAE-J1850 VPW	ALM006117	ALM041307		
2/10/2005	H03-SG03	342	12.4	13.9	27	193	5	1029	918	955	919	Vehicle will not commu	ALM006117	ALM041307		
2/10/2005	H03-SG06	608	12.6	18.9	25	194	5	1010	853	886	811	SAE-J1850 VPW	ALM006117	ALM041307		
2/11/2005	C03-SG01	488	12.2	10.1	30	195	5	1001	946	935	876	SAE-J1850 PWM	ALM006117	ALM041307		
2/11/2005	C03-SG01	484	12.1	17.1	32	196	6	1001	875	940	935	SAE-J1850 VPW	ALM006117	ALM041307		
2/11/2005	H03-SG08	1523	12.9	10.4	30	193	3	995	905	941	873	ISO-9141-2	ALM006117	ALM041307		
2/11/2005	H03-SG06	445	12.4	21.3	25	193	4	1023	865	955	860	ISO-9141-2	ALM006117	ALM041307		
2/14/2005	H03-SG01	954		15.1	41	195	3	973	875	911	886	ISO-9141-2	ALM006117	ALM049099		
2/14/2005	H03-SG01	893	13.3	22.1	32	196	4	972	905	897	900	Vehicle will not commu	ALM006117	ALM049099		
2/14/2005	C03-SG01	1066	12.5	15	44	193	5	1008	916	872	867	Vehicle will not commu	ALM006117	ALM049099		
2/14/2005	C03-SG01	1462	12.4	14.1	31	195	4	1001	943	868	883	Vehicle will not commu	ALM006117	ALM049099		
2/15/2005	H03-SE08	931	13	17.8	42	194	6	982	817	826	791	SAE-J1850 VPW	ALM006117	ALM049099		
2/15/2005	C03-SG01			16.5	45	195	4	985	914	912	892	SAE-J1850 VPW	ALM006117	ALM049099		
2/15/2005	C03-SG01	748	12.4	15	50	196	4	985	914	931	924	Vehicle will not commu	ALM006117	ALM049099		
2/15/2005	H03-SG06	1515	12.6	15	50	193	3	980	930	927	919	ISO-9141-2	ALM006117	ALM049099		
2/16/2005	H03-SG06	1223	12.7	17.4	27	194	3	1020	864	902	875	SAE-J1850 VPW	ALM006117	ALM049099		
2/16/2005	H03-SG06	995	12.6	15.4	25	193	5	997	824	814	838	SAE-J1850 VPW	ALM006117	ALM049099		
2/16/2005	H03-SG01	712	13	24	25	195	4	987	876	940	942	ISO-9141-2	ALM006117	ALM049099		
2/16/2005	H03-SG06	537	12.7	21.3	28	193	7	996	899	903	903	SAE-J1850 VPW	ALM006117	ALM049099		
2/16/2005	C03-SG01	1123	12.3	11	35	195	4	1002	946	949	949	Vehicle will not commu	ALM006117	ALM049099		
2/17/2005	H03-SG06	1642	12.3	18.1	31	193	5	997	706	870	951	Vehicle will not commu	ALM006117	ALM049099		H04-SE08
2/17/2005	C03-SG01	484	12.9	17.1	32	195	4	1001	875	940	943	SAE-J1850 VPW	ALM006117	ALM049099		
2/17/2005	H03-SG06	1078	13.2	9.4	32	194	3	996	903	885	845	Vehicle will not commu	ALM006117	ALM049099		
2/17/2005	H03-SG02	409	12.5	18	31	193	4	986	885	936	927	ISO-9141-2	ALM006117	ALM049099		
2/17/2005	H03-SG02	834	12.8			193	3	985	916	932	869	SAE-J1850 PWM	ALM010867	ALM049099		
2/18/2005	H03-SG02	380	12.7	10.9	25	193	5	991	891	927	861	Vehicle will not commu	ALM010867	ALM049099		

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
2/18/2005	H03-SG02	641	12.2	20.6	23	193	5	991	886	938	877	SAE-J1850 PWM	ALM010867	ALM049099		
2/18/2005	H03-SG06	1520	12.6	18.4	21	194	6	1026	900	918	925	Vehicle will not commu	ALM010867	ALM049099		
2/19/2005	H03-SG01	1801	12.3	20.9	34	195	4	982	872	943	937	Vehicle will not commu	ALM049099	ALM010867		
2/19/2005	C03-SG01	1706	12.1	21.1	32	195	4	996	917	938	933		ALM049099	ALM010867		
2/19/2005	H03-SG01	1586	12.4	21.6	35	195	4	981	869	936	872	Vehicle will not commu	ALM010867	ALM049099		
2/19/2005	C03-SG01	1031	12.5	23	37	195	5	994	873	932	915	Vehicle will not commu	ALM049099	ALM010867		
2/21/2005	H03-SG01	1107	12.3	21.9	28	196	4	980	845	871	891	SAE-J1850 PWM	ALM010867	ALM049099		
3/11/2005	H03-SG03	1813	12.7	19	22	193	5	1017	868	878	909	Vehicle will not commu	ALM010867	ALM049099		
3/17/2005	H03-SG02	1123	12.8	15.1	36	194	5	977	909	913	864	Vehicle will not commu	ALM010867	ALM049099		Flowmeter K04-SE01; m
3/24/2005	H03-SG01	1003	12.3	23.6	30	195	4	1012	865	925	917	SAE-J1850 VPW	ALM010867	ALM049099		Flowmeter I04-SE03
2/22/2005	H03-SG01	238	12.5	17.4	34	195	4	987	878	937	887	SAE-J1850 VPW	ALM010867	ALM049099		
2/22/2005	C03-SG01	1711	12.6	18.9	27	194	4	1027	942	924	917	SAE-J1850 VPW	ALM049099	ALM010867		I04-SE03
2/22/2005	H03-SG06	1427		15.6	40	194	4	996	903	943	930	Vehicle will not commu	ALM010867	ALM049099		
2/22/2005	H03-SG01	388	12.4	27.3	25	195	4	1026	918	950	914	Vehicle will not commu	ALM010867	ALM049099		
3/10/2005	H03-SG01	279	12.4	19.1	33	195	3	1008	904	934	926	ISO-9141-2	ALM010867	ALM049099		Flow I04-SE03; mpg 17
2/23/2005	C03-SG01	1651	12.6	16.4	33	195	5	1021	887	938	934	Vehicle will not commu	ALM010867	ALM049099		
2/23/2005	H03-SG06	1326	12.7	21.8	27	194	-4	995	901	937	961	Vehicle will not commu	ALM010867	ALM049099		
2/23/2005	H03-SG06	780	12.3	23.9	22	193	4	992	861	929	908	Vehicle will not commu	ALM010867	ALM049099		
2/23/2005	H03-SG01	1749	12.2	18	30	195	4	1021	876	935	941	Vehicle will not commu	ALM010867	ALM049099		
2/23/2005	H03-SG02			19.8	22							Vehicle will not commu	ALM010867	ALM049099		
2/25/2005	H03-SG06											ISO-9141-2				
2/25/2005	C03-SG01	1503	12.5	15.3	31	195	4	1019	863	936	930	Vehicle will not commu	ALM010867	ALM049099		
2/24/2005	H03-SG03	409	12.6	20.9	30	193	5	1023	907	935	918	SAE-J1850 VPW	ALM010867	ALM049099		
3/19/2005	C03SG01	810		12.1	25	195	5	1016	906	934	934	Vehicle using any of the above	ALM010867	ALM049099		Flow I04-SE03; mpg 20.198
3/21/2005	C03SG02	727	12.8	20.3	28	193	5	989	901	927	858	SAE-J1850 PWM	ALM010867	ALM049099		
2/26/2005	H03-SG06	388	12.6	25.4	21	193	5	1012	853	889	888	Vehicle will not commu	ALM010867	ALM049099		
2/25/2005	H04-SG03	986	12.5	17.6	30	193	5	983	871	972	945	ISO-9141-2	ALM010867	ALM049099		
2/25/2005	C03-SG01	1692	12.7	18.9	30	195	4	1018	864	953	934	SAE-J1850 PWM	ALM010867	ALM049099		
2/25/2005	H03-SG01	506	12.5			191	6	990	859	918	917	Vehicle will not commu	ALM010867	ALM049099		
2/26/2005	H03-SG02	1306	12.3	16.6	32	192	5	983	876	918	854	Vehicle will not commu	ALM010867	ALM049099		
2/26/2005	H03-SG03	1613	12.3	14.9	32	193	5	985	875	976	978	SAE-J1850 PWM	ALM010867	ALM049099		
2/26/2005	H03-SG02	263	12.5	17.8	30	193	4	1020	913	931	911	SAE-J1850 PWM	ALM010867	ALM049099		
3/25/2005	H03-SG02	1519	12.3	20.3	34	195	4	1015	912	933	929	SAE-J1850 PWM	ALM042613	ALM049099		Flow I04-SE03; mpg 17
2/28/2005	H03-SG03	950	12.4	22.9	22	193	4	1016	869	971	939	ISO-9141-2	ALM010867	ALM049099		
2/28/2005	H03-SG06	872	12.8			193	5	986	934	968	968	Vehicle will not communicate using any of the above communication protocols.				
2/28/2005	H03-SG06	586	12.8	70.3	21	193	5	985	852	909	862	Vehicle will not commu	ALM010867	ALM049099		
2/28/2005	H03-SG03	1604	12.5	18.1	23	193	4	979	869	927	912	Vehicle will not communicate using any of the above communication protocols.				
3/30/2005	H03-SG06	722	12.5	19.3	47	193	4	990	830	914	902	ISO 9141	ALM042613	ALM049099		Flow I04-SE08; mpg 27.63
3/1/2005	C03-SG01	764	12.5	19.4	23	195	4	996	874	940	939	Vehicle will not commu	ALM010867	ALM049099		
3/29/2005	C03SG02	1720	12.3	25	35	193	5	973	844	922	916	J1850VPW	ALM041623	ALM049099		Flowmeter I04-SE03; mpg 20.1
3/1/2005	H03-SG06	1754	13.1	21.6	20	193	6	1016	856	927	915	Vehicle will not commu	ALM010867	ALM049099		
3/2/2005	H03-SG02	558	12.4	14.9	26	193	5	977	842	859	880	Vehicle will not commu	ALM010867	ALM049099		
3/2/2005	C03-SG01	1812	12.7	23.9	21	195	4	989	902	933	931	ISO-9141-2	ALM010867	ALM049099		J04-SE06
3/3/2005	C03-SG01	1774	12.8	16.4	56	195	3	988	980	932	929	Vehicle will not commu	ALM010867	ALM049099		
2/3/2005	H03-SG01	845	12.5	22.4	24	195	4	779	870	943	936	Vehicle will not commu	ALM010867	ALM049099		
3/3/2005	H03-SG02	1741	12.7	18.6	32	193	4	1014	909	926	920	Vehicle will not commu	ALM010867	ALM049099		
3/4/2005	H03-SG02	192	12.4	22	23	193	5	975	870	933	881	ISO-9141-2	ALM010867	ALM049099		
3/4/2005	H03-SG02	1390	12.7	20.8	32	193	5	977	871	926	857	Vehicle will not commu	ALM010867	ALM049099		
3/4/2005	H03-SG06	1804		65	9.6	194	5	985	887	925	914	Vehicle will not commu	ALM010867	ALM049099		
3/4/2005	H03-SG02	1702	12.2	12.1	62	195	5	1011	911	941	881	SAE-J1850 PWM	ALM010867	ALM049099		
3/4/2005	H03-SG06	1087	12.8	21.9	23	194	5	983	852	905	854		ALM010867	ALM049099		
3/4/2005	H03-SG06	1312	12.5	19.4	38	193	5	1011	888	901	847	Vehicle will not commu	ALM010867	ALM049099		

Page 5 (Installation for Preconditioning Drive)																
SEMTECH System Information (ERG)																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
3/5/2005	H03-SG03	366	12.5	21.7	27	193	4	989	881	857	913	SAE-J1850 PWM	ALM010867	ALM049099		
3/5/2005	H03-SG03	734		19.8	31	193	4	987	876	866	913	ISO-9141-2	ALM010867	ALM049099		Flowmeter H04-SE03
3/5/2005	C03-SG01	1467	12.6			195	3	1000	876	943	938	Vehicle will not commu	ALM010867	ALM049099		
3/5/2005	H03-SG06	706	12.8	17.9	33	193	3	995	895	919	919	Vehicle will not commu	ALM010867	ALM049099		
3/4/2005	H03-SG03	347	12.7	14.3	37	194	5	995	897	905	843	Vehicle will not commu	ALM010867	ALM049099		
3/7/2005	H03-SG03	1609		13.3	30	193	4	973	864	925	916	SAE-J1850 PWM	ALM010867	ALM049099		
3/7/2005	H03-SG01	911	12.5	20.6	25	196	4	969	829	856	868	Vehicle will not commu	ALM010867	ALM049099		
3/7/2005	C03-SG01	1050	12.5	13.9	40	195	4	983	849	924	926	Vehicle will not commu	ALM010867	ALM049099		
3/7/2005	H03-SG03	297		18.6	35	193	4	971	898	837	892	Vehicle will not commu	ALM010867	ALM049099		
3/7/2005	H03-SG01	1164	12.4	16.9	41	191	4	969	864	935	931	ISO-9141-2	ALM010867	ALM049099		
3/8/2005	H03-SG06	422		25	22	194	5	967	887	928	918	SAE-J1850 VPW	ALM010867	ALM049099		
3/9/2005	H03-SG03	1011				194	4	984	912	869	933	Vehicle will not commu	ALM010867	ALM049099		
3/8/2005	H03-SG02	1756	12.5	22.6	22	193	5	990	846	865	901	Vehicle will not commu	ALM010867	ALM049099		
3/8/2005	H03-SG02	1743	13			193	6	986	850	921	907	ISO-9141-2	ALM010867	ALM049099		
4/4/2005	H03-SG02	1144	12.8	25	36	193	4	970	865	899	900	ISO-9141-2	ALM042613	ALM049099		
4/5/2005	H03-SG01	1415	12.4	19.9	68	194	3	966	856	927	921	ISO-9141-2	ALM042613	ALM049099		Flow K04-SE03
4/5/2005	H03-SG02	300	12.8	21.8	58	193	5	1002	862	884	892	SAE-J1850 VPW	ALM042613	ALM049099		
4/5/2005	H03-SG02	576	12.7	19.9	70	193	4	968	897	882	894	ISO-9141-2	ALM042613	ALM049099		
4/4/2005	H03-SG02	952	12.8	25.6	34	193	5	1002	864	884	891	ISO-9141-2	ALM042613	ALM04299		
4/4/2005	H03-SG02	1508	12.7	22.3	37	193	5	971	864	915	893	SAE-J1850 VPW	ALM042613	ALM049099		
4/2/2005	C03-SG02	1529	12.7	27.3	23	193	5	1021	909	939	928	ISO-9141-2	ALM042613	ALM049099		
4/2/2005	C03-SG01	970	12.5	15	24	195	3	997	862	934	932	SAE-J1850 VPW	ALM0402613	ALM049099		
4/2/2005	C03-SG02	1285	12.8	16	24	193	4	1026	911	931	881	SAE-J1850 VPW	ALM042613	ALM049099		
3/14/2005	H03-SG01	563/194	12.4	13.1	29	194	3		880	936	934	Vehicle will not commu	ALM010867	ALM049099		FID Fuel Pressure - 563
3/9/2005	H03-SG01	524	12.3	21.4	22	195	4	1018	772	946	940	Vehicle will not commu	ALM010867	ALM049099		
3/9/2005	H03-SG06	389	12.9	12.8	24	194	4	1016	886	918	902	Vehicle will not commu	ALM010867	ALM049099		
3/10/2005	H03-SG02	700	12.4	18.1	28	194	4	1007	901	932	893	Vehicle will not commu	ALM010867	ALM049099		Flow K04-SE01; mpg 27
3/10/2005	H03-SG06	1757	13	20.6	30	193	4	980	849	910	883	Vehicle will not commu	ALM010867	ALM049099		L04-SE13
3/10/2005	H03-SG06	596	12.6	17.4	25	194	6	977	797	833	849	Vehicle will not commu	ALM010867	ALM049099		
3/10/2005	C03-SG01	1744		17.4	25	195	4	1005	896	922	917	Vehicle will not commu	ALM010867	ALM049099		
3/11/2005	H03-SG06	1728	12.7	16.9	31	194	5	981	891	900	887	ISO-9141-2	ALM010867	ALM049099		H04-SE08
3/11/2005	H03-SG06	287	12.8	22	22	194	5	986	897	926	919	Vehicle will not commu	ALM010867	ALM049099		
3/11/2005	H03-SG03	1166	12.4	16.9	31	193	5	1011	864	837	884	Vehicle will not commu	ALM010867	ALM049099		
3/12/2005	H03-SG01	1452	12.3	19.3	32	195	4	998	896	924	917	Vehicle will not commu	ALM010867	ALM049099		
3/14/2005	H03-SG03	777	12.2	13.1	29	193	5	1019	874	988	976	Vehicle will not commu	ALM010867	ALM049099		
3/12/2005	H03-SG01	1167	12.6	22.4	24	195	4	998	852	926	916	Vehicle will not commu	ALM010867	ALM049099		
3/12/2005	H03-SG06	1518	12.8	17.8	32	194	4	970	876	890	872	Vehicle will not commu	ALM010867	ALM049099		
3/14/2005	C03-SG01	1819	12.3	23.9	22	195	4	997	916	947	935	Vehicle will not commu	ALM010867	ALM049099		
3/15/2005	H03-SG03	987	12.6	15.9	27	193	5	964	909	974	941	Vehicle will not commu	ALM010867	ALM049099		
3/15/2005	H03-SG01	1791	12.5	18.1	30	195	3	984	876	902	920	Vehicle will not commu	ALM010867	ALM049099		
3/14/2005	C03-SG01	1437	12.5	10.9	31	195	4	997	867	922	883	Vehicle will not commu	ALM010867	ALM049099		
3/14/2005	H03-SG06	1119	12.3	12.9	32	193	4	1018	903	920	907	Vehicle will not commu	ALM010867	ALM049099		
3/14/2005	H03-SG01	818	12.2	24.1	22	195	4	1021	873	926	936	Vehicle will not commu	ALM010867	ALM049099		
3/15/2005	C03-SG01	852	12.3	12.9	25	195	5	1023	913	904	895	Vehicle will not commu	ALM010867	ALM049099		
3/15/2005	H03-SG03	474		16.4	26	194	5	985	910	953	961	Vehicle will not commu	ALM010867	ALM049099		I04 SE03
3/15/2005	H03-SG01	1460	12.3	15.5	26	195	3	1020	920	918	919	Vehicle will not commu	ALM010867	ALM049099		Flowmeter H04-SE08
3/15/2005	H03-SG06	1756	12.8	11.9	24	194	5	1023	858	911	903	Vehicle will not commu	ALM010867	ALM049099		
3/15/2005	H03-SG02	1135	12.4	14.4	26	193	4	986	915	931	93	Vehicle will not commu	ALM010867	ALM049099		Flowmeter K04-SE01
3/16/2005	H03-SG02	1821	12.3	19.1	33		4	983	910	929	930	Vehicle will not commu	ALM010867	ALM049099		

Page 5 (Installation for Precoditioning Drive)																
SEMTECH System Information (ERG)											OBDII		Cylinder Numbers			
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
4/2/2005	H03-SG01	1704	12.9	16	16	195	3	983	875	945	939	Vehicle will not commut	ALM042613	ALM049099		
4/2/2005	C03-SG01	630	12.5	18	23	194	5	994	859	931	918	SAE-J1850 PWM	ALM042613	ALM049099		
4/4/2005	H03-SG02	739	12.6	27	33	193	4	968	862	879	868	Vehicle will not commut	ALM042613	ALM049099		
4/5/2005	H03-SG02	1354		22.1	52		4	968	897	876	886	ISO-15765	ALM041623	ALM049099		
4/5/2005	C03-SG01	1758	12.4	21.9	56	195	4	980	899	929	926	ISO-15765	ALM042613	ALM049099		OBDII protocol - CAN. F
4/4/2005	H03-SG02	1794	13.1	19.4	42	193	4	1006	900	925	921	SAE-J1850 VPW	ALM042613	ALM049099		
4/6/2005	C03-SG02	1004	12.4	22.8	48	193	5	985	851	930	923	Vehicle will not commut	ALM041263	ALM049099		
4/6/2005	H03-SG02	896	12.5	18.9	70	192	5	972	867	885	867	Vehicle will not commut	ALM042163	ALM049099		
4/6/2005	H03-SG01	1118	12.9	22.3	51	195	4	971	858	935	929	Vehicle will not commut	ALM042163	ALM049099		
4/6/2005	H03-SG02	375	12.5	22	50	192	5	972	868	884	909	ISO-9141-2	ALM042613	ALM049099		
4/7/2005	H03-SG01	696	12.6	25.4	33	195	4	977	908	937	906	SAE-J1850 VPW	ALM042613	ALM049099		Flowmeter H03-SE08
4/6/2005	H03-SG01	948	12.3	22.3	50	195	4	1004	857	907	899	ISO-9141-2	ALM042613	ALM049099		
4/6/2005	H03-SG02	410	12.5	21.3	53	193	5	972	901	875	853	ISO-9141-2	ALM047613	ALM049099		
4/6/2005	H03-SG02	1153	12.9	18	73	193	5	972	901	879	891	Vehicle will not commut	ALM042613	ALM049099		
4/7/2005	C03-SG02	1402	12.4	19.9	43	193	4	992	905	899	926	Vehicle will not commut	ALM042163	ALM049099		
4/9/2005	H03-SG06	1030	12.8	21.6	50	194	5	1006	891	931	902	Vehicle will not commut	ALM042613	ALM049099		
4/8/2005	C03-SG02	458	12.8	22.4	30	193	4	990	854	927	913	Vehicle will not commut	ALM042613	ALM049099		
4/8/2005	H03-SG06	1757	12.6	27	30	194	5	1014	887	932	925	Vehicle will not commut	ALM042613	ALM049099		
4/8/2005	C03-SG02	1031		27.4	30	193	5	993	904	939	905	SAE-J1850 VPW	ALM042613	ALM049099		
4/8/2005	H03-SG06	1347		22.1	26	194	6	1009	851	928	913	ISO-9141-2	ALM042613	ALM049099		
4/9/2005	C03-SG02	1802	12.6	23.4	44	193	3	985	807	872	840	Vehicle will not commut	ALM042613	ALM049099		

Page 7 (Installation for Dyne Sampling)																	
SEMTECH System Information (BK1)													OBDII		Cylinder Numbers		
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments	
8/10/2004	H03-SG04	30	0	27	37	193	5	980	858	903	870	Will not communicate	ALM014633	ALM034356	CAL013942		
7/19/2004	H03-SG04	NA	NA	75 F	64	196	4	975	899	903	921	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	29	68	193	5		851	891	875	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	28	72	194	5		851	893	873	ISO-9141-2	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	35	38	194	5		849	872	886	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	32	53	193	5		841	877	841	Will not communicate	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	37	39	193	6		846	875	862	ISO-9141-2	ALM014633	CAL771	CAL013942		
7/20/2004	H03-SG04	30	0	34	55	193	6		852	879	878	Will not communicate	ALM014633	CAL771	CAL013942		
7/21/2004	H03-SG04	30	0	30	58	193	5		851	887	881	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/21/2004	H03-SG04	30	0	30	60	193	5		852	886	889	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/21/2004	H03-SG04	30	0	33	53	193	6		846	876	881	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/21/2004	H03-SG04	30	0	29	65	193	5		827	847	854	ISO-9141-2	ALM014633	CAL771	CAL013942		
7/24/2004	H03-SG04	30	0	19	74	193	4		867	910	892	Will not communicate	ALM014633	ALM066169	CAL013942		
7/22/2004	H03-SG04	30	0	30	63	193	5		853	901	889	SAE-J1850 VPW	ALM014633	CAL771	CAL013942		
7/22/2004	H03-SG04	30	0	32	55	193	5		856	883	866	Will not communicate	ALM014633	CAL771	CAL013942		
7/22/2004	H03-SG04	30	0	30	60	193	5		856	882	854	Will not communicate	ALM014633	CAL771	CAL013942		
7/22/2004	H03-SG04	30	0	32	55	193	5		856	886	887	Will not communicate	ALM014633	CAL771	CAL013942		
7/23/2004	H03-SG04	30	0	26	70	193	5		862	888	880	Will not communicate	ALM014633	CAL771	CAL013942		
7/23/2004	H03-SG04	30	0	26	74	193	4		860	928	889	ISO-9141-2	ALM014633	CAL771	CAL013942		
7/23/2004	H03-SG04	30	0	26	75	194	5		854	894	852	ISO-9141-2	ALM014633	CAL771	CAL013942		
7/23/2004	H03-SG04	30	0	21	70	193	5		858	894	862	Will not communicate	ALM014633	ALM066169	CAL013942		
7/24/2004	H03-SG04	30	0	22	73	193	4		864	904	914	SAE-J1850 VPW	ALM014633	ALM066169	CAL013942		
7/24/2004	H03-SG04	30	0	20	72	193	4		866	912	908	Will not communicate	ALM014633	ALM066169	CAL013942		
7/26/2004	H03-SG04	30	0	20	76	193	4		868	925	885	ISO-9141-2	ALM014633	ALM066169	CAL013942		
7/26/2004	H03-SG04	30	0	23	64	193	5		854	894	857	Will not communicate	ALM014633	ALM066169	CAL013942		
7/26/2004	H03-SG04	30	0	25	48	193	4		864	898	895	Will not communicate	ALM014633	ALM066169	CAL013942		
7/27/2004	H03-SG04	30	0	25	54	193	5		825	868	838	ISO-9141-2	ALM014633	ALM066169	CAL013942		
7/27/2004	H03-SG04	30	0	21	77	193	4		865	928	883	SAE-J1850 PWM	ALM014633	ALM066169	CAL013942		
7/27/2004	H03-SG04	30	0	26	44	193	5		830	871	839	SAE-J1850 VPW	ALM014633	ALM066169	CAL013942		
7/28/2004	H03-SG04	30	0	23	65	193	5		859	924	865	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/28/2004	H03-SG04	30	0	26	49	193	5		817	846	822	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
7/28/2004	H03-SG04	30	0	29	47	193	5		778	886	900	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
7/28/2004	H03-SG04	30	0	24	56	193	5		817	858	820	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/28/2004	H03-SG04	30	0	29	52	193	5		855	883	872	Will not communicate	ALM014633	ALM034356	CAL013942		

Page 7 (Installation for Dyne Sampling)																	
SEMTECH System Information (BK1)													OBDII		Cylinder Numbers		
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments	
7/29/2004	H03-SG04	30	0	24	69	191	4	977	858	928	862	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
7/29/2004	H03-SG04	30	0	26	54	193	5		856	881	874	Will not communicate	ALM014633	ALM034356	CAL013942		
7/29/2004	H03-SG04	30	0	27	56	193	5		816	840	841	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
7/29/2004	H03-SG04	30	0	25	64	193	5	977	811	852	818	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/30/2004	H03-SG04	30	0	23	70	193	5	974	794	825	805	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
7/30/2004	H03-SG04	30	0	22	75	193	4	975	856	830	792	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
7/30/2004	H03-SG04	30	0	25	65	193	5	975	802	821	827	Will not communicate	ALM014633	ALM034356	CAL013942		
8/4/2004	H03-SG04	30	0	30	64	193	5	972	849	838	826	Will not communicate	ALM014633	ALM034356	CAL013942		
7/30/2004	H03-SG04	30	0	23	71	193	5	974	792	834	797	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/31/2004	H03-SG04	30	0	32	39	193	5	977	853	859	830	Will not communicate	ALM014633	ALM034356	CAL013942		
8/3/2004	H03-SG04	30	0	34	50	194	6	974	849	851	837	Will not communicate	ALM014633	ALM034356	CAL013942		
7/31/2004	H03-SG04	30	0	30	54	193	5	978	854	862	845	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
7/31/2004	H03-SG04	30	0	23	77	187	4	977	859	870	829	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/30/2004	H03-SG04	30	0	27	53	193	4	974	852	852	839	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/2/2004	H03-SG04	30	0	30	65	193	5	975	852	857	848	Will not communicate	ALM014633	ALM034356	CAL013942		
8/2/2004	H03-SG04	30	0	31	62	193	5	975	852	846	798	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/2/2004	H03-SG04	30	0	34	51	193	5	975	852	847	839	Will not communicate	ALM014633	ALM034356	CAL013942		
7/31/2004	H03-SG04	30	0	25	71	193	5	978	857	863	853	ISO-9141-2	ALM014633	ALM034356	CAL013942		
7/31/2004	H03-SG04	30	0	31	50	193	5	978	854	864	854	Will not communicate	ALM014633	ALM034356	CAL013942		
8/4/2004	H03-SG04	30	0	28	68	193	5	974	852	835	805	Will not communicate	ALM014633	ALM034356	CAL013942		
8/4/2004	H03-SG04	30	0	27	73	193	5	973	851	831	823	Will not communicate	ALM014633	ALM034356	CAL013942		
8/4/2004	H03-SG04	30	0	27	81	193	4	970	850	843	808	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	24	37	193	5	982	861	901	864	Will not communicate					
8/4/2004	H03-SG04	30	0	29	67	193	4	972	850	837	829	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/5/2004	H03-SG04	30	0	22	69	189	4	982	865	854	817	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/5/2004	H03-SG04	30	0	24	52	193	4	984	862	830	817	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/5/2004	H03-SG04	30	0	28	41	193	5	983	860	823	810	Will not communicate	ALM014633	ALM034356	CAL013942		
8/5/2004	H03-SG04	30	0	24	56	193	4	983	863	830	785	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/5/2004	H03-SG04	30	0	29	38	194	5	983	859	829	824	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/6/2004	H03-SG04	30	0	23	51	193	5	985	865	849	819	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/6/2004	H03-SG04	30	0	22	58	193	5	984	866	863	806	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/6/2004	H03-SG04	30	0	25	44	193	5	985	863	843	812	Will not communicate	ALM014633	ALM034356	CAL013942		
8/6/2004	H03-SG04	30	0	26	38	194	5	983	861	836	828	Will not communicate	ALM014633	ALM034356	CAL013942		
8/7/2004	H03-SG04	30	0	19	72	193	4	981	863	841	784	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/7/2004	H03-SG04	30	0	23	57	193	5	981	860	822	774	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/7/2004	H03-SG04	30	0	28	42	193	5	979	856	786	775	Will not communicate	ALM014633	ALM034356	CAL013942		
8/9/2004	H03-SG04	30	0	30	47	193	5	982	858	909	889	Will not communicate	ALM014633	ALM034356	CAL013942		
8/9/2004	H03-SG04	30	0	27	58	193	4	982	860	933	927	Will not communicate	ALM014633	ALM034356	CAL013942		
8/10/2004	H03-SG04	30	0	22	56	193	4	982	863	937	894	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/9/2004	H03-SG04	30	0	22	73	187	4	981	862	809	798	Will not communicate	ALM014633	ALM034356	CAL013942		

Page 7 (Installation for Dyne Sampling)																	
SEMTECH System Information (BK1)												OBDII		Cylinder Numbers			
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments	
8/10/2004	H03-SG04	30	0	22	57	193	4	983	863	903	873	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/10/2004	H03-SG04	30	0	22	56	193	4	983	863	905	879	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/10/2004	H03-SG04	30	0	25	47	193	5	981	861	913	879	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/9/2004	H03-SG04	30	0	29	52	193	5	982	859	915	889	Will not communicate	ALM014633	ALM034356	CAL013942		
8/11/2004	H03-SG04	30	0	20	64	193	4	982	862	897	879	Will not communicate	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	20	57	193	4	983	863	895	866	Will not communicate	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	19	63	193	4	983	865	903	872	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	24	37	193	5	980	868	898	864	Will not communicate	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	16	70	193	4	983	867	946	884	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/12/2004	H03-SG04	30	0	24	38	193	5	982	860	894	868	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/13/2004	H03-SG04	30	0	23	49	193	5	985	864	906	859	Will not communicate	ALM014633	ALM034356	CAL013942		
8/13/2004	H03-SG04	30	0	21	59	193	4	985	865	901	856	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/13/2004	H03-SG04	30	0	19	69	193	5	984	865	944	867	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/14/2004	H03-SG04	30	0	23	54	193	5	986	866	904	860	Will not communicate	ALM014633	ALM034356	CAL013942		
8/14/2004	H03-SG04	30	0	20	64	193	4	986	866	905	855	Will not communicate	ALM014633	ALM034356	CAL013942		
8/14/2004	H03-SG04	30	0	20	66	193	4	986	865	904	863	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/16/2004	H03-SG04	30	0	24	47	193	5	984	863	901	866	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/16/2004	H03-SG04	30	0	25	54	193	5	983	860	908	864	Will not communicate	ALM014633	ALM034356	CAL013942		
8/16/2004	H03-SG04	30	0	18	74	193	4	984	867	939	868	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/17/2004	H03-SG04	30	0	28	57	193	5	978	855	888	852	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/17/2004	H03-SG04	30	0	26	64	193	5	978	856	884	853	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/19/2004	H03-SG04	30	0	22	51	193	4	980	861	941	888	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/17/2004	H03-SG04	30	0	24	70	193	5	978	859	932	840	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/18/2004	H03-SG04	30	0	30	47	193	5	974	851	882	850	Will not communicate	ALM014633	ALM034356	CAL013942		
8/18/2004	H03-SG04	30	0	27	58	193	5	974	852	886	852	Will not communicate	ALM014633	ALM034356	CAL013942		
8/19/2004	H03-SG04	30	0	22	49	193	5	980	859	887	852	ISO-9141-2	ALM014633	ALM034356	CAL013942		
st vehicle - trunk & passenger compartment too small - Mike S.																	
8/19/2004	H03-SG04	30	0	22	48	193	5	980	860	891	862	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/19/2004	H03-SG04	30	0	22	52	193	5	979	859	895	852	Will not communicate	ALM014633	ALM034356	CAL013942		
8/19/2004	H03-SG04	30	0	21	47	193	4	981	860	899	861	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942		
8/20/2004	H03-SG04	30	0	19	74	193	4	978	860	894	862	Will not communicate	ALM014633	ALM034356	CAL013942		
8/20/2004	H03-SG04	30	0	20	72	193	4	978	861	934	847	Will not communicate	ALM014633	ALM034356	CAL013942		
ive), extended precond route. Mike S.																	
8/21/2004	H03-SG04	30	0	21	74	193	4	982	861	895	866	Will not communicate	ALM014633	ALM034356	CAL013942		
8/21/2004	H03-SG04	30	0	20	78	193	4	982	862	891	855	Will not communicate	ALM014633	ALM034356	CAL013942		
8/23/2004	H03-SG04	30	0	25	84	193	5	973	852	882	862	Will not communicate	ALM014633	ALM034356	CAL013942		
8/23/2004	H03-SG04	30	0	25	79	193	5	973	839	855	829	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/23/2004	H03-SG04	30	0	26	74	193	5	973	854	931	868	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942		
8/23/2004	H03-SG04	30	0	26	78	193	5	973	850	878	858	Will not communicate	ALM014633	ALM034356	CAL013942		
8/24/2004	H03-SG04	30	0	23	79	193	4	975	855	897	838	ISO-9141-2	ALM014633	ALM034356	CAL013942		
8/24/2004	H03-SG04	30	0	22	81	193	4	974	853	895	909	Will not communicate	ALM014633	ALM034356	CAL013942		
8/24/2004	H03-SG04	30	0	23	77	193	4	974	810	926	921	Will not communicate	ALM014633	ALM034356	CAL013942		
8/24/2004	H03-SG04	30	0	25	65	193	5	970	849	904	895	Will not communicate	ALM014633	ALM034356	CAL013942		
8/25/2004	H03-SG04	30	0	29	70	193	4	970	847	906	893	Will not communicate	ALM014633	ALM034356	CAL013942		
8/25/2004	H03-SG04	30	0	27	74	193	5	970	849	947	889	Will not communicate	ALM014633	ALM034356	CAL013942		

Page 7 (Installation for Dyne Sampling)															
SEMTECH System Information (BK1)												OBDII		Cylinder Numbers	
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #
8/27/2004	H03-SG01	30	0	31	62	195	4	974	860	954	944	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942
8/26/2004	H03-SG01	30	0	27	76	195	4	971	858	945	941	Will not communicate	ALM014633	ALM034356	CAL013942
8/28/2004	H03-SG01	30	0	24	74	195	4	978	868	961	938	Will not communicate	ALM014633	ALM034356	CAL013942
8/26/2004	H03-SG01	30	0	30	65	195	4	971	855	850	942	Will not communicate	ALM014633	ALM034356	CAL013942
8/26/2004	H03-SG01	30	0	28	70	195	4	970	858	949	942	Will not communicate	ALM014633	ALM034356	CAL013942
8/27/2004	H03-SG01	30	0	31	60	195	4	974	860	955	945	ISO-9141-2	ALM014633	ALM034356	CAL013942
8/27/2004	H03-SG01	30	0	33	54	195	4	974	859	948	944	SAE-J1850 VPW			
8/27/2004	H03-SG01	30	0	34	53	195	4	974	858	952	941	Will not communicate	ALM014633	ALM034356	CAL013942
8/27/2004	H03-SG01	30	0	30	65	193	4	973	860	947	945	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942
8/28/2004	H03-SG01	30	0	26	63	195	4	978	867	953	952	Will not communicate	ALM014633	ALM034356	CAL013942
8/28/2004	H03-SG01	30	0	24	74	195	4	978	867	958	935	Will not communicate	ALM014633	ALM034356	CAL013942
8/28/2004	H03-SG01	30	0	24	79	195	4	977	866	951	942	SAE-J1850 VPW	ALM014633	ALM034356	CAL013942
8/30/2004	H03-SG01	30	0	21	74	193	4	981	872	956	953	Will not communicate	ALM014633	ALM034356	CAL013942
8/30/2004	H03-SG01	30	0	30	45	195	4	982	868	956	949	Will not communicate	ALM014633	ALM034356	CAL013942
8/30/2004	H03-SG01	30	0	29	47	195	4	982	869	955	951	Will not communicate	ALM014633	ALM034356	CAL013942
8/30/2004	H03-SG01	30	0	25	56	195	4	982	871	964	953	Will not communicate	ALM014633	ALM034356	CAL013942
8/30/2004	H03-SG01	30	0	22	76	195	4	982	872	962	955	Will not communicate	ALM014633	ALM034356	CAL013942
8/31/2004	H03-SG01	30	0	31	42	195	4	984	874	940	880	Will not communicate	ALM014633	ALM034356	CAL013942
8/31/2004	H03-SG01	30	0	26	62	195	4	985	876	961	955	SAE-J1850 PWM	ALM014633	ALM034356	CAL013942
8/31/2004	H03-SG01	30	0	33	42	195	4	984	871	938	881	Will not communicate	ALM014633	ALM034356	CAL013942
8/31/2004	H03-SG01	30	0	21	82	193	4	984	877	959	956	ISO-9141-2	ALM014633	ALM034356	CAL013942
8/31/2004	H03-SG04	30	0	27	58	195	4	985	877	947	935	ISO-9141-2	ALM014633	ALM034356	CAL013942
9/1/2004	H03-SG01	30	0	25	63	195	4	985	880	930	859	Will not communicate	FHJ742	ALM034356	CAL013942
9/1/2004	H03-SG01	30	0	29	46	195	4	985	876	918	862	Will not communicate	FHJ742	ALM034356	CAL013942
9/2/2004	H03-SG01	30	0	31	39	195	4	979	868	940	879	Will not communicate	FHJ742	ALM034356	CAL013942
9/1/2004	H03-SG01	30	0	26	60	195	4	985	878	940	864	Will not communicate	FHJ742	ALM034356	CAL013942
9/1/2004	H03-SG01	30	0	30	43	195	4	984	874	928	894	Will not communicate			
9/2/2004	H03-SG01	30	0	28	52	195	4	981	872	934	864	Will not communicate	FHJ742	ALM034356	CAL013942
9/2/2004	H03-SG01	30	0	25	65	195	4	981	873	931	855	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942
9/2/2004	H03-SG01	30	0	25	64	195	4	981	873	931	856	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942
9/8/2004	H03-SG01	30	0	18	69	195	4	984	883	931	906	Will not communicate	FHJ742	ALM034356	CAL013942
9/9/2004	H03-SG01	30	0	25	47	195	4	983	875	915	873	Will not communicate	FHJ742	ALM034356	CAL013942
9/9/2004	H03-SG01	30	0	20	70	195	4	983	877	941	876	Will not communicate	FHJ742	ALM034356	CAL013942
9/9/2004	H03-SG01	30	0	27	42	195	4	982	873	909	870	Will not communicate	FHJ742	ALM034356	CAL013942
9/10/2004	H03-SG01	30	0	23	53	195	4	983	872	934	861	ISO-9141-2	FHJ742	ALM034356	CAL013942
9/10/2004	H03-SG01	30	0	24	55	195	4	983	873	938	867	Will not communicate	FHJ742	ALM034356	CAL013942
9/10/2004	H03-SG01	30	0	31	31	195	4	982	872	924	883	Will not communicate	FHJ742	ALM034356	CAL013942
9/10/2004	H03-SG01	30	0	26	45	195	4	983	871	936	860	Will not communicate	FHJ742	ALM034356	CAL013942
9/10/2004	H03-SG01	30	0	30	33	195	4	982	868	912	863	Will not communicate	FHJ742	ALM034356	CAL013942
9/11/2004	H03-SG01	30	0	29	41	195	4	982	873	912	869	Will not communicate	FHJ742	ALM034356	CAL013942
9/11/2004	H03-SG01	30	0	24	58	195	4	982	810	838	835	Will not communicate	FHJ742	ALM034356	CAL013942

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SEMTECH System Information (BK1)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
9/11/2004	H03-SG01	30	0	18	81	176	4	981	878	950	898	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/11/2004	H03-SG01	30	0	23	61	195	4	982	875	933	861	Will not communicate	FHJ742	ALM034356	CAL013942	
9/11/2004	H03-SG01	30	0	28	41	195	4	982	874	911	865	Will not communicate	FHJ742	ALM034356	CAL013942	
9/14/2004	H03-SG01	30	0	30	56	195	4	974	824	907	856	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
9/14/2004	H03-SG01	30	0	28	60	195	4	974	829	910	866	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/14/2004	H03-SG01	30	0	30	57	195	4	974	829	908	859	Will not communicate	FHJ742	ALM034356	CAL013942	
9/15/2004	H03-SG01	30	0	26	67	178	3	970	864	944	933	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/14/2004	H03-SG03	1877	12.6			194	5	970	859	897	918	Will not communicate				
9/15/2004	H03-SG01	30	0	26	76	195	3	970	862	911	869	Will not communicate	FHJ742	ALM034356	CAL013942	
9/15/2004	H03-SG01	30	0	26	73	195	3	972	863	911	877	Will not communicate	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	27	31	195	3	977	868	918	868	Will not communicate	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	28	30	195	4	977	868	917	865	Will not communicate	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	26	36	195	4	979	870	919	908	Will not communicate	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	24	47	195	4	980	872	916	871	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/15/2004	H03-SG01	30	0	27	66	195	4	970	862	915	875	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	26	32	195	4	979	870	919	909	Count not hook VI in	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	21	68	195	3	979	874	929	873	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/17/2004	H03-SG01	30	0	22	55	195	4	978	872	914	877	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/17/2004	H03-SG01	30	0	26	44	195	4	979	870	920	873	Will not communicate	FHJ742	ALM034356	CAL013942	
9/17/2004	H03-SG01	30	0	27	45	195	4	978	870	918	869	Will not communicate	FHJ742	ALM034356	CAL013942	
9/16/2004	H03-SG01	30	0	25	44	195	4	979	869	914	868	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
9/17/2004	H03-SG01	30	0	21	57	195	3	978	872	913	867	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942	
9/18/2004	H03-SG01	30	0	22	80	195	3	981	874	942	897	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
9/18/2004	H03-SG01	30	0	32	47	195	4	979	869	918	864	Will not communicate	FHJ742	ALM034356	CAL013942	
9/18/2004	H03-SG01	30	0	32	45	195	4	978	866	917	877	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/18/2004	H03-SG01	30	0	23	72	195	4	980	873	918	873	Will not communicate	FHJ742	ALM034356	CAL013942	
9/20/2004	H03-SG01	30	0	26	37	195	4	982	871	919	868	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/20/2004	H03-SG01	30	0	29	34	195	3	979	867	943	866	Will not communicate	FHJ742	ALM034356	CAL013942	
9/20/2004	H03-SG01	30	0	23	45	195	3	981	872	913	865	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/18/2004	H03-SG01	30	0	28	57	195	4	978	867	924	877	Will not communicate	FHJ742	ALM034356	CAL013942	
9/19/2004	H03-SG01	30	0	29	33	195	4	980	868	922	885	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/30/2004	H03-SG06	30	0	19	47	194	4	986	859	922	816	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942	
9/20/2004	H03-SG01	30	0	27	36	195	4	980	867	922	885	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/21/2004	H03-SG01	195	0	27	48	195	3	981	870	940	862	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/21/2004	H03-SG01	30	0	25	51	195	4	981	873	943	870	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/21/2004	H03-SG01	30	0	27	46	195	3	981	871	940	866	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942	
9/21/2004	H03-SG01	30	0	31	42	195	4	980	869	939	860	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/21/2004	H03-SG01	30	0	23	53	195	3	981	872	946	870	ISO-9141-2	FHJ742	ALM034356	CAL013942	
9/22/2004	H03-SG06	30	0	28	43	194	6	990	858	905	873	Will not communicate	FHJ742	ALM034356	CAL013942	
9/22/2004	H03-SG06	30	0	29	39	194	7	890	860	917	879	Will not communicate	FHJ742	ALM034356	CAL013942	

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SEMTECH System Information (BK1)													OBDII		Cylinder Numbers		
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments	
9/22/2004	H03-SG06	30	0	30	40	194	7	989	857	906	877	Will not communicate	FHJ742	ALM034356	CAL013942		
9/22/2004	H03-SG01	30	0	19	63	195	3	983	876	928	928	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/22/2004	H03-SG06	30	0	25	45	194	5	991	897	908	859		FHJ742	ALM034356	CAL013942		
9/22/2004	H03-SG06	30	0	24	46	194	5	991	887	905	859	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/23/2004	H03-SG06	30	0	25	57	194	5	987	858	910	871	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/23/2004	H03-SG06	30	0	25	54	194	6	987	898	914	867	Will not communicate	FHJ742	ALM034356	CAL013942		
9/23/2004	H03-SG06	30	0	23	61	174	5	986	857	944	917	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942		
9/24/2004	H03-SG06	30	0	16	78	193	4	991	863	910	862	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/24/2004	H03-SG06	30	0	27	34	194	5	991	862	913	875	Will not communicate	FHJ742	ALM034356	CAL013942		
9/24/2004	H03-SG06	30	0	21	58	194	5	991	863	909	861	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/24/2004	H03-SG06	30	0	25	43	194	6	992	862	913	874	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/25/2004	H03-SG06	30	0	23	55	194	5	993	864	916	875	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942		
9/25/2004	H03-SG06	30	0	29	32	194	4	992	861	911	886	Will not communicate	FHJ742	ALM034356	CAL013942		
9/25/2004	H03-SG06	30	0	29	33	195	5	993				Will not communicate	FHJ742	ALM034356	CAL013942		
9/25/2004	H03-SG06	30	0	15	79	193	3	992	867	937	905	Will not communicate	FHJ742	ALM034356	CAL013942		
9/13/2004	H03-SG01	30	0	32	39	195	4	974	832	926	878						
9/13/2004	H03-SG01	30	0	27	49	195	4	976	832	914	864	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942		
9/13/2004	H03-SG01	30	0	25	55	182	3	976	868	955	938	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/13/2004	H03-SG01	30	0	31	42	195	4	975	827	917	872	Will not communicate	FHJ742	ALM034356	CAL013942		
9/13/2004	H03-SG01	30	0	31	42	195	4	975	830	917	871	Will not communicate	FHJ742	ALM034356	CAL013942		
9/27/2004	H03-SG06	30	0	26	40	193	6	989	858	901	884	Will not communicate	FHJ742	ALM034356	CAL013942		
9/27/2004	H03-SG06	30	0	22	63	194	5	990	861	911	866	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/27/2004	H03-SG06	30	0	22	60	193	5	990	861	911	866	Will not communicate	FHJ742	ALM034356	CAL013942		
9/27/2004	H03-SG06	30	0	16	79	193	5	989	864	907	852	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	21	58	194	5	993	863	901	841	SAE-J1850 PWM	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	20	59	194	5	993	864	906	858	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	20	67	194	5	991	863	901	841	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	25	26	194	5	991	862	899	872	Will not communicate	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	23	48	194	4	993	864	906	858	Will not communicate	FHJ742	ALM034356	CAL013942		
9/29/2004	H03-SG06	30	0	23	27	194	5	988				Will not communicate	FHJ742	ALM034356	CAL013942		
9/29/2004	H03-SG06	30	0	16	56	194	4	991	864	887	851	ISO-9141-2	FHJ742	ALM034356	CAL013942		
9/29/2004	H03-SG06	30	0	23	27	194	5	989				Will not communicate	FHJ742	ALM034356	CAL013942		
9/29/2004	H03-SG06	30	0	12	70	193	4	991	866	900	828	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942		
9/29/2004	H03-SG06	30	0	19	43	193	5	991				Will not communicate	FHJ742	ALM034356	CAL013942		
9/28/2004	H03-SG06	30	0	25	28	194	6	991	861	899	873	Will not communicate	FHJ742	ALM034356	CAL013942		
9/30/2004	H03-SG06	30	0	19	48	194	4	986	859	923	833	ISO-9141-2	FHJ742	ALM034356	CAL013942		

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SEMTECH System Information (BK1)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
9/30/2004	H03-SG06	30	0	26	42	193	6	984	855	901	864	Will not communicate	FHJ742	ALM034356	CAL013942	
9/30/2004	H03-SG06	30	0	28	40	194	5	983	853	899	824	Will not communicate	FHJ742	ALM034356	CAL013942	
9/30/2004	H03-SG06	30	0	27	42	194	6	984	855	901	864	SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
10/1/2004	H03-SG06	30	0	20	77	194	5	982				SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
10/1/2004	H03-SG06	30	0	21	78	194	5	982				SAE-J1850 VPW	FHJ742	ALM034356	CAL013942	
9/30/2004	H03-SG06	30	0	23	44	194	5	986				ISO-9141-2	FHJ742	ALM034356	CAL013942	
10/1/2004	H03-SG06	30	0	23	69	194	5	981	853	900	844	Will not communicate	FHJ742	ALM034356	CAL013942	
10/1/2004	H03-SG06	30	0	21	66	194	5	982				ISO-9141-2	FHJ742	ALM034356	CAL013942	
1/12/2005	H03-SG01	30	N/A	4	85	195	4	960	851	918	910	Vehicle will not commu	FHJ742	ALM034356	ALM060855	Flow meter # H04 SE02
1/12/2005	H03-SG01	30	N/A	4	81	195	4	962	853	920	891	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/12/2005	H03-SG01	30	N/A	4	76	195	4	962	856	923	916	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	Flow meter SN: K04 SE
1/12/2005	H03-SG01	30	N/A	4	84	196	4	962	852	915	886	ISO-9141-2	FHJ742	ALM034356	ALM060855	Flow meter SN: K04 SE
1/13/2005	H03-SG01	30	N/A	0	59	195	4	980	874	936	907	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/13/2005	H03-SG01	30	N/A	-1	58	195	4	982	878	936	917	ISO-9141-2	FHJ742	ALM034356	ALM060855	Flow meter SN: K04-SE0
1/13/2005	H03-SG01	30	N/A	2	58	195	4	976	872	939	934	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/13/2005	H03-SG01	30	N/A	-1	52	195	4	983	878	937	908	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
		30	N/A	-6	41	192	6	1001	903							No run Semtech down.
1/14/2005	H03-SG01	30	N/A	-3	31	195	4	987	893	756	753	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/14/2005	H03-SG01	30	N/A	-11	56	195	4	999	896	959	954	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/15/2005	H03-SG01	1996	N/A	57 F	15	195	4	1001	896	561	567		FHJ742	ALM034356	ALM060855	
1/15/2005	H03-SG01	1986	N/A	-6	55	195	4	1004	898	972	966	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/15/2005	H03-SG01	1985	N/A	56.5 F	17	195	4	1001	898	381	566	ISO-9141-2	FHJ742	ALM034356	ALM060855	P2 - Faults 1
1/15/2005	H03-SG01	2000	N/A	57.7 F	15	195	4	1002	895	964	900	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/17/2005	H03-SG05	30	N/A	2	33	193	6	1008	889	957	933	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/17/2005	H03-SG01	30	N/A	1	33	195	4	1001	895	957	905	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/17/2005	H03-SG01	30	N/A	-2	45	195	4	1001	892	963	958	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/17/2005	H03-SG01	30	N/A	0	34	195	4	1002	896	964	919	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/17/2005	H03-SG01	30	N/A	1	30	195	4	1002	897	960	880	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/18/2005	H03-SG05	30	N/A	3	40	193	6	1003	855	906	883	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/18/2005	H03-SG05	30	N/A	3	40	193	6	1003	885	906	883	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/18/2005	H03-SG05	30	N/A	0	45	193	6	1004	884	963	941	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/18/2005	H03-SG05	30	N/A	5	44	193	6	998	879	927	886	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/18/2005	H03-SG05	30	N/A	2	40	193	6	1003	884	907	876	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/19/2005	H03-SG05	30	N/A	11	54	193	6	995	875	924	844	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	OBDII Protocol - V1 wo
1/19/2005	H03-SG05	30	N/A	10	56	194	6	993	874	916	879	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/19/2005	H03-SG05	30	N/A	5	66	193	6	993	874	932	924	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	
1/19/2005	H03-SG05	30	N/A	7	63	193	6	994	874	921	852	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/19/2005	H03-SG05	30	N/A	10	65	193	6	993	872	913	841	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/20/2005	H03-SG05	30	N/A	12	67	193	6	983	863	912	853	ISO-9141-2	FHJ742	ALM034356	ALM060855	
1/20/2005	H03-SG05	30	N/A	19	16	193	6	981	860	888	861	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/20/2005	H03-SG05	30	N/A	14	53	194	6	982	848	851	847	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/20/2005	H03-SG05	30	N/A	6	75	193	6	983	864	923	935	SAE-J1850 VPW	FHJ742	ALM034356	ALM060855	

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SEMTECH System Information (BK1)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
1/21/2005	H03-SG05	30	N/A	5	69	193	6	983	863	892	833	Vehicle will not commu	FHJ742	ALM034356		
1/21/2005	H03-SG05	30	N/A	5	72	193	6	987	869	918	916	SAE-J1850 VPW	FHJ742	ALM034356		OBD II Protocol - V1 no
1/21/2005	H03-SG05	30	N/A	6	66	193	6	981	863	864	827	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/21/2005	H03-SG05	30	N/A	6	63	193	6	986	869	886	827	Vehicle will not commu	FHJ742	ALM034356		
1/22/2005	H03-SG05	30	N/A	-4	35	193	5	999	882	924	895					
1/21/2005	H03-SG05	30	N/A	-5	48	193	5	1001	884	890	830		FHJ742	ALM034356		OBD II Protocol - V1 no
1/22/2005	H03-SG05	30	N/A	-7	41	193	5	999	883	924	895	SAE-J1850 VPW	FHJ742	ALM034356		OBD II Protocol - V1 no
1/22/2005	H03-SG05	30	N/A	-5	40	193	5	996				Vehicle will not commu	FHJ742	ALM034356		
1/25/2005	H03-SG05	30	N/A	8	53	193	6	980	861	918	908	Vehicle will not commu	FHJ742	ALM034356		Semtech - changed file
1/25/2005	H03-SG05	30	N/A	8	54	193	6	980	860	915	908	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/25/2005	H03-SG05	30	N/A	15	39	193	6	976	855	883	826	Vehicle will not commu	FHJ742	ALM034356		
1/25/2005	H03-SG05	30	N/A	14	41	193	6	977	856	877	831	Vehicle will not commu	FHJ742	ALM034356		
1/26/2005	H03-SG05	30	N/A	8	60	193	6	990	870	885	867	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/26/2005	H03-SG05	30	N/A	8	53	193	5	992	872	908	836	Vehicle will not commu	FHJ742	ALM034356		
1/27/2005	H03-SG05	30	N/A	5	53	193	6	999	879	934	829	Vehicle will not commu	ALM035591	ALM034356		
1/26/2005	H03-SG05	30	N/A	3	76	193	5	988	870	934	922	Vehicle will not commu	FHJ742	ALM034356	ALM060855	
1/26/2005	H03-SG05	30	N/A	8	55	193	6	992	871	873	857	Vehicle will not commu	FHJ742	ALM034356		
1/27/2005	H03-SG05	30	N/A	5	62	193	6	1000	880	893	821	Vehicle will not commu	ALM035591	ALM034356		
1/27/2005	H03-SG05	30	N/A	2	66	193	6	1000	879	942	935	Vehicle will not commu	FHJ742	ALM034356		
1/27/2005	H03-SG05	30	N/A	5	61	193	6	1000	879	892	825	Vehicle will not commu	ALM035591	ALM034356		
1/28/2005	H03-SG05	30	N/A	5	44	193	6	996	875	879	862	Vehicle will not commu	ALM035591	ALM034356		
1/29/2005	H03-SG05	30	N/A	4	70	193	6	992	871	849	812	Vehicle will not commu	ALM035591	ALM034356		
1/28/2005	H03-SG05	30	N/A	4		193	6	995	875	894	845	Vehicle will not commu	ALM035591	ALM034356		
1/28/2005	H03-SG05	30	N/A	6	42	193	6	992	872	931	884	Vehicle will not commu	ALM035591	ALM034356		
1/29/2005	H03-SG05	30	N/A	2	78	193	5	991	871	933	934	Vehicle will not commu	ALM035591	ALM034356		
1/29/2005	H03-SG05	30	N/A	7	57	193	6	991	869	828	811	Vehicle will not commu	ALM035591	ALM034356		
1/29/2005	H03-SG05	30	N/A	4	74	193	6	991	871	879	857	Vehicle will not commu	ALM035591	ALM034356		
2/1/2005	H03-SG01	30	N/A	5	69	193	6	998	878	928	922	ISO-9141-2	ALM035591	ALM034356		
1/31/2005	H03-SG05	30	N/A	7	66	193	6	995	874	912	881	Vehicle will not commu	ALM035591	ALM034356		
1/31/2005	H03-SG05	30	N/A	5	71	193	6	996	875	905	854	ISO-9141-2	ALM035591	ALM034356		
2/1/2005	H03-SG05	30	N/A	7	52	193	6	997	876	924	897	Vehicle will not commu	ALM035591	ALM034356		
2/1/2005	H03-SG05	30	N/A	5	63	194	6	998	876	933	894	Vehicle will not commu	ALM035591	ALM034356		
2/2/2005	H03-SG05	30	N/A	4	64	193	6	997	878	897	885	Vehicle will not commu	ALM035591	ALM034356		
2/2/2005	H03-SG05	30	N/A	4	63	193	6	997	877	898	883	Vehicle will not commu	ALM035591	ALM034356		
2/2/2005	H03-SG05	30	N/A	5	44	193	6	996	876	929	865	Vehicle will not commu	ALM035591	ALM034356		
2/3/2005	H03-SG05	30	N/A	11	47	193	6	998	877	928	893	SAE-J1850 PWM	ALM035591	ALM034356		OBD II Protocol - V1 no
2/3/2005	H03-SG05	30	N/A	10	48	193	6	999	877	928	892	SAE-J1850 VPW	ALM035591	ALM034356		
2/3/2005	H03-SG05	30	N/A	1	65	193	5	999	879	936	931	SAE-J1850 PWM	ALM035591	ALM034356		
2/3/2005	H03-SG05	30	N/A	15	39	193	6	996	874	926	909	Vehicle will not commu	ALM035591	ALM034356		
2/4/2005	H03-SG05	30	N/A	10	53	193	6	997	878	892	891	ISO-9141-2	ALM035591	ALM034356		OBD II Protocol - V1 no
2/4/2005	H03-SG05	30	N/A	11	53	193	6	996	878	893	894	Vehicle will not commu	ALM035591	ALM034356		
2/4/2005	H03-SG05	30	N/A	11	53	193	6	996	878	893	894	ISO-9141-2	ALM035591	ALM034356		OBD II Protocol - V1 no
2/4/2005	H03-SG05	30	N/A	17	32	193	6	994	872	910	877	Vehicle will not commu	ALM035591	ALM034356		
2/5/2005	H03-SG05	30	N/A	12	44	193	6	991	871	918	857	SAE-J1850 PWM	ALM035591	ALM034356		OBD II Protocol - V1 no
2/5/2005	H03-SG05	30	N/A	12	44	193	6	991	871	918	857		ALM035591	ALM034356		

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SEMTECH System Information (BK1)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
2/5/2005	H03-SG05	30	N/A	13	42	193	6	991	871	913	852	Vehicle will not commu	ALM035591	ALM034356		OBD II Protocol - V1 no
2/7/2005	H03-SG05	30	N/A	1	78	193	6	990	870	914	853	Vehicle will not commu	ALM035591	ALM034356		
2/7/2005	H03-SG05	30	N/A	0	76	193	5	991	872	907	849	Vehicle will not commu	ALM035591	ALM034356		
2/7/2005	H03-SG05	30	N/A	2	78	193	5	989	870	912	858		ALM035591	ALM034356		
2/7/2005	H03-SG05	30	N/A	0	74	193	5	990	872	900	864	Vehicle will not commu	ALM035591	ALM034356		
2/8/2005	H03-SG05	30	N/A	-2	66	193	5	993	875	930	923		ALM035591	ALM034356		Void test traction contro
2/8/2005	H03-SG05	30	N/A	-2	73	193	5	993	875	918	893	ISO-9141-2	ALM035591	ALM034356		
2/8/2005	H03-SG05	30	N/A	-3	78	193	5	992	875	930	924	SAE-J1850 VPW	ALM035591	ALM034356		
2/8/2005	H03-SG05	30	N/A	-1	79	193	6	990	873	902	847	Vehicle will not commu	ALM035591	ALM034356		
2/8/2005	H03-SG05	30	N/A	0	76	193	5	989	872	895	847		ALM035591	ALM034356		
2/8/2005	H03-SG05	30	N/A	-1	73	193	5	991	873	916	860	ISO-9141-2	ALM035591	ALM034356		
2/9/2005	H03-SG05	30	N/A	2	47	193	5	992	873	924	858	Vehicle will not commu	ALM035591	ALM034356		
2/9/2005	H03-SG05	30	N/A	0	49	193	6	993	874	900	857	Vehicle will not commu	ALM035591	ALM034356		
2/9/2005	H03-SG05	30	N/A	-3	57	193	5	993	877	932	940	SAE-J1850 PWM	ALM035591	ALM034356		
2/9/2005	H03-SG05	30	N/A	-1	51	193	5	994	877	918	865	ISO-9141-2	ALM035591	ALM034356		
2/9/2005	H03-SG05	30	N/A	-1	51	193	5	994	876	919	868	SAE-J1850 VPW	ALM035591	ALM034356		
2/10/2005	H03-SG05	30	N/A	0	59	193	5	998	880	921	868	Vehicle will not commu	ALM035591	ALM034356		
2/10/2005	H03-SG05	30	N/A	-5	72	193	5	998	880	935	931	Vehicle will not commu	ALM035591	ALM034356		
2/10/2005	H03-SG05	30	N/A	6	48	193	6	997	875	838	802	Vehicle will not commu	ALM035591	ALM034356		
2/10/2005	H03-SG05	30	N/A	3	53	193	5	999	880	911	841	Vehicle will not commu	ALM035591	ALM034356		
2/11/2005	H03-SG05	30	N/A	5	58	193	5	996	875	910	852	SAE-J1850 VPW	ALM035591	ALM034356		OBD II Protocol - V1 no
2/11/2005	H03-SG05	30	N/A	7	55	193	6	996	875	886	828	Vehicle will not commu	ALM035591	ALM034356		
2/11/2005	H03-SG05	30	N/A	0	72	193	5	995	876	931	924	SAE-J1850 VPW	ALM035591	ALM034356		OBD II Protocol - V1 no
2/12/2005	H03-SG05	30	N/A	7	71	193	6	984	865	846	822		ALM035591	ALM034356		
2/12/2005	H03-SG05	30	N/A	9	66	193	6	984	864	823	800	Vehicle will not commu	ALM035591	ALM034356		
2/12/2005	H03-SG05	30	N/A	11	75	193	6	982	861	821	792	ISO-9141-2	ALM035591	ALM034356		
2/12/2005	H03-SG05	30	N/A	6	73	193	6	984	864	936	912	ISO-9141-2	ALM035591	ALM034356		OBD II Protocol - V1 co
2/15/2005	H03-SG05	30	N/A	8	76	193	6	979	859	914	908	ISO-9141-2	ALM035591	ALM034356		
2/15/2005	H03-SG05	30	N/A	9	73	193	6	980	859	903	881	Vehicle will not commu	ALM035591	ALM034356		
2/15/2005	H03-SG05	30	N/A	11	65	193	6	981	860	894	877	Vehicle will not commu	ALM035591	ALM034356		
2/15/2005	H03-SG05	30	N/A	13	50	193	6	981	860	852	883	Vehicle will not commu	ALM035591	ALM034356		
2/16/2005	H03-SG05	30	N/A	4	65	193	5	995	874	930	927	SAE-J1850 VPW	ALM035591	ALM034356		
2/16/2005	H03-SG05	30	N/A	6	56	193	5	995	874	916	893	SAE-J1850 VPW	ALM035591	ALM034356		
2/16/2005	H03-SG05	30	N/A	6	52	193	6	996	874	911	888	Vehicle will not commu	ALM035591	ALM034356		
2/17/2005	H03-SG05	30	N/A	1	70	193	5	996	876	933	930	SAE-J1850 VPW	ALM035591	ALM034356		
2/17/2005	H03-SG05	30	N/A	5	53	193	5	996	876	882	888	SAE-J1850 VPW	ALM035591	ALM034356		
2/17/2005	H03-SG05	30	N/A	10	39	193	6	993	873	870	837	ISO-9141-2	ALM035591	ALM034356		
2/17/2005	H03-SG05	30	N/A	7	40	193	6	996	875	882	856	SAE-J1850 VPW	ALM035591	ALM034356		
2/17/2005	H03-SG05	30	N/A	12	33	194	6	993	870	881	834	Vehicle will not commu	ALM035591	ALM034356		
2/18/2005	H03-SG05	30	N/A	10	32	193	6	996	874	808	853	Vehicle will not commu	ALM035591	ALM034356		
2/18/2005	H03-SG05	30	N/A	0	63	193	5	997	877	931	929	SAE-J1850 VPW	ALM035591	ALM034356		
2/18/2005	H03-SG05	30	N/A	7	38	193	6	997	875	864	879	Vehicle will not commu	ALM035591	ALM034356		
2/18/2005	H03-SG05	30	N/A	5	42	193	6	997	876	875	867	ISO-9141-2	ALM035591	ALM034356		
2/18/2005	H03-SG05	30	N/A	2	52	193	5	998	878	885	884	SAE-J1850 PWM	ALM035591	ALM034356		
2/19/2005	H03-SG05	30	N/A	8	76	193	6	987	866	858	836	Vehicle will not commu	ALM035591	ALM034356		

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SEMTECH System Information (BK1)												OBDII		Cylinder Numbers	
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #
2/19/2005	H03-SG05	30	N/A	8	75	193	6	991	870	925	918	SAE-J1850 PWM	ALM035591	ALM034356	
2/19/2005	H03-SG05	30	N/A	8	73	193	6	991	870	888	863	Vehicle will not commu	ALM035591	ALM034356	
2/19/2005	H03-SG05	30	N/A	9	73	193	6	989	869	875	848	Vehicle will not commu	ALM035591	ALM034356	
2/21/2005	H03-SG05	30	N/A	6	69	193	6	989	867	840	812	Vehicle will not commu	ALM035591	ALM034356	
2/21/2005	H03-SG05	30	N/A	4	77	193	5	988	867	912	909	Vehicle will not commu	ALM035591	ALM034356	
2/21/2005	H03-SG05	30	N/A	4	75	193	6	989	869	921	901	Vehicle will not commu	ALM035591	ALM034356	
2/22/2005	H03-SG05	30	N/A	7	71	193	6	994	875	931	927	SAE-J1850 PWM	ALM035591	ALM034356	
3/12/2005	H03-SG05	30	N/A	13	38	193	6	969	847	892	889	Vehicle will not commu	ALM010707	ALM034356	
3/18/2005	H03-SG05	30	N/A	12	37	193	6	976	854	905	903	Vehicle will not commu	ALM010707	ALM034356	
3/25/2005	H03-SG05	30	N/A	20	35	193	6	983	862	915	912	SAE-J1850 VPW	ALM010707	ALM034356	ALM060855
2/23/2005	H03-SG05	30	N/A	9	47	193	6	994	873	930	927	SAE-J1850 VPW	ALM035591	ALM034356	
2/23/2005	H03-SG05	30	N/A	9	48	193	6	993	870	921	883		ALM035591	ALM034356	
2/23/2005	H03-SG05	30	N/A	9	50	193	6	994	872	927	881	Vehicle will not commu	ALM035591	ALM034356	
3/11/2005	H03-SG05	30	N/A	6	42	193	6	985	865	917	913	ISO-9141-2	ALM010707	ALM034356	
2/24/2005	H03-SG05	30	N/A	8	60	193	6	991	869	880	856	Vehicle will not commu	ALM035591	ALM034356	
2/24/2005	H03-SG05	30	N/A	6	66	193	6	990	869	925	921	Vehicle will not commu	ALM035591	ALM034356	
2/25/2005	H03-SG05	30	N/A	10	44	193	6	989	868	876	847	ISO-9141-2	ALM035591	ALM034356	
2/25/2005	H03-SG05	30	N/A	10	44	194	6	988	867	885	851	Vehicle will not commu	ALM035591	ALM034356	
2/25/2005	H03-SG05	30	N/A	13	37	193	6	989	866	888	850	SAE-J1850 VPW	ALM035591	ALM034356	
3/21/2005	H03-SG05	30	N/A	12	44	192	6	981	860	810	933		ALM010707	ALM034356	
2/26/2005	H03-SG05	30	N/A	9	50	193	6	991	869	917	864	Vehicle will not commu	ALM035591	ALM034356	
2/26/2005	H03-SG05	30	N/A	10	50	193	6	990	868	860	824	ISO-9141-2	ALM035591	ALM034356	
2/26/2005	H03-SG05	30	N/A	6	58	193	5	991	870	925	925	Vehicle will not commu	ALM035591	ALM034356	
2/28/2005	H03-SG05	30	N/A	2	52	193	5	985	865	910	847	Vehicle will not commu	ALM035591	ALM034356	
2/28/2005	H03-SG05	30	N/A	3	52	194	6	984	864	921	947	SAE-J1850 PWM	ALM035591	ALM034356	
2/28/2005	H03-SG05	30	N/A	1	58	193	5	985	865	914	848	SAE-J1850 PWM	ALM035591	ALM034356	
3/26/2005	H03-SG05	30	N/A	5	77	193	5	989	867	918	909	Vehicle will not commu	ALM010707	ALM038949	
1/1/2005	H03-SG05	30	N/A	-2	55	193	5	990	871	927	923	ISO-9141-2	ALM035591	ALM034356	
1/1/2005	H03-SG05	30	N/A	0	47	193	5	991	872	913	886				Information pulled off se
1/1/2005	H03-SG05	30	N/A	2	37	193	5	991	871	903	851	Vehicle will not commu	ALM035591	ALM034356	
3/31/2005	H03-SG05	30	N/A	11	58	194	6	986	836	871	875	ISO 9141	ALM010707	ALM038949	
3/2/2005	H03-SG05	30	N/A	2	62	193	5	987	868	920	918	Vehicle will not commu	ALM035591	ALM034356	
3/30/2005	H03-SG05	30	N/A	18	48	193	5	963	843	893	913	J1850/VPW	ALM010707	ALM034949	
3/3/2005	H03-SG05	30	N/A	7	51	193	6	987	865	916	912	Vehicle will not commu	ALM035591	ALM034356	
3/4/2005	H03-SG05	30	N/A	13	65	193	6	984	862	862	816	Vehicle will not commu	ALM035591	ALM034356	
3/4/2005	H03-SG05	30	N/A	8	75	193	6	984	863	873	854	Vehicle will not commu	ALM035591	ALM034356	
3/4/2005	H03-SG05	30	N/A	5	79	193	5	984	863	910	906	ISO-9141-2	ALM035591	ALM034356	
3/5/2005	H03-SG05	2498	N/A	6	62	193	6	994	872	892	872	N/A			
3/8/2005	H03-SG05	2498	N/A	11	31	193	5	985	865	866	833		ALM035591	ALM034356	ALM060855
3/5/2005	H03-SG05	2498	N/A	5	66	194	6	1019	818	834	860	SAE-J1850 PWM	ALM035591	ALM034356	I04SE07_Phase 1 of ru
3/5/2005	H03-SG05	2490	N/A	9	54	193	6	995	873	893	834	Vehicle will not commu	ALM035591	ALM034356	

Page 7 (Installation for Dyne Sampling)																
SEMTECH System Information (BK1)																
OBDII																
Cylinder Numbers																
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
3/7/2005	H03-SG05	30	N/A	11	55	193	6	976	855	873	851	SAE-J1850 VPW	ALM035591	ALM034356		
3/7/2005	H03-SG05	30	N/A	12	52	193	6	976	854	900	895	ISO-9141-2	ALM035591	ALM034356		
3/7/2005	H03-SG05	30	N/A	11	53	193	5	978	856	903	881	Vehicle will not commu	ALM035591	ALM034356		
3/7/2005	H03-SG05	30	N/A	11	48	193	6	977	857	901	895	Vehicle will not commu	ALM035591	ALM034356		
3/7/2005	H03-SG05	30	N/A	11	41	193	6	977	856	901	890	Vehicle will not commu	ALM035591	ALM034356		
3/8/2005	H03-SG05	30	N/A	4	44	193	6	986	866	878	862					
3/8/2005	H03-SG05	2498	N/A	8	40	193	6	986	865	872	848		ALM035591	ALM034356	ALM060855	
3/8/2005	H03-SG05	30	N/A	3	55	193	5	986	866	925	919	ISO-9141-2	ALM035591	ALM034356		
3/9/2005	H03-SG05	30	N/A	3	53	193	5	988	867	928	917	SAE-J1850 VPW	ALM035591	ALM034356		
3/10/2005	H03-SG05	30	N/A	14	38	193	6	979	856	844	818	Vehicle will not commu	ALM035591	ALM034356		
3/9/2005	H03-SG05	30	N/A	4	45	194	5	990	868	871	843	Vehicle will not commu	ALM035591	ALM034356		
3/9/2005	H03-SG05	30	N/A	3	51	193	6	989	868	883	844	ISO-9141-2	ALM035591	ALM034356		
4/5/2005	H03-SG05	30	N/A	21	62	193	6	974	852	902	848	ISO-9141-2	ALM010707	ALM038949		
4/6/2005	H03-SG05	30	N/A	18	70	193	6	978	856	870	852	ISO-9141-2	ALM010707	ALM038949		
4/6/2005	H03-SG05	30	N/A	20	61	193	6	979	857	846	856	ISO-9141-2	ALM010707	ALM038949		
4/5/2005	H03-SG05	30	N/A	22	54	193	6	975	853	883	861	ISO-9141-2	ALM010707	ALM038949		
4/5/2005	H03-SG05	30	N/A	20	66	193	6	974	852	874	848	SAE-J1850 VPW	ALM010707	ALM038949		
4/2/2005	H03-SG05	30	N/A	21	38	193	6	978	855	898	847	ISO-9141-2	ALM010707	ALM038949		
4/4/2005	H03-SG05	30	N/A	20	40	193	6	978	855	907	847	SAE-J1850 VPW	ALM010707	ALM038949		
4/4/2005	H03-SG05	30	N/A	18	40	194	6	978	854	912	908	SAE-J1850 VPW	ALM010707	ALM038949		
3/15/2005	H03-SG05	30	N/A	7	35	194	5	993	871	926	925	Vehicle will not commu	ALM010707	ALM034356		
3/10/2005	H03-SG05	30	N/A	12	46	193	6	979	858	871	844	Vehicle will not commu	ALM035591	ALM034356		
3/10/2005	H03-SG05	30	N/A	9	54	194	5	979	858	880	908	Vehicle will not commu	ALM035591	ALM034356		
3/11/2005	H03-SG05	30	N/A	7	38	193	6	985	864	868	835	Vehicle will not commu	ALM010707	ALM034356		
3/11/2005	H03-SG05	30	N/A	13	33	193	5	980	859	855	827	Vehicle will not commu	ALM010707	ALM034356		
3/11/2005	H03-SG05	30	N/A	15	27	193	5	978	858	840	821	Vehicle will not commu	ALM010707	ALM034356		
3/11/2005	H03-SG05	30	N/A	8	38	193	6	984	863	855	819	Vehicle will not commu	ALM010707	ALM034356		
3/12/2005	H03-SG05	30	N/A	9	56	194	6	969	850	930	895	ISO-9141-2	ALM010707	ALM034356		
3/12/2005	H03-SG05	30	N/A	20	24	194	6	970	848	897	867	Vehicle will not commu	ALM010707	ALM034356		
3/12/2005	H03-SG05	30	N/A	16	32	193	6	969	848	900	852	Vehicle will not commu	ALM010707	ALM034356		
3/14/2005	H03-SG05	30	N/A	4	57	194	5	991	871	926	922	Vehicle will not commu	ALM010707	ALM034356		
3/14/2005	H03-SG05	30	N/A	7	44	193	6	992	871	905	877	Vehicle will not commu	ALM010707	ALM034356		
3/14/2005	H03-SG05	30	N/A	11	30	193	6	990	868	885	867	Vehicle will not commu	ALM010707	ALM034356		
3/15/2005	H03-SG05	30	N/A	10	28	193	6	993	871	881	883	Vehicle will not commu	ALM010707	ALM034356		
3/15/2005	H03-SG05	30	N/A	14	24	193	6	991	867	887	895	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	9	62	193	6	991	869	882	849	Vehicle will not commu	ALM010707	ALM034356		
3/15/2005	H03-SG05	30	N/A	12	28	193	6	992	870	883	886	Vehicle will not commu	ALM010707	ALM034356		
3/15/2005	H03-SG05	30	N/A	13	26	194	6	992	869	905	900		ALM010707	ALM034356		
3/15/2005	H03-SG05	30	N/A	14	25	193	6	990	867	861	885	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	16	25	193	6	986	864	787	802	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	6	71	193	5	991	869	933	920	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	15	32	193	6	987	864	790	792	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	13	42	194	6	988	866	855	818	Vehicle will not commu	ALM010707	ALM034356		
3/16/2005	H03-SG05	30	N/A	11	57	193	6	990	867	895	855	Vehicle will not commu	ALM010707	ALM034356		
3/17/2005	H03-SG05	30	N/A	13	34	193	6	982	862	784	798	Vehicle will not commu	ALM010707	ALM034356		

Page 7 (Installation for Dyne Sampling)																
SEMTECH System Information (BK1)													OBDII		Cylinder Numbers	
Date	PEM Serial #	FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp (C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #	Comments
3/17/2005	H03-SG05	30	N/A	15	30	193	6	980	860	877	910	Vehicle will not commu	ALM010707	ALM034356		
3/17/2005	H03-SG05	30	N/A	11	44	193	6	983	861	875	874	Vehicle will not commu	ALM010707	ALM034356		
3/30/2005	H03-SG05	36	N/A	19	48	193	6	964	843	858	836	Vehicle will not commu	ALM010707	ALM038949		
3/17/2005	H03-SG05	30	N/A	17	23	193	6	978	856	842	847	Vehicle will not commu	ALM010707	ALM034356		
3/17/2005	H03-SG05	30	N/A	9	53	193	5	983	862	923	914	Vehicle will not commu	ALM010707	ALM034356		
3/17/2005	H03-SG05	30	N/A	16	26	193	6	978	858	870	857	Vehicle will not commu	ALM010707	ALM034356		
3/18/2005	H03-SG05	30	N/A	13	33	193	6	975	854	874	846	Vehicle will not commu	ALM010707	ALM034356		
3/18/2005	H03-SG05	30	N/A	17	32	193	6	973	852	887	848	Vehicle will not commu	ALM010707	ALM034356		
3/18/2005	H03-SG05	30	N/A	19	27	193	6	973	851	894	818	Vehicle will not commu	ALM010707	ALM034356		
3/18/2005	H03-SG05	30	N/A	14	31	193	6	975	853	870	839	Vehicle will not commu	ALM010707	ALM034356		
3/18/2005	H03-SG05	30	N/A	18	30	193	6	973	851	882	836	Vehicle will not commu	ALM010707	ALM034356		
3/19/2005	H03-SG05	30	N/A	10	35	193	6	987	865	899	915	Vehicle will not commu	ALM010707	ALM034356		
3/19/2005	H03-SG05	30	N/A	10	38	193	6	987	865	816	788	Vehicle will not commu	ALM010707	ALM034356		
3/19/2005	H03-SG05	30	N/A	6	46	193	5	987	866	842	829	Vehicle will not commu	ALM010707	ALM034356		
3/19/2005	H03-SG05	30	N/A	7	44	194	5	988	866	842	805	Vehicle will not commu	ALM010707	ALM034356		
3/19/2005	H03-SG05	30	N/A	5	50	194	5	986	866	882	882	Vehicle will not commu	ALM010707	ALM034356		
3/21/2005	H03-SG05	30	N/A	13	43	193	6	982	860	865	883	Vehicle will not commu	ALM010707	ALM034356		
3/21/2005	H03-SG05	30	N/A	12	57	193	6	979	857	869	884	Vehicle will not commu	ALM010707	ALM034356		
3/21/2005	H03-SG05	30	N/A	13	48	194	6	979	857	870	875	Vehicle will not commu	ALM010707	ALM034356		
3/21/2005	H03-SG05	30	N/A	14	40	194	6	980	858	854	880	Vehicle will not commu	ALM010707	ALM034356		
3/21/2005	H03-SG05	30	N/A	12	42	193	6	982	860	880	891	Vehicle will not commu	ALM010707	ALM034356		
3/22/2005	H03-SG05	30	N/A	5	84	193	6	979	858	884	877	Vehicle will not commu	ALM010707	ALM034356		
3/22/2005	H03-SG05	30	N/A	4	84	193	5	979	857	902	866	Vehicle will not commu	ALM010707	ALM034356		
3/22/2005	H03-SG05	30	N/A	5	80	193	6	979	858	876	866	Vehicle will not commu	ALM010707	ALM034356		
4/8/2005	H03-SG05	30	N/A	21	29	193	6	984	861	883	866	Vehicle will not commu	ALM010707	ALM038949		
3/23/2005	H03-SG05	30	N/A	10	60	194	6	983	861	885	867	Vehicle will not commu	ALM010707	ALM034356		
3/28/2005	H03-SG05	30	N/A	10	56	193	6	983	862	860	857	Vehicle will not commu	ALM010707	ALM034356		
		30		5	74	193	5	984	863	916	915		ALM010707	ALM034356		On front of folder.
3/23/2005	H03-SG05	30	N/A	9	65	193	6	984	863	911	876	Vehicle will not commu	ALM010707	ALM034356		
3/23/2005	H03-SG05	30	N/A	5	72	193	5	985	864	885	880	Vehicle will not commu	ALM010707	ALM034356		
3/23/2005	H03-SG05	30	N/A	7	68	193	6	985	878	863	857	Vehicle will not commu	ALM010707	ALM034356		
3/24/2005	H03-SG05	2498	N/A	20.9	37.5	193	6	1011	862	917	911	SAE-J1850 VPW	ALM010707	ALM034356		
3/23/2005	H03-SG05	2498	N/A	21.5	33	194	6	1008	810	822	836		ALM010707	ALM034356		
3/23/2005	H03-SG05	2498	N/A	21.6	34.4	193	6	981	858	892	871		ALM010707	ALM034356		
3/25/2005	H03-SG05	30	N/A	7	83	194	6	984	862	850	867	Vehicle will not commu	ALM010707	ALM034356		
3/25/2005	H03-SG05	30	N/A	6	84	193	6	986	863	786	843	Vehicle will not commu	ALM010707	ALM034356		
3/25/2005	H03-SG05	30	N/A	6	82	193	6	985	863	825	841	Vehicle will not commu	ALM010707	ALM034356		
4/1/2005	H03-SG05	30	N/A	11	51	194	6	992	868	924	921	ISO-9141-2	ALM010707	ALM038949		
3/26/2005	H03-SG05	30	N/A	7	71	194	6	991	868	837	841	Vehicle will not commu	ALM010707	ALM038949		
3/26/2005	H03-SG05	30	N/A	6	75	193	6	990	868	880	910	Vehicle will not commu	ALM010707	ALM038949		
3/29/2005	H03-SG05	30	N/A	23	34	193	6	968	846	877	860	Vehicle will not commu	ALM010707	ALM038948		
3/28/2005	H03-SG05	30	N/A	14	45	194	6	978	856	905	851	Vehicle will not commu	ALM010707	ALM038949		
3/28/2005	H03-SG05	30	N/A	17	37	193	6	978	855	901	852	Vehicle will not commu	ALM010707	ALM038949		
3/28/2005	H03-SG05	30	N/A	23	22	194	6	976	852	876	866	Vehicle will not commu	ALM010707	ALM038949		
3/28/2005	H03-SG05	30	N/A	20	30	194	6	977	853	890	866	Vehicle will not commu	ALM010707	ALM038949		
3/29/2005	H03-SG05	30	N/A	19	45	193	6	970	847	867	841	ISO-9141-2	ALM010707	ALM038949		
3/29/2005	H03-SG05	30	N/A	17	48	193	6	970	847	907	899	Vehicle will not commu	ALM010707	ALM038949		
3/30/2005	H03-SG05	30	N/A	15	57	193	6	968	847	873	842	Vehicle will not commu	ALM010707	ALM038949		
3/30/2005	H03-SG05	30	N/A	16	58	193	6	966	846	859	839	Vehicle will not commu	ALM010707	ALM038949		
3/31/2005	H03-SG05	30	N/A	10	60	193	6	986	864	879	885	Vehicle will not commu	ALM010707	ALM038949		
4/2/2005	H03-SG05	30	N/A	10	42	193	6	992	868	928	924	Vehicle will not commu	ALM010707	ALM038949		

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ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

Did you drive differently with PEMS?	Did you feel PEMS caused you to drive differently?	Did PEMS alter your vehicle's performance?	Were you only person, or did you pick up passengers?	Passenger pickup & dropoff schedule
No	No	No	Only person in vehicle	

ERG Packet
Driveaway questionnaire

Did you drive differently with PEMS?	Did you feel PEMS caused you to drive differently?	Did PEMS alter your vehicle's performance?	Were you only person, or did you pick up passengers?	Passenger pickup & dropoff schedule
No	No	No	Only person	
No	No	No	Only person	Only person - was in rain storm
No	No	No	by myself but I picked up about 150 pounds of product at my warehouse	I picked up about 150 pounds of product at my warehouse and unloaded 100 still has 50 lbs of product in back seat
				No driveaway questionnaire available

ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

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ERG Packet
Driveaway questionnaire

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Date	Install Tech	PEM Serial #	SEMTECH System Information (ERG)										OBDII	Cylinder Numbers		
			FID Pres (psig)	Battery Voltage (V)	Ambient Temp (C)	RH (%)	FID Oven Temp(C)	Chiller Temp (C)	Amb. P	P1 (mbar)	P2 (mbar)	P3 (mbar)	OBDII protocol	Zero Gas #	Audit Gas #	Span Gas #
8/3/2004		H03-SG01	242	12	36.1	52	195	3	972	859	922	901	Will not communicate			
8/3/2004	Scott Sholar	H03-SG03	581	12.6	34.9	55	194	6	973	899	915	873	ISO-9141-2			
8/6/2004			926	12.5	27.3	31	187	6	987	882	935	888	Will not communicate			

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Engine Rebuild Info (BKI)																									Catalytic Converter (BKI)									
Make	Model	Year	Mileage	VIN	# of rebuilds	Date of Last Rebuild	Reasons for Last Rebuild	Non OEM mods	1. Original owner? (Y/N)	Mileage at purchase?	2. Cat been replaced? (Y/N)	# of cat replcmnts	Rattling?	How long?	Odo at 1st rplcmnt	Odo at 2nd rplcmnt	Odo at 3rd rplcmnt	4.Rattling reason for cat rplcmnt?	Chk eng light reason	Fail smog chk reason	Collision damage reason	Was cat under warranty?	Customer Paid	Non-dealer?										
Chevrolet	Cavalier	2001	57,049		N/A			N/A	N	32,000	N																							
Ford	F150	1979	53,493		0			No	N	125,000	N		N																					
Dodge	Van	1994	111,129		None		N/A	None	N	60,000	N		N																					
Isuzu	Trooper	1999	63,375		No	N/A	N/A	Engine	N	40,000	N		N		N/A	N/A	N/A																	
GMC	Yukon	2001	75,364		No		N/A	N/A	Y		N		N		N/A	N/A	N/A																	
Ford	Escort	1995	102,652		N/A			N/A	N	29,000	N		N																					
Ford	F250	1979	102,264		N/A			No	N	95,000	N/A																							
Subaru	Forester	1999																																
Toyota	RAV4	2000	68,202		N/A		N/A	No	Y		N		N																					
Dodge	Spirit	1990	92,692		N/A			N/A	N	20,000	N																							
Ford	F-150	2001	48,820.10		No			No	N	18,000	N		N																					
Honda	Civic	1996	131,483		N/A			N/A	Y		N		Y	2 weeks																				
Honda	Civic	1991	216,562.40		N/A			N/A	N	60-85,000	N		N																					
Mazda	626	2001	26,597				N/A	N/A	Y		N																							
Dodge	Caravan	1989	161,017		N/A		N/A	No	N	150,000	N		Y	Sometimes																				
Jeep	and Cherokee	1999	90,120		N/A			Not aware	N	60,000	N		N																					
Chevrolet	Corsica	1996	111,475		N/A			New water	N	33,000	N		N																					
Honda	Civic	2002	50,388		N/A		N/A	N/A	Y		N																							
GMC	Jimmy	1995	102,915		N/A			New radiat	Y		N		N																					
Oldsmobile	Eight Cutlas	1988	81,536		N/A			Not sure	N	70,000	N		N																					
Jeep	Cherokee	1998	131,875		N/A			N/A	N	118,000	N		Y	2 months																				
Chevrolet	Cavalier	1990	81,282		N/A			Engine rep	N	120,000	Y		N/A																					
Chrysler	300	1999	73,237		N/A			Not aware	N	48,000	N		N																					
Saturn	Sedan	2001	51,532		N/A			Not aware	Y		N		N																					
Buick	LeSabre	1998	45,444		N/A			N/A	N	8,000	N		N																					
Nissan	Frontier	2002	38,136		N/A			N/A	N	14,000	N		N																					
Nissan	Pickup	1987	138,629		No			New radiat	N	Not sure	N		Y	3 years																				
Saturn	SCI	1996	74,620						Y		N		N																					
Dodge	Caravan	1995	113,889.80		N/A			Not aware	N	130,000	N		N																					
Honda	CRV	1998																																
Mercury	Villager	1984	131,386		N/A		N/A	No	N	21,000	N		N																					
Jeep	Wrangler	1995	74,158		N/A			New air co	N	61,000	N		N																					
Pontiac	Grand Am	1989	116,806		1	2001	Not known	None know	N	72,000	N		Y	6 months																				
Lincoln	Continental	1989	170,427		No			Radiator, v	N	100,000	N		Y																					
Toyota	Solara	2001	40,081		N/A			No	Y		N		N																					
Dodge	Caravan	1997	90,061		N/A			No knowle	N	84,000	N		N																					
Chevrolet	Blazer	1995	100,757		No			Not aware	N	47,700	N		N																					
Chevrolet	S-10	2003	19,365		N/A			No	N	3,000	N		N																					
Ford	Mustang	1968	98,851.50		N/A			No	Y		N		N																					
Lincoln	Continental	1990	185,060		No		N/A	Water pump	Y		N		N																					
Honda	Civic	1999	76,475		No			No	Y		N		N																					
Honda	Accord	1997	79,575		N/A			No	Y		N		N																					
Honda	Accord	1989	209,974		No			New altern	Y				N																					
Honda	Accord	2000	77,943		No			No	Y		N		N																					
Ford	Taurus	2003	25,279		N/A			No	N	20,000	N		N																					
Chevrolet	Malibu	1998	99,428		No			No	Y		N		N																					
Honda	Odyssey	2004	21,015		No			New transr	Y		N		N																					
Nissan	Pathfinder	2003	12,463		No			No	Y		N		N																					
Chevrolet	Lumina	1998	70,731		No			New intake	N	59,000	N		N																					
Ford	Mustang	1999	39,497.60		No			Recall on s	Y		N		N																					
Hyundai	Tiburon	2000	89,219		No			New struts	Y		N		N																					
Cadillac	Seville	1991	70,493		No			No	N	5,000	N		N																					

Engine Rebuild Info (BK1)																									Catalytic Converter (BK1)									
Make	Model	Year	Mileage	VIN	# of rebuilds	Date of Last Rebuild	Reasons for Last Rebuild	Non OEM mods	1. Original owner? (Y/N)	Mileage at purchase?	2. Cat been replaced? (Y/N)	# of cat replcmnts	Rattling?	How long?	Odo at 1st rplcmnt	Odo at 2nd rplcmnt	Odo at 3rd rplcmnt	4.Rattling reason for cat rplcmnt?	Chk eng light reason	Fail smog chk reason	Collision damage reason	Was cat under warranty?	Customer Paid	Non-dealer?										
Honda	Odyssey	2000	68,967		0			12/3 engine	Y		N		N																					
Honda	Accord	2000	76,169		No			No	Y		N		N																					
Ford	F150	2000	61,031		0			No	Y		N		N																					
Ford	Ranger	1987	74,727		0			No	N	?	N		N																					
Honda	Accord	2001	56,182		0			Transmiss	Y		N		N																					
Nissan	Sentra	1994	127,045		0			No	N	14,000	N		N																					
Kia	Sportage	2003	20,651		0			No	Y		N		N																					
Chrysler	Lebaron	1983	43,270		0			Has only h	Y		N		Y																					
Volvo	850	1997	65,084		0			This week	Y		N		N																					
Mercury	Topaz	1994	9,942		0			Replaced v	Y		N		Y																					
Ford	Focus	2001	52,245		0			New brake	N	25,000	N		N																					
Plymouth	Voyager	1999	74,695		0			New radiat	N	20,000	N		N																					
Honda	Civic	1988	205,819		0			New muffler	N	Not sure	N		N																					
Buick	Regal	1996	139,853		0			New altern	Y		N		N																					
Cadillac	Cimneron	1986	17,601		No			No	N	98,000	N		N																					
Ford	Ranger	1999	92,917		0			No	N	10,000	N		Y																					
Pontiac	Bonneville	1985	236,759		0			No	N	Questional	N		N																					
Mercury	Topaz	1994	32,686		0			New brake	Y		N		N																					
Mercury	Sable	1996	110,402		0			None	N	Not sure -	N		Y																					
Jeep	Cherokee	1998	82,858		0			No	N	40,000	N		Y																					
Ford	Thunderbir	1995	135,032		0			Transmisio	N	24,000	N		N																					
Toyota	Camry	1997	129,415		0			No	Y		N		N																					
Toyota	Corolla	1996	148,857		0			None	N	Not known	N		N																					
Honda	Civic	2000	40,402		0			No	Y		N		N																					
Toyota	Camry	2000	47,771		0			No	Y		N		N																					
Toyota	Corolla	2000	70,118		0			No	N	35,000	N		N																					
Ford	F150	1984	172,311		0			None	N	Exempt	N		Y	2 yrs																				
Subaru	Outback	2000	75,802		0			Radiator	N	24,000	N		N																					
Chevrolet	Monte Car	1977	135,545		0			Catalytic c	N	119,000	Unsure		N									Y												
Hyundai	Santa Fe	2001	70,613		0			Check eng	Y		N		N																					
Mazda	Miata	2003	75,556		0			No	N	45,010	N		N																					
Chevrolet	Lumina	1999	42,977		0			No	Y		N		N																					
GMC	Safari	1993	283,221		1	5 yrs ago	Original ow	Transmiss	N	Not sure	N		N																					
GMC	Sonoma	2001	60,051		0			Not known	N	50,000	N		N																					
Saturn	SL1	1994	116,783		No			No	Y		N		N																					
Buick	Regal	1990	103,889		0			No	N	95,000	N		Y	Forever																				
GMC	Astro Van	1990	147,282		0			None	N	Not known	N		N																					
Chevrolet	Caprice	1986	303,803		0			New cataly	N	Not known	Y	1 - one year ago						Y					Y											
Chevrolet	S10	1985	30,295		Yes	Previous o	Not known	None since	N	75,000	N		Y	?																				
Ford	Econoline	1983	88,692		0			Transmiss	Y		N		N																					
Lincoln	Towncar	1989	82,496		0			None	Y		N		N																					
Ford	F150	1998	98,654		0			None	Y		N		N																					
Ford	Windstar	1999	102,212		0			None	Y		N		N																					
Chevrolet	C 1500	1994	99,209		0			None	N	2,000	N		N																					
Dodge	Stratus	1996	126,725		No			None	Y		N		N																					
Ford	Tempo	1986	60,022		0			New muffler	N	30,000	N		Y																					
Mazda	MX6	1988	222,707		0			Not known	N	191,000	N		N																					
Oldsmobile	98	1985	188,049		0			Water purr	Y		N		N																					
Lincoln	Towncar	1987	79,840		0			None	Y		N		N																					
Nissan	Maxima	1992	53,979		0			None	N	26,000	N		N																					
Pontiac	Bonneville	1994	125,218		0			None	N	25,000	N		N																					
Ford	F150	1990	7,116		0			Not known	N	105,000																								

					Engine Rebuild Info (BKI)					Catalytic Converter (BKI)														
Make	Model	Year	Mileage	VIN	# of rebuilds	Date of Last Rebuild	Reasons for Last Rebuild	Non OEM mods	1. Original owner? (Y/N)	Mileage at purchase?	2. Cat been replaced? (Y/N)	# of cat replcmnts	Rattling?	How long?	Odo at 1st rplcmnt	Odo at 2nd rplcmnt	Odo at 3rd rplcmnt	4.Rattling reason for cat rplcmnt?	Chk eng light reason	Fail smog chk reason	Collision damage reason	Was cat under warranty?	Customer Paid	Non-dealer?
Ford	Taurus	2002	72,460		0			None	Y		N		N											
Chrysler	Concorde	1994	169,010		No				N		N		N											
Oldsmobile	88	1994	128,005		0			March - O	N	50,000	N		N											
Chevrolet	C-10	1973	36,791		No				N		N		N											
Ford	Crown Vic	1985	265		No				Y		N													
Ford	Escort Wa	1992	12,768		0			Tire rods	N	92,000	N		N											
Honda	Civic	2000	35,757		0			None	Y		N		N											
Buick	Century	1997	86,421		0			None	N	21,000	N		N											
Pontiac	Grand Am	1992	140,183		Not known			Not known	N	35,000	N		N											
Dodge	Caravan	2005	18,148		0			None	Y		N		N											
Toyota	Corolla	1989	181,867		0			Timing belt	N	140,000	N		N											
Nissan	Sentra	1993	87,064		0			None	N	Not known	N		N											
Oldsmobile	Silhouette	2000	85,283		0			None	N	69,000	N		N											
Volkswagon	Cabriolet	1991	63,817		0			None	N	12,000	N		N											
Ford	Taurus	1987	33,594		0			None	N	100,000	N		N											
Ford	F150	1986	37,843		0			New exha	N	97,000	N		Y	1 yr										
Pontiac	6000	1988	133,718		0			None	N	37,000	N		N											
Oldsmobile	Achieva	1992	177,088		0			None	N	Not known	N		N											
Geo	Prism	1990	176,696		0			None	N	120,000	N		N											
Ford	Escort	1993	11,337		0			None	N	Not known	N		N											
Ford	Contour	1998	118,527		0			None	N	103,000	N		N											
Cadillac	Deville	1993	173,073		Yes	5,000 miles ago		New engin	N	45,000	N		N											
Honda	Accord	1987	190,529		0			None	N	186,000	N		N											
Infinite	I30	1998	49,997		0			None	N	30,000	N		N											
Plymouth	Grand Voy	1997	70,127		0			None	N	7,000	N		N											
Eagle	Talon	1994	109,739		0			None	N	108,500	N		N											
Ford	Ranger	1987	1,697		0			None	N	Not known	N		Y	Forever										
Volvo	240 GL	1983	184,215		0			New valve job			Y	once about 100,000 miles ago												

Engine Rebuild Info (BKI)																								Catalytic Converter (BKI)									
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Honda	Accord	2001	39,000		0			None	Y		N		N																				
Jeep	Cherokee	1995	104,260		0			None	Y		N		N																				
GMC	Jimmy	1990	130,255		0			None	N	36,000	N		N																				
MG	MG	1978	42,913		0			None	N	41-42,000	N		N																				
Oldsmobile	Silhouette	1997	111,018		0			None	N	60,000	N		N																				
Honda	Civic	2000	46,669		0			None	Y		N		N																				
GMC	Sierra	1995	171,362		0			None	Y		N		N																				
Dodge	Pickup	1968			0			None	Y		N		N																				
Honda	Civic	1997	75,775		0			None	N	72,000	N		N																				
Olds	Custom Cr	1984	8,975		0			None	y		N		N																				
Volvo	GL	1984	299,695		0			None	Y		N		N																				
Chevrolet	Caprice	1987	85,907		0			Within last	Y		Y																						
Dodge	Ram	1997	152,029		0			None	N	75,000	N		N																				
Ford	F150	1993	184,963		0			None	N	181,000	N		Y	May																			
Pontiac	Grand Prix	1989	92,817		1	4 yrs. ago		None	N	Not known	N		Y	4yrs																			
Buick	LeSabre	1990	59,404		0			None	N	21,000	N		N																				
Dodge	Stratus	1996	146,571		0			None	Y		N		N																				
Toyota	Camry	1997	127,406		0			Muffler rep	N	73,000	N		N																				
Dodge	Durango	1999	92,673		0			None	Y		N		?																				
Honda	Civic	1998	115,362		0			None	N	Not known	N		N																				
Honda	Civic	2001	49,723		0			None	N	34,000	N		N																				
Honda	Accord	1992	75,574		0			None	N	42,000	N		N																				
Pontiac	Grand Am	1994	101,517		0			None	Y		N		N																				
Chevrolet	Malibu	1999	76,611		0			None	N	74,000	N		N																				
Oldsmobile	Silhouette	2002	40,260		0			None	Y		N		N																				
Mercedes	280 SE	1973	81,517		0			None	N	95,000	N/A		N																				
Chevrolet	G20	1993	121,435		0			None	N	19,000	Y	1											Y										
Ford	F150	1997	115,366		0			None	N	46,000	N		N																				
Chevrolet	Venture	2003	24,907		No			N/A	Y		N		N																				
Plymouth	Voyager	1991	158,762		No			N/A	Y		N		N																				
Dodge	Avenger	1996	124,720		No			N/A	Y		N																						
Toyota	Corolla	1989	80,740		No			N/A	Y		N																						
Nissan	Sentra	1997	154,236		0			None	N	50,000	N		N																				
Toyota	Camry	1990	202,788		0			None	Y		Y		N																				
Nissan	Altima	2000	95,296		0			None	Y		N		N																				
Plymouth	Sundance	1989	144,664		0			None	N	46,000	N		Y	1 yr.																			
Toyota	Camry	1998	127,647		0			None	Y		N		N																				
Ford	Winstar	2001	37,914		0			None	Y		N		N																				
Toyota	Avalon	1996	108,173		0			None	Y		N		N																				
Nissan	Maxima	1997	111,644		0			None	N	101,000	N		N																				
Toyota	Camry	1999	60,271		0			None	Y		N		N																				
Ford	Taurus	1998	77,795		0			None	Y		N		N																				
Jeep	Wrangler	1997	94,822		0			None	N	94,000	N		N																				
Kia	Rio	2004	6,248		0			None	Y		N		N																				
Chevrolet	Caprice	1990	72,455		0			None	N	90,000	N		N																				
Mercury	Grand Mar	1988	87,701		0			None	Y		N		N																				

Engine Rebuild Info (BKI)																								Catalytic Converter (BKI)									
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Toyota	Tercel	1983	87,893		0			None	Y		Y	Once										Y											
Dodge	Spirit	1990	109,922		1	less than 20,000 miles		New muffler	N	20,000	N		N																				
Honda	Accord	1988	209,384		No			None	N	109,000	N		N																				
Pontiac	Firebird	1979	45,360		0			Carborator	N	Not known	N		N																				
Oldsmobile	Delta 88	1991	139,412		0			None	N	96,000	N		N																				
GMC	Vandura	1983	52,720		0			Rebuilt tra	N	Not known	N		N																				
Ford	Bronco	1990	104,994		0			None	N	Not known	N		N																				
Toyota	Pickup	1983	97,627		No			None	N	85,000	N		N																				
Cadillac	Fleetwood	1989	118,705		0			None	Y		It is totally removed		Y	Sunday of this week																			
Buick	Park Aven	1989	146,845		0				N	140,000	N		Y																				
Chevrolet	ayenne Pic	1973	57,468		No			Not origina	N		N		N																				
GMC	1500	1988	130,666		1	30,000 miles ago		Transmiss	N	45,000	N		N																				
Chevy	El Camino	1976	61,800		0			None	Y		N/A		N																				
Ford	F150	1986	94,729		0			None	N	93,000	N		N																				
Ford	Ranger	1990	72,968		0			New valve	N	150,000	N		N																				
Ford	F-150	1988	62,939		0			None	N	158,000	N		Y	Occasionally																			
Toyota	Camry	1990	138,226		0			None	N	115,000	N		N																				
Oldsmobile	Cutlass	1989	220,953		1	Many yrs ago		None	N	212,000	N																						
Chevrolet	C-10	1983	98,784		0			None	N	80,000	N		N																				
Ford	F150	1988	97,153		1	3,000 plus miles ago		New trans	Y		Y	Once (a w	N																				
Buick	Century	1988	94,539		0			None	N	83,000	N		N																				
GMC	Jimmy	1992	90,855		No			None	N	60,000	N		N																				
Chevrolet	Caprice	1985	58,223		0			New trans	Y		N/A		N																				
Ford	F150	1978	73,439		0			None	N	Not known	N/A	Y																					
Toyota	4x4	1987	169,285		0			None	N	Not known	N		N																				
Oldsmobile	Cutlass	1987	87,003		No				N	42,000																							
Chevrolet	Nova	1976	86,086		0			New carbo	N	65,000	N/A		N																				
Chevy	Impala	1973	94,171		0			None	Y		N/A																						
Ford	F150	1990	38,797		0			New trans	N	85,000	N		N																				
Chevrolet	Malibu	1980	31,245		No			No	N	70,000	N		N																				
Chevrolet	G20 Van	1989	27,420		No			No	N	70,000	N		N																				
Chevrolet	S-10 Blaz	1987	153,390		0			New motor	N	Not known	N		N																				
Dodge	Caravan	2003	10,184		No			None	N	5,000	N		N																				
Ford	Ranger	1989	20,857		0			None	N	99,000	N		N																				
Chevrolet	Monte Car	1984	68,802					None	Y		N		N																				
Saturn	Wagon	1994	32,325		0			None	Y		N		N																				
Ford	Mustang	1979	45,542		0			None	Y		N/A																						
Volkswagon	Thing	1974	81,747		0			None	N		N/A		Y																				
Mazda	B2200	1988	220,309		0			None	Y		N		N																				
Mazda	Protégé	1999	122,960		No				N		N		N																				
Chevrolet	1500	1989	140,662		0			New exhai	N	6,000	N		N																				
Oldsmobile	Cutlass	1990	85,441						Y		N		N																				
Jeep	CJ7	1979	8,509		0			None	N	Not known	N/A		Y																				
Chevrolet	Cavalier	1991	182,333		0			None	N	182,000	N		N																				
Oldsmobile	Cutlass	1990	71,459		0			None	Y		N		N																				
Ford	Granada	1982	64,627		0			None	N	53,000	N		Y																				
Ford	Aerostar	1990	19,631		0			None	N	Not known	N		N																				
Subaru	Forester	2001	62,848		0			None	Y		N		N																				
Toyota	Camry	2001	46,861		0			None	N	15,000	N		N																				
Ford	Escape	2002	36,201		0			None	Y		N		N																				
Pontiac	Grand Prix	1976	60,900		1	2 years ago		Transmiss	Y		N/A		N																				
Chevrolet	Celebrity	1984	64,075		No			None	N	45,000	N		N																				
Buick	LeSabre	1990	107,868		0			None	Y		N		N																				
Honda	Civic	1990	133,958					None	Y		N		Y	Last few months																			
Chevrolet	Conversior	1986	33,238		1	30,000 miles ago		Transmiss	N	95,000	N		N																				

Engine Rebuild Info (BK1)																									Catalytic Converter (BK1)									
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Ford	100 Range	1978	58,882		Yes	1997	Had 200,000 miles	None	N	130,000	N		N																					
Ford	Escort	1998	55,293		0				N	38,000	N		N																					
Chevrolet	Impala	1985	75,903		No				N																									
Chevrolet	Beauville 10	1979	84,006		No				Y																									
Ford	Escape	2005	10,511		No				Y																									
Ford	Focus	2005	6,693		No				Y																									
Dodge	G.C.	2003	47,640						Y																									
Dodge	Caravan	1992	143,963		No				N	95,000																								
Ford	F-150	1995	147,334		No				N	80,000																								
Chevy	Astro	1994	133,309		No				N	30,000																								
Dodge	Grand Car	2000	93,154		No				Y																									
Chevy	Suburban	1997	137,613		No				N	27,000																								
Toyota	4 runner	1998	115,751		No				N	100,000																								
Nissan	Frontier	1998	107,507		No				N	45,000																								
Ford	F-250	1995	52,585		No				N	30,000																								
Dodge	Caravan	1995	138,808		No				N	42,000																								
Chevy	Astro	1992	195,068		No				N	155,000																								
Plymouth	Voyager	1992	235,513		No				Y																									
Chevy	Blazer	1993	164,970		No				N	130,000																								
Chrysler	Voyager	2002	25,981		No				Y																									
Jeep	Cherokee	1996	56,429		No				N	35,000																								
Ford	Club Wagg	1989	13,379		No				N																									
Ford	Taurus	1988	13139																															
Ford	Taurus	1988	13158																															
Ford	Taurus	1988	113170																															
Ford	Taurus	1988	113189																															
Ford	Taurus	1988	113208																															
Ford	Taurus	1988	13239																															
Ford	Taurus	1988	xxx																															
Ford	Taurus	1988	13266																															
Ford	Taurus	1988	13303																															
Ford	Taurus	1988	13323																															
Ford	Taurus	1988	13352																															
Ford	Taurus	1988	13370																															
Ford	Taurus	1988	84450																															
Ford	Taurus	1988	84461																															
Ford	Taurus	1988	84480																															
Ford	Taurus	1988	84507																															
Ford	Taurus	1988	84536																															
Ford	Taurus	1988	84544																															
Ford	Taurus	1988	84578																															
Ford	Taurus	1988	84606																					</										

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	Unknown	Regular	7/12/03	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	3 months	Penzoil	10W-40	None	None	None
	BP	Regular	3000 mi	Walmart Tech 2000	10W-40	None	Replaced Radiator	None
Non OEM Mods - Engine replaced 4/7/04 59,008 miles factory replacement unit	Quick Trip	Regular	7/7/04	Penzoil	5W-30	None	Engine replaced 4/7/04 at 40,000 miles	None
	Phillips 66	Regular	7/12/04	Penzoil	10W-30	None	None	None
Rattling? - Rear	Quick Trip	Regular	5/1/04	Penzoil	10W-30	None	Ground head and replaced 2 valve seats	None
	Phillips 66	Premium	3 months, 2200 miles	Quaker State	10W-30	None	None	None
Reject all wheel drive	Quick Trip	Regular	3/20/04, 5000 miles	Valvoline	10W-30	None	None	None
Rejected 4 wheel drive will not turn off	Citgo	Regular	3000 miles	Walmart Tech 2000	10W-30	None	None	None
	Quick Trip	Regular	4/26/04	Castrol	10W-30	None	None	None
Had to fill \$20 worth of gas to test vehicle	Quick Trip	Regular	7/14/04	Penzoil	5W-20	None	None	None
How long? - Squeak in brake	Unknown	Regular	5/22/04	Unknown	5W-30	None	None	None
	Quick Trip	Regular	7/9/04	Valvoline	10W-30	None	None	None
	Phillips 66	Premium	5/14/04	Unknown	Unknown	None	None	None
	Chevron	Regular	4 months	Quaker State high mileage	10W-40	None	None	Oil leaks, engine makes noise
Reject wheel drive - no turn off/on button	Unknown	Regular	7/12/04	MOPAR	10W-30	None	None	None
	Unknown	Regular	6/18/04	Unknown	Unknown	None	None	None
	Quick Trip	Regular	7/1/04	Castrol	5W-20	Unknown	None	None
	Sam's Club	Regular	90 days	General Motors	10W-30	None	None	None
	Phillips 66	Regular	7/13/04	Unknown	Unknown	None	None	None
	Quick Trip	Regular	128172	Unknown	10W-40	None	None	None
Rattling? - Some jerking	Shell	Regular	1 year	Blank	10W-30	None	Catalyst converter replaced	exhaust was clogged - leakage of coolant
	Conoco	Regular	12000 miles	Unknown	10W-30	None	None	None
Non OEM mods - New spark plugs								
	Sam's Club	Regular	90 days	Valvoline	10W-30	None	None	None
	Phillips 66	Regular	14 weeks	Unknown	10W-30	None	None	None
	Shell	Regular	Unknown	Quaker State	10W-30	None	None	No speedometer and no rear view mirror
	BP	Regular	3400 miles	Castrol	5W-30	None	Cracked head, replaced upper 1/2 of engine	None
	Shell	Regular	not since March	Quaker State	10W-30	None	None	front driver's side tire is bad and we're getting ready to change it
Rejected all wheel drive	Quick Trip	Regular	7/16/2004	GTX	5W-30	None	None	Friday
	BP	Regular	1 month	Pennzoil	5W-30	None	None	Blank
	Flying J	Regular	3 months	Valvoline	10W-30	None	Replaced 5th gear in transmission	Blank
	Conoco	Regular	2500 miles ago	Valvoline	5W-30	None	None	When first started there is a rattling noise possibly from the catalytic converter
Rattling? - Getting exhaust done; Mileage # - Different from ERG info	Texaco	Regular	6 months	Quaker State	40W	None	Transmission	None
	Quick Trip	Regular	One month	Castrol	10W-30	None	None	None
	Unknown	Regular	7/14/2004	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	7/20/2004	Penzoil	5W-30	None	None	Blank
	Quick Trip	Regular	6 weeks ago	Valvoline	5W-30	None	None	Blank
	Conoco	Regular	7/22/2004	Valvoline	10W-40	None	None	None
	Unknown	Regular	5/11/2004	Penzoil	5W-30	None	None	Blank
	Quick Trip	Regular	300 miles	Unknown	10W-30	None	None	None
	Quick Trip	Regular	3000 miles	Super Tech	10W-30	Restore	None	rough idle cold start then high idle to throttle to idle down
	Quick Trip	Regular	2 weeks ago	Castrol	5W-30	Unknown	None	None
	Unknown	Regular	2000 miles ago	Unknown	10W-30	None	None	None
	Caseys	Regular	3000 miles ago	Honda made by Mobil	10W-30	None	transmission replaced in winter 03	None
	Phillips 66	Regular	2 months	Unknown	10W-30	None	None	None
	Citco	Regular	7/25/2004	Valvoline	5W-30	None	Chaned intake manifold gaskets 3 months ago	None
	Conoco	Regular	5/18/2004	Unknown	5W-30	None	None	Blank
Rattling ? - Some squeaking	Phillips 66	Regular	about June 20th	SuperTech	10W-30	None	None	Blank
	Conoco	Premium	2000	Quaker State	10W-30	None	None	None

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	Phillips 66	Regular	7/23/2004	Blank	5W-30	None	None	None
	Phillips 66	Regular	5 months ago	Unknown	10W-30	None	Radiator replaced front wheels replaced	None
	Murphys	Regular	7/25/2004	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	1000	Unknown	10W-30	None	None	None
	Conoco	Premium	6 months	WalMart Brand	10W-30	None	None	No engine problems. Noise in drivers from wheel when turn
	Quick Trip	Regular	5/7/2004	Unknown	5W-30	None	None	I think the fuel injectors get clogged. It doesn't seem to have the get up & go that it used to.
	Conoco	Regular	May-04	Motorcraft	5W-20	None	None	None
	Shell	Regular	1 year	Valvoline	10W-40	None	None	Oil leaking from engine, need front end alignment
	Quick Trip	Regular	7/26/2004	Penzoil	Unknown	None	None	Usually dies on first attempt to start
	Conoco	Regular	3 months	Castrol	5W-30	None	Timing Belt	None
	Texaco	Regular	May-04	Riley	5W-30	None	None	None
	Unknown	Regular	3-4 months	Unknown	10W-30	None	replace radiator; replace power steering mechanism	None
	Quick Trip	Regular	3 months	Firestone	10W-30	None	brakes, calfers, A/C	None
	Unknown	Regular	5/20/2004	Riley	5W-30	None	None	None
	Quick Trip	Super	4 months	Unknown	Unknown	None	Front Bumper/hood	None
	Texaco	Regular	6/2/2004	Riley	5W-30	None	None	None
	Quick Trip	Regular	7/30/2004	Quaker State	10W-40	None	None	None
	Shell	Premium	6 months	Quaker State	10W-30	None	None	None
	BP	Regular	Unknown	Unknown	10W-30	Unknown	Unknown	None
	Quick Trip	Regular	5/25/2004	Havoline	10W-30	None	None	Cutting out a little
	Conoco	Regular	7/12/2004	Unknown	5W-30	Unknown	Thermostat replaced	Blank
	Unknown	Regular	2000 miles ago	Quaker State	10W-30	None	None	None
	Conoco	Regular	2 weeks ago	Unknown	10W-30	None	None	None but A/C doesn't work
	Quick Trip	Regular	2 months	Firestone	10W-30	None	brakes	None
Rattling ? - Muffler loose	Citco	Regular	2 months	Mobil One Synthetic	5W-30	None	None	None
	BP	Regular	Jun-04	Penzoil	10W-30	None	None	renewative material gone from drivers side headlight - won't
	Phillips 66	Premium	Mar-04	Penzoil	10W-30	None	Transmission replaced	Blank
Service light turned on	BP	Regular	Blank	Blank	Blank	None	None	Blank
	Quick Trip	Regular	3200 miles ago	Quaker State	10W-30	None	Replaced head gasket	None
	Conoco	Regular	2000 miles ago	Mobil One Synthetic	5W-30	None	None	Blank
	Quick Trip	Regular	19-Apr	Penzoil	10W-30	None	None	Sometimes gas pedal sticks
Rattling ? - Frond end - b/c 4 wheel drive has loose parts	Quick Trip	Regular	One month	Penzoil	10W-40	None	None	Blank
	Quick Trip	Regular	3 months	Firestone	10W-30	None	Driver's door replaced, brakes	None
	Conoco	Regular	5 days ago	Valvoline Maxlife	5W-30	Blank	None	Blank
Rattling? - Engine light comes on; Mileage - Different from ERG info	Conoco	Regular	71890	Exxon	10W-30	None	None	First start of day not as rapid as when new
	BP	Regular	2/21/2004	Firestone	10W-30	Blank	Blank	
	BP	Regular	Blank	Advanced Auto Parts	10W-30	None	rebuilt transmission	Alternator belt broke recently
Rattling? - Shock	Quick Trip	Regular	Jun-04	Troparcic	10W-30	Lucas	Fuel Pump	Blank
	Quick Trip	Regular	2 weeks	Valvoline Sun	10W-30	None	New engine	Oil pump failure with resulting seizing
	Unknown	Regular	7/22/2004	Mobil	5W-30	None	None	Blank
	Quick Trip	Regular	July	Unknown	Unknown	Unknown	None	No problems
	Quick Trip	Regular	2 months	Quaker State	10W-30	Blank	None	None
	Diamond Shamrock	Regular	4,000 miles	Blank	Blank	None	None	None
	BP	Regular	2 months	Unknown	10W-30	None	None	1 motor mont needs to be put on it
Rattling? - Muffler	Caseys	Regular	257058	Super Tech	10W-30	None	None	Have to pump accelerator peddle to start car
Rattling? - When it idles	Unknown	Regular	Jul-04	Havoline	5W-20	None	None	idles rough at stop lights
Rattling? - Fuel pump is rattling	Quick Trip	Regular	One month	Castrol	10W-30	"Sea Foam"	Replaced fuel pump	Think we have a defective fuel pump that is new needs to be taken off and replaced

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							12/03 Engine light - Code P0401 - Insufficient EGR flow clean intake - install EGR kit	
	Phillips 66	Regular	6/9/2004	Penzoil	5W-30	None		Blank
	Quick Trip	Regular	8/8/2004	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	3 months	Dealer brand	Blank	Blank	None	Blank
	Conoco	Regular	6 months	Kendal	10W-30	Blank	None	Blank
	Phillips 66	Regular	2/25/2004	Penzoil	5W-30	None	New transmission 4/23/04	None
	Quick Trip	Regular	8/4/2004	Quaker State	10W-30	None	new brakes	None
	Phillips 66	Regular	18 months	Havoline	10W-30	None	None	None
	BP	Premium	24-Apr-04	Quaker State	Blank	Unknown	None	Blank
	Amoco	Regular	5 or 6 months	WalMart	10W-30	None	None	Harmonic Balancer is ratteling
Non OEM mods - Past due for oil change by 2 or 3,000 miles	Diamond Shamrock	Regular	3 months	Castrol	20W-50	None	None	Runs fine
	Diamond Shamrock	Regular	2-3 months	Unknown	10W-30	None	None	None
	Quick Trip	Regular	May-04	Valvoline	10W-30	None	None	Leaks oil and may run hot if idled for too long
	Shamrock	Regular	2.5 months	Penzoil	10W-30	None	None	Blank
	Quick Trip	Regular	2 months	Valvoline	10W-30	None	None	None
Rattling? - Squeak on driver side front	Phillips 66	Regular	3000 miles	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	Blank	Penzoil	10W-30	None	None	Small leak (oil)
	Blank	Regular	June 1st	Havoline	10W-30	None	Speedometer gear in transmission	High RPMs
Rattling? - Some (possible shock)	Quick Trip	Regular	May	Penzoil	10W-30	None	None	None
Rattling? - cracked								
	Amoco	Regular	Apr-04	Valvoline	10W-30	Blank	Transmission overhaul	Blank
	Quick Trip	Premium	May	Penzoil	10W-30	None	None	None
	Unknown	Regular	6/1/2004	Unknown	5W-30	None	None	No problem
	Quick Trip	Regular	2,000 miles	N/A	10W-30	None	None	None
	Unknown	Regular	8/7/2004	Unknown	10W-30	None	None	None
	Amoco	Regular	4 months	WalMart	10W-30	Blank	None	Timing on the isonborder needs adjusted
	Quick Trip	Regular	9/11/2004	Penzoil	Unknown	Unknown	Radiator replaced	works well
	BP	Regular	been quite a while	penzoil some generic	10W-40	None	None	carb probs & oil leak
								check engine light has come on 3 times since January. Problems
	Unknown	Regular	8/7/2004	Super Tech	10W-30	None	None	None
	Phillips 66	Premium	May-04	Penzoil	10W-30	None	None	None
	Conoco	Regular	42,000	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	3 months	Vavoline	5W-30	None	None	Unaware of any
	Conoco	Regular	5/15/2004	Penzoil	5W-30	None	None	None
	Quick Trip	Regular	60 days	WalMart	10W-30	None	None	None
	Phillips 66	Regular	2000 miles	Quaker State	10W-30	None	Rebuilt alternator	None
	Wood Oil	Regular	A month ago	Penzoil	Blank	Blank	Yes	Blank
	Phillips 66	Regular	refer to windshield	Penzoil	Refer to sticker	None	Catalytic converter 1 yr 6 months	Run on after turning off engine
								Flat cam, trk will not pull hills or run at highway speed long
	Unknown	Regular	Unknown	Penzoil	10W-30	None	None	
PEMS only too wide dyne	Other	Regular	1 month	Vavoline	10W-40	None	None	Blank
	Caseys	Premium	300 miles ago	Penzoil	10W-30	None	None	None
	Caseys	Regular	2,000 miles ago	Vavoline	10W-30	None	None	None
	Quick Trip	Premium	5,000 miles ago	Penzoil	5W-30	None	None	None
	Quick Trip	Regular	6/8/2004	Penzoil	10W-30	None	None	None
	Conoco	Regular	8/20/2004	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	3 months	Penzoil	10W-30	None	None	Blank
	Texaco	Regular	3 months	Penzoil	10W-30	None	None	Blank

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	Shell	Regular	8/14/2004	Penzoil	5W-20	None	None	None
	BP	Regular	8/25/2004	Valvoline	5W-30	None	Leaking water pump replaced	Engine died on slowing down. Replaced EGR and oxygen sensor - runs ok now - March 2004
	7 Eleven	Regular	Jul-04	Exxon Super HQ	10W-40	None	Inner Tie rods	Blank
	BP	Regular	Jun-04	Amoco	10W-30	None	None	None
	Conoco	Regular	6/7/2004	Valvoline	10W-30	None	None	None
	Texaco	Regular	4 months	Quaker State	5W-30	Blank	None	Does not start in neutral
	Unknown	Regular	6,000	Valvoline	5W-30	None	None	None
	Quick Trip	Regular	2 months	Econoline	10W-30	None	timing belt & water pump & clutch ring	
	Quick Trip	Regular	80222 miles	GM Goodwrench	10W-30	None	None	None known
	Phillips 66	Regular	Jun-03	Penzoil	10W-30	None	None	None
	Citgo	Regular	10/16/2003	Penzoil	10W-30	None	None	vehicle generally driven around town - not suitable for commuting outside city limits. Vehicle may run hot, has slow antifreeze leak
	BP	Regular	3,500 miles	Valvoline	5W-30	None	None	Spark plugs are fouled - need to be changed
	BP	Regular	4,000 miles	Valvoline	5W-30	None	None	None
	BP	Regular	1 year	Texaco	10W-30	Pro-Long	None	Tune-up Fuel injector needs cleaning
	Quick Trip	Regular	Unknown	Exxon	10W-40	None	None	None known
	Quick Trip	Regular	2 months	Penzoil	10W-30	None	None	Check engine light comes on but goes off after 20 minutes
	Quick Trip	Premium	3 weeks	O'Reilly	10W-30	Unknown	replace moter & transmission	wiring & computer trouble
	BP	Regular	3 months	Castrol	5W-30	None	None	None
	Shell	Premium	8/28/2004	Firestone	5W-30	None	None	None
	Quick Trip	Regular	3 weeks	Castrol	10W-30	None	None	engine/transmission control has problems with coming out of torque convertor lock up around 43-45 mph
	Phillips/Conoco	Regular	3 weeks	Unknown	10W-30	None	head gasket replaced	None
	Phillips 66	Regular	3/17/2004	Penzoil	10W-40	None	None	Blank
	Quick Trip	Regular	6 months ?	Castrol	10W-30	None	None	None
	Quick Trip	Regular	One month	Valvoline	10W-30	None	None	Runs a little rough when first started
	Phillips 66	Regular	Mar-04	Penzoil	10W-30	None		None
	Quick Trip	Regular	17-Jul-04	Penzoil	10W-30	None	None	None - new brake pads
	Texaco	Regular	3 months	Penzoil	10W-30	None	just bought the car in August 04	None
Mileage at purchase? - Odometer does not work	BP	Regular	4 months	Quaker State	10W-40	None	None	some
	Phillips/Conoco	Regular	8/3/2004	Penzoil	10W-30	None	None	drivers side window will fall into door (pliers in quadrant) check engine light stuck on - no problem with car
	Quick Trip	Regular	17-Jul-04	Penzoil	10W-30	None	None	None
	Shell	Regular	2 months	Quaker State	10W-30	None	None	None
	Amoco	Regular	18 months	Quaker State	10W-40	None	None	Needs tune up
	Conoco	Regular	9/8/2004	Penzoil	10W-30	Unknown	None	None
	Texaco	Regular	3,000 miles	Motor oil	10W-40	None	None	None
	BP	Super	35,252	Valvoline	10W-30	None	None	front brakes low, left blinker broken - must hold down to activate/operate
Rattling ? Stepboard	Quick Trip	Regular	Mid July	Valvoline	5W-30	None	None	engine rod is knocking
	Phillips 66	Regular	Mar-04	Jiffy Lube	Unknown	None	None	Blank
	Shell	Regular	2 months	Havoline	10W-30	None	Blank	Blank

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	Quick Trip	Regular	Aug-04	Mobile	10W-40	None	None	None
	Quick Trip	Regular	Summer 2004	Jiffy Lube	Heavy wt synthetic for high mileage cars	Bardahl no smoke	replaced starter & fuel pump	doesn't like to drive > 50/55 mph
	Phillips 66 Woods Mini Mart	Regular	3 months	Honda dealer brand	Unknown	None	None	None
		Regular	Blank	Havoline	10W-30	None	None	need to replace muffler & tail pipe
Rejected	Conoco	Regular	8 months ago	Quaker State	10W-40	STP Oil Treatment	None	None
	Conoco	Premium	2 months ago	Quaker State	10W-40	STP Oil Treatment	None	None
Cat been replaced? 1-2 years ago	Blank	Regular	One week		10W-40	None	Transmission muffler	tend to shake when stopping
	Quick Trip	Regular	3 months	Quaker State	10W-30	None	None	check engine light on because sometimes won't fire on one cylinder
Rattling? - Shocks	Quick Trip	Regular	Jun-04	Valvoline	10W-30	None	None	drivers door latch inside broken
	Woods	Regular	9	Penzoil	10W-30	None	None	Blank
	Quick Trip	Regular	6-Mar-04	Mobile 1	5W-30	None	None	
	BP	Regular	1 month ago	Penzoil	10W-30	None	tierod - right front/wheel bearings - front	at an idle when A/C is on it sputters and loses power - popping sound when turning
	Quick Trip	Regular	7/19/2004	Valvoline	5W-30	None	repair rear of car & muffler (car accident)	None
	BP	Regular	7/1/2004	Shell	5W-30	None	None	None
	Quick Trip	Regular	2.5 months	Shell	5W-30	None	None	None
			about 2 months ago - not sure					
	Unknown	Regular		Shell	5W-30	None	None	None
	Quick Trip	Regular	Blank	Valvoline	5W-30	None	None	Blank
	Shell	Regular	7/10/2004	Penzoil	5W-30	None	None	Blank
	Conoco	Regular	7/5/2004	Mobil	5W-30	None	None	None
	Phillips 66	Regular	3 months	Blank	20-50W	None	None	Bad gas - Diamond Shamrock caused it to miss
Cat been replaced? - over 5,000 miles ago. Rattling reason for cat replcmnt? - e	Shell	Regular	at 120,000 miles	Valvoline	10W-30	STP	None	We think the oxygen sensor is out
	Conoco	Regular	7/27/2003	Valvoline or Castrol	10W-30	None	None	High temperature at low idle after highway driving
	BP	Regular	8/21/2004	Penzoil	10W-30	None	None	Blank
	Quick Trip	Regular	5/12/2004	Quaker State	5W-30	Noen	None	None
	Unknown	Regular	7 months?	Havoline	10W-30	None	None	the check engine light stays on and so does the brake light
Cat been replaced? - over 5,000 miles ago	Kwik Stop	Regular	about 1,600 miles ago	Unknown	Unknown	None	timing belt, wheel bearing, CV boot	burns a slight amount of oil
	BP	Regular	Jul-04	Unknown	10W-30	None	None	None
	Conoco	Regular	approx 3 months ago	Penzoil	5W-30	None	None	sluggish very little power
	Quick Trip	Regular	2-3 weeks ago	Penzoil	5W-30	None	None	None
	Conoco	Regular	5-Aug-04	Castrol	5W-20	None	None	None
	Phillips 66	Regular	1,740 miles	Valvoline	5W-30	None	None	None
	BP	Regular	2 months	Penzoil	10W-40	None	None	Blank
	Quick Trip	Regular	5/17/2004	Quaker State	5W-30	None	None	None
	BP	Regular	6 months	Blank	5W-30	None	None	None
	Conoco	Premium	3 months	Quaker State	10W-30	Prolong	None	None
	BP	Premium	1 month	Castrol	10W-30	Prolong	None	None
	Quick Trip	Regular	Jun-04	Quaker State	10W-40	None	None	Blank
	Conoco	Regular	6 months	Valvoline	10W-30	None	None	None

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	Casey's	Regular	2 weeks	Penzoil	10W-30	None	None	Must give a little gas until warm - watch temp gauge
	Unknown	Regular	Jun-04	Valvoline	5W-30	None	None	None
	Phillips 66	Regular	6/14/2004	Kendal	10W-30	None	None	Blank
	Quick Trip	Regular	12-Aug-04	Castrol	5W-30	None	Transmission fluid & filter change & oil change	Shocks need to be changed - working on it.
	Conoco	Regular	-6,000	Mopar	10W-30	None	None	None
	Quick Trip	Super	2 days	Kendal	10W-30	None	None	None
	Cosco	Regular	Unknown	Unknown	Unknown	Unknown	Unknown	None
	Casey's	Regular	1,500	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	9/9/2004	Quaker State	10W-30	Unknown	None	None
	Phillips 66	Regular	7/4/2004	Unknown	we use pure synthetic	None	None	None
	BP	Regular	5 months	Unknown	10W-30	None	Head gasket	muffler
	Cosco	Regular	2 months	Penzoil	10W-30	None	None	Air flow meter sensor replaced 8/04
	Quick Trip	Regular	two weeks	Jiffy Lube	Blank	None	None	Blank
	Quick Trip	Regular	60 days	Havoline	5W-30	None	It has a new ?? (illegible)	?? (illegible)
	Casey's	Regular	1,500 miles	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	previous week	Penzoil	10W-30	None	Fixed leaking water pump	once in a while it will hesitate when giving gas to start going
	Sinclair	Regular	31-May-04	O'Reillys Store brand	10W-30	None	None	None
	Texaco	Regular	1 month	synthetic	10W-30	None	None	None
	Quick Trip	Regular	4 months ago	Penzoil	10W-30	None	Blank	No emergency brake
	Quick Trip	Regular	18-Jul-04	Valvoline	5W-30	None	None	Blank
	Quick Trip	Regular	Aug-04	Unknown	10W-30	None	rebuilt transmission 4/2004	Unknown
	Quick Trip	Regular	4-5,000 miles	Unknown	10W-30	None	None	exhaust manifold mount (connection to block) getting loose
	Unknown	Regular	last November	Unknown	5W-30	None	None	None
	Texaco	Regular	4/1/2004	Penzoil	10W-30	Unknown	Unknown	Unknown
	Phillips 66	Regular	2-3 thousand	Trop Artic	5W-30	None	None	None
	Texaco	Premium	1,000 miles	Valvoline	5W-30	None	None	None
	Chevron	Super	2 years ago - drive only in summer	Castrol	20W-50	None	None	None
	Conoco	Regular	18-Aug-04	Kendall	10W-30	None	None	None - Runs fine
Rattling? - Rotors are warped make noise sometimes, radio works only sometimes	Texaco	Regular		Penzoil	10W-30	None	None	None
	Texaco	Regular	1 week	Quaker State	10W-30	Blank	None	None
	Casey's	Super	167,471	Castrol	5W-30	fuel injector additives (cleaner)	None	None
	Quick Trip	Regular	645,819	Quaker State	10W-40	None	None	Blank
	Quick Trip	Regular	Jun-03	Shell	10W-30	None	None	None
	Phillips 66	Regular	14-Aug-04	Quaker State	5W-30	None	None	Blank

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Rattling? - ??	Shell	Regular	July	Unknown	10W-30	None	rebuilding engine	Blank
	Quick Trip	Regular	Aug-04	Quick Trip	10W-40	None	None	None
	Shell	Premium	1.5 weeks	Ford	10W-30	Unknown	None	None
	Unknown	Regular	Aug-04	Unknown	5W-30	None	None	None
	Phillips 66	Regular	2-Jul-04	Texaco	10W-30	None	None	One morning the engine continued to idle after I turned off the ignition - about 1.45 weeks ago
	Casey's	Super	30,000	Castrol - Sentech	5W-30	None	None	None
	Phillips 66	Regular	2 months	Unknown	10W-30	Unknown	timing ??? Replaced	O2 sensor replaced - drove/run poorly
	BP	Regular	Sep-04	Unknown	10W-30	None	None	Power steering whines
	Phillips 66	Regular	14-Aug-04	Kendall	Blank	Blank	None	Check engine light comes on occasionally - O2 sensor problem 2.5 years ago
Different from ERG info; Rattling ? - Both boxes checked (Y/N).	Quick Trip	Regular	1.5 months ago	Penzoil	10W-30	Unknown	Valve seat broke	None
	Quick Trip	Regular	Blank	Blank	Blank	Blank	None	Blank
	Phillips 66	Regular	10/26/2004	Penzoil	5W-30	N/A	None	None
	Quick Trip	Regular	1,000 miles	Unknown	10W-30	None	None	None
	Conoco	Regular	Blank	Unknown	10W-30	None	None	None
	Phillips 66	Regular	9/28/2004	Penzoil	5W-20	None	None	None
	Texaco	Regular	within 3,000 miles	O'Reiley	5W-30	None	None	None
	Quick Trip	Regular	9/9/2004	Unknown	10W-30	None	None	None
	Unknown	Regular	7/17/2004	Penzoil	10W-30	Penzoil Synthetic #10	None	Had motor tune up (95350) new platinum plugs - throttle body & fuel injection cleaned - air & fuel filter replaced
	Unknown	Regular	Blank	Valvoline	5W-30	None	Unknown	service engine light stays on
	Phillips 66	Regular	3,000	Motorcraft	10W-40	None	None	a little unstable in cross winds
	Phillips 66	Premium	800 miles	Quaker State	10W-30	None	None	Blank
	Diamond Shamrock	Regular	10/22/2004	Penzoil	5W-30	None	Unknown	None
	Conoco	Regular	1/13/2005	Valvoline	5W-30	None	None	None
	Quick Trip	Regular	12/29/2004	Castrol	5W-30	None	None	Unknown
	Texaco	Regular	2,000 miles	Valvoline	5W-30	None	None	alternator is broke lights strobe
	Shell	Regular	2 weeks	Shell	10W-30	None	None	None
	Phillips 66	Regular	Nov-04	Shell	5W-30	None	None	Blank
Cat been replaced? - Needs to be	Quick Trip	Regular						
	Blank	Regular	Blank	Unknown	10W-30	Blank	Blank	None
	Chevron	Super	3 weeks	Penzoil	10W-30	None	None	The universal belt started squeeking about 3 days ago, believe its from the extreme cold
	Texaco	Regular	3 weeks	Penzoil	10W-30	None	None	None
	Unknown	Regular	2,000 miles	Quaker State	5W-30	None	None	Blank
	Blank	Regular						None
	Casey		2,000	Castrol	5W-30	None	None	None
	Quick Trip	Regular	10/2/2004	Valvoline	5W-30	Unknown	None	Blank
	Conoco	Regular	10-Jan-05	Unknown	10W-30	None	None	Leaky valve cover gasket
	Shell	Premium	150 miles	Quaker State	5W-30	Prolong	None	None
	Conoco	Super	3 weeks	Kendall	10W-30	None	None	None
	Quick Trip	Regular		Unknown	5W-30	None	None	runs rough when AC is on
	Quick Trip	Regular	a month ago	Dealer brand	5W-30	None	None	Needs to warm up in cold weather or problem shifting into drive can occur

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	Quick Trip	Regular	9/20/2004	2804 BFS	10W-30	Sometimes oil/gas additive from WalMart	None	transmission flush 11/22/04; problems since but not before
	Phillips 66	Regular	11/17/2004	Kendall	10W-30	None	None	Blank
	Quick Trip	Regular	2 weeks	Penzoil	10W-30	None	None	None
	BP	Regular	11/28/2004	Quaker State	5W-30	None	None	None
Rattling - Rear shock	Quick Trip	Regular	11/6/2004	Valvoline Max Life	10W-40	None	Transmission rebuilt in october 2004	Blank
	Texaco	Regular	10/30/2005	Penzoil	Unknown	Synthetic	None	None
	Casey's	Regular	3,000 miles	Penzoil	10W-30	None	None	None
	BP	Regular	19-Nov-04	Penzoil	5W-30	Sometimes - WalMart Brand	None	Blank
	BP	Premium	2 months	Valvoline	10W-30	Unknown	None	Check engine light always
	Quick Trip	Regular	Blank	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	Oct-04	MaxLife	10W-30	None	None	Blank
Rattling - Occasionally	Quick Trip	Regular	3 months	Quaker State	10W-30	None	None	None
Rattling - Electrical rattle	Quick Trip	Regular	27-Dec	Unknown	Blank	None	None	transmission may stick if cold when shifting into reverse
	Quick Trip	Regular	2,000 miles	Unknown	10W-30	None	None	None
	Quick Trip	Regular	12/18/2004	Advanced Auto	10W-30	None	None	None
Rattling - Some rattling accelerating uphill	Quick Trip	Regular	2 months	Unknown	Unknown	None	None	Engine ok, no problems. Needs front end work but sure what & shocks
Rattling - Not sure	Quick Trip	Regular	Nov-04	MaxLife	10W-30	None	None	None
	BP	Regular	10/31/2004	Valvoline	10W-30	None	Catalyst converter 11/22/04	None
	Differs	Regular	4 months	Quaker State	10W-30	None	None	oil leak - needs to be realigned - pulls to right
	Texaco	Premium	June	Jiffy Lube	10W-30	None	None	None
	Unknown	Regular	1 week	Penzoil	10W-30	None	None	Sputters when cold
does not have a catalytic converter.	Phillips 66	Regular	2,000 miles	Blank	20-50	None	Fuel Injector	Some fuel injectors need changing
	Seven-11	Regular	awhile	cheap stuff	10W-40	None	None	oil leak and carb problems
	Quick Trip	Regular	11/14/2004	Kendall	Unknown	Unknown	None	Check engine light comes on occasionally
Rattling - Some	Quick Trip	Regular	1,500 miles ago	Penzoil	10W-30	None	None	None
	Exxon	Regular		Valvoline	10W-30	None	None	Blank
Check engine light on.	Unknown	Regular	2,200 miles	Penzoil	10W-40	None	None	Check engine light is on - all fluids topped off, transmission will slip and is going out
	Citgo	Regular	9/26/2004	Penzoil	10W-30	None	None	Good driving order
Rattling - Some	Conoco	Regular	1/14/2005	Quaker State	10W-30	None	None	None
	Quick Trip	Premium	1/20/2005	Penzoil	10W-30	None	Converter 7/20/04	None
	Unknown	Regular	5,000 miles	Penzoil	10W-40	Slick 50	None	Transmission does not engage overdrive
	Sam's	Regular	4,000	GMC	10W-30	None	None	None
Rattling - Rarely	Citgo	Super	4-Aug-04	Quaker State	10W-30	None	Carburetor rebuilt	Engine knocks badly on specified low octane fuel. Engine stalls at wide open throttle. Engine runs poorly when cold.
	Quick Trip	Regular	2 months	Quaker State	10W-30	None	Replaced alternator	Blank
	Blank	Regular	Oct-04	Unknown	10W-30	None	Replaced alternator	None
Rattling - Some	Phillips 66	Regular	Nov-04	Quaker State	10W-30	None	None	None
	Sinclair	Regular	3,000 miles	GM	10W-40	None	None	Blank
	Unknown	Regular	Unknown	Unknown	Blank	None	None	Blank
	Conoco	Regular	2/1/2005	Castrol GTX	Unknown	None	None	ABS system acting up - diagnosis uncertain
	Quick Trip	Premium	2 weeks	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	7/22/2004	Ford Motor Co.	10W-30	None	Transmission repair 10/8/04	None that we are aware of
	Quick Trip	Regular	12/29/2004	Penzoil	10W-30	None	None	None

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	Quick Trip	Regular	Dec-04	Havoline	5W-20	None	None	Blank
Rattling - Some	Shell	Regular	One year	Penzoil	10W-30	None	Transmission rebuilt	Check engine light comes on after ` 10 minutes - no noticeable performance issues
	Quick Trip	Regular	4,000 miles	Penzoil	10W-30	None	Water pump/muffler	Hood hard to open
Rattling - Last 2 months	Quick Trip	Regular	3 months	Castrol	10W-40	Lucas Oil	transmission	Blank
Vehicle has 2 plates	Quick Trip	Regular	1-Feb-05	Penzoil	5W-20	None	None	None
	Quick Trip	Regular	11/31/04	Penzoil	10W-30	None	None	None, but needs CV joint replacement
	Quick Trip	Regular	5 months	Penzoil	10W-30	None	None	Needs tune-up, timing adjustment, carburetor & engine rebuild, manifold gaskets
	Total	Regular	Sep-04	Valvoline	10W-30	None	None	Blank
	Quick Trip	Regular	Before I	Unknown	5W-30	None	None	None
	BP	Premium	2/3/2005	Chrysler brand	10W-30	None	None	None
	Shell	Regular	1,000 miles	Quaker State	5W-30	None	#1 injector replaced	IAC sluggish on start up after hot soak
Rattling - Some	Casey's	Regular	6,000 miles	Penzoil	10W-30	Marvel Mystery Oil	New water pump & thermostat	Possible worn valve
	Texaco	Regular	3 months	Quaker State	10W-30	None	Head gasket replaced	None
	Conoco	Regular	2/7/2005	Castrol	5W-30	None	None	None
Cat been replaced - 3 years ago.	Quick Trip	Premium	12/11/2004	Castrol	5W-30	None	None	Needs front end alignment, brakes, catalytic converter leaks
	Quick Trip	Regular	12/11/2004	Castrol	5W-30	None	None	None
Rattling - Some not all the time	BP	Regular	Sep-04	Blank	10W-30	None	None	None
	Shell	Regular	11/17/2004	Valvoline	10W-30	None	None	None
	Fisca Oil	Regular	1,500 miles	Penn	10W-30	STP for Older Eng	I put a new clutch in	None
Non OEM Mods - Air bag light stays on.	Shell	Regular	Dec-04	Havoline	10W-50	None	None	None
	Quick Trip	Regular	Oct-04	Havoline	10W-30	None	None	None
Non OEM Mods - Transmission leak repaired last fall.	Quick Trip	Regular	1-Oct-04	Penzoil	10W-30	None	Transmission leak repaired -seals	Blank
	Quick Trip	Regular	Blank	Shell	Under the hood	None	None	Engine will stall at highway speed (60 mph) until warmed up
	Conoco	Regular	2/10/2005	Mobil	5W-30	None	None	None
	Quick Trip	Regular	12/15/2004	Ford Motor Co.	10W-30	Blank	None	None
	Walmart	Regular	2/8/2005	Penzoil	10W-30	None	None	Burns Oil
Rattling - Tail pipe loose	Quick Trip	Regular	about 2,700 miles	Quaker State	5W-30	None	None	Blank
	Casey's	Regular	less than 1,000 miles ago	Valvoline	10W-30	None	None	None
Rattling - Some	Shell	Regular	4 months	Penzoil	10W-30	None	None	Blank
	Shell	Premium	Jan-05	Havoline	20W-50	None	None	None
	Quick Trip	Regular	Unknown	Unknown	Unknown	Unknown	None	Unknown
	Conoco	Regular	1/18/2005	Kendall	10W-30	None	None	None
	Philips 66	Regular	2,400 miles	Valvoline	5W-30	None	Transmission rebuild, starter, smog pump, alternator, water pump, rings and seals	None
	Philips 66	Regular	1/2/2005	Quaker State	10W-30	None	None	Blank
	Texaco	Regular	9 months	Quaker State	10W-30	None	None	funny sound when turning
	Costco	Regular	1/15/2005	Unknown	10W-30	None	None	None
	Unknown	Super	2/15/2005	Philips	10W-30	None	None	Pinging when lower octane fuels are used
	BP	Regular	1,000 miles ago	Penzoil	10W-30	None	None	None
	Shell	Regular	Dec-04	Havoline	20W-50	None	None	Car runs fine
	Philips 66	Super	Due Now	Quaker State	10W-30	None	None	Blank
Rattling - Some when starting	Unknown	Regular	Feb-05	Shell	10W-30	None	None	None
	Quick Trip	Regular	11,9350 miles	Castrol GTX	10W-40	None	None	Blank
	Quick Trip	Regular	1800	Ford M/C	5W-20	None	None	None
	Conoco	Regular	Nov-04	Unknown	10W-30	None	None	None

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	Quick Trip	Premium	1/22/2005	Valvoline	5W-30	None	None	None
	Citgo	Regular	5 months	Quaker State	10W-30	None	None	None
	Sinclair	Regular	7/28/2004	Unknown	10W-30	None	None	Small external coolant leak (head gasket)
Cat been replaced - over 20,000 miles ago.	Philips 66	Regular	12/12/2004	Valvoline	10W-30	None	None	Blank
	Philips 66	Regular	6 months	Unknown	Unknown	Unknown	None	Check engine light comes on if drive over 65 mph/checked out and don't know why
	Quick Trip	Regular	Nov-04	Valvoline	10W-30	None	None	Bad brakes
	Citgo	Regular	Late December	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	Dec-04	Valvoline	5W-30	None	None	Squeek in steering - occasional starts rough, check engine light
	Philips 66	Premium	4,000 miles ago	Volvo One Synthetic	10W-30	None	None	exhaust leak
	Conoco	Regular	Nov-04	Mobile One Synthetic	10W-30	None	replaced alternator	engine light always on
	Philips 66	Regular	20-Jan-05	Penzoil	10W-30	None	None	None - Although the check engine soon light came on Monday 3/21/05
Exhaust system was worked on & repaired about one month ago not sure what was replaced (\$250).	Quick Trip	Regular	Dec-04	Kendall	10W-30	None	Replaced fuel injector	None
	Quick Trip	Premium	1,500 miles	Penzoil	10W-30	None	None	None
	Wood Oil	Regular	20-Jan-05	Unknown	5W-30	None	Manifold & head gaskets replaced after engine overheated	None
	Shell	Regular	One week	Quaker State	10W-30	Zero F - Metal Conditioner	None	in the last week, it has not shifted to OD smoothly
	Casey's	Regular	Oct-04	Penzoil	10W-30	None	Rebuilt Transmission in April 2004	Engine knocking
	Blank	Regular	Nov-04	Valvoline	5W-30	None	None	dash rattles when idling
	Unknown	Regular	One Month	Unknown	Unknown	None	None	None
	Unknown	Regular	200 miles	Valvoline	10W-30	None	Replaced half shaft	None
	Philips 66	Regular	128,198	Penzoil	5W-30	None	None	None
	Shell	Regular	3,000	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	2,400 miles	Unknown	10W-30	Unknown	None	Blank
	Quick Trip	Regular	8,000 miles	Valvoline	10W-30	None	Head gaskets, idle air control valve	leave transmission shift indicator in (D) (Overdrive) or it will buck a lot
	Conoco	Regular	Jan-05	Penzoil	10W-30	None	Ford recall on catalyst	None
	Pillions	Regular	2/19/2005	Kendall	5W-30	None	None	None
	Shell	Regular	Nov-04	Quaker State	Blank	Blank	None	Blank
	Costco	Regular	1,950 miles	Quaker State	10W-30	None	None	None
Mileage at purchase - 100,000 not sure	Unknown	Regular	4 months	Havoline	10W-30	None	None	None
Non OEM Mods - brakes 3,000 + miles ago, Catalytic Converter - may have so	Quick Trip	Regular	11/26/2004	Motorcraft	5W-30	None	None	None
	Philips 66	Regular	~1,400 miles ago	Penzoil	10W-40	None	None	Bad transmission
	Costco	Regular	1,080 miles	Quaker State	10W-30	None	None	None
Non OEM Mods - Mass airflow changed August 04, error code may still show G	Unknown	Regular	12/6/2004	Quaker State	10W-30	None	None	None. Gas gauge out - good till 300 miles on tripometer
Cat been replaced? - 3,000+ miles ago	Texaco	Regular	2 months	Penzoil	10W-30	STP 2/27	None	None
	Kwik Shop	Regular	10/20/2004	Valvoline	10W-40	None	None	None
	Shell	Regular	October	Havoline	10W-30	None	None	None
Rattling? - Some	Philips 66	Regular	8-Jan-04	Havoline	10W-30	None	Muffler/tail pipe installed 2/28/05	if car is driven on a cold engine, severe backfiring will occur during
	Quick Trip	Regular	3 months	Valvoline	5W-30	None	None	do not put down driver's window
	Quick Trip	Regular	2 months	Conoco	10W-30	None	None	None
Rattling? - Some @ 75 mph	Philips 66	Regular	2,500 miles	Castrol	5W-30	None	None	Blank
	BP	Regular	6 months	Oriley	10W-30	None	None	None
	Quick Trip	Regular	Due now	Jiffy Lube	10W-30	None	None	Small oi leak in front (need to check this)
	Sinclair	Premium	26-Feb-05	Penzoil	5W-30	None	None	None
	Philips 66	Regular	2/14/2005	Havoline	5W-30	None	None	Blank
	Conoco	Regular	4/2/2004	Quaker State	10W-30	None	None	Blank
	Conoco	Regular	9/9/2004	Quaker State	10W-30	None	None	Blank

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	Quick Trip	Regular	Blank	Penzoil	10W-40	None	None	None
	Texaco	Regular	2.5 months ago	Penzoil	5W-30	None	transmission fluid drain/replaced	None
	Quick Trip	Regular	12/18/2004	Valvoline Maxlife	5W-30	None	None	None
	Quick Trip	Super	1/5/2005	Penzoil	10W-30	None	None	None - squeaky belt
	Quick Trip	Premium	Last fall	Penzoil	10W-30	None	None	None
	HyVee Gas	Regular	5 months	Havoline	10W-30	None	None	N
	Quick Trip	Regular	2 months	Sam's Wholesale	10W-30	None	carburetor rebuilt - tune up, partial motor rebuild	Carb idles too hot right now
	Sam's	Regular	3 months	Sam's Wholesale	10W-30	None	None	Leaks oil and trans fluid, runs great except when very wet may have trouble starting
Cat been replaced? - Yes, 3,000 plus miles. Reason for cat replmnt - plugged.	Shell	Regular	4 months	Quaker State	10W-30	None	None	None
	Texaco	Regular	1,000 miles	Quaker State	10W-40	None	None	If it sputters or lags give it a little gas - open drivers side door from inside
	Shell	Regular	6-8 months	Unknown	Unknown	None	None	None - squeaky speedometer cable
	Quick Trip	Regular	2 months	Kendall	"GT-1"	None	None	None
	Sinclair	Regular	5 months	Unknown	10W-40	None	None	None
Round 2 (4/4/05) and Round 1.5 (12/2/04)	Quick Trip	Regular	9/3/2004	Castrol	5W-20	None	None	Slight hesitation occasionally when shifting from 3 - 4th gear. Dealer says there is nothing wrong.
Round 2 (4/4/05), Round 1.5 Duplicate (12/17/04), and Round 1.5 (12/14/04). Non OEM Mods - Steering does not lock up.	Conoco	Regular	7/16/04	Castrol	10W-30	Blank	None	Blank
Round 1.5 (1/3/05) and Round 2 (4/2/05). Round 1.5 mileage 75,916.	Costco	Regular	10/16/04	Penzoil	10W-30	None	None	None
	Seven-11	Regular	17-Sep-04	Penzoil	10W-30	None	None	None
	Shell	Regular	1,000 miles	Mobil One Synthetic	10W-30	None	None	None
	Quick Trip	Regular	3 months	Unknown	10W-30	None	Alternator replaced	None
Dyne test done only. No PEMS precon.	Quick Trip	Regular	end of January	Castrol	10W-30	Unknown	None	None
Odometer not working, broke about 7 or 8,000 miles ago.	Quick Trip	Regular	2 weeks	Valvoline	10W-30	None	fuel injector	Blank
	Quick Trip	Regular	3,000 miles	Penzoil	10W-30	None	None	Brakes squeak
	Quick Trip	Regular	3/9/2005	Penzoil	5W-30	None	None	None
	Quick Trip	Regular	3,000 miles	10W-40	10W-40	Blank	None	None
	Philips 66	Regular	10/10/2004	Penzoil	10W-30	None	None	Blank
	Philips 66	Regular	11/30/2004	Quaker State	10W-30	None	None	None
	Sinclair	Regular	9 months	Quaker State	5W-30	None	None	Choke/accelerator may stick and engine race - just needs a quick depression of accelerator pedal to undo
	Quick Trip	Regular	2/26/2005	Texaco	10W-30	None	None	None
	Conoco	Regular	3 months	Shell	Blank	Blank	None	None
	Conoco	Regular	3 months	Shell	10W-30	None	None	10 start, turn key on, pull on top of steering wheel toward driver, runs rough. I was told it is in the transmission. They cleaned out steering column and magso from attempted theft, requires starting
	Quick Trip	Regular	7/22/2003	Valvoline	10W-30	None	None	Serpentine belt squeak, exhaust smokes a lot when first
	Seven-11	Regular	2/16/2005	Car Quest	10W-30	None	Right front axel	Low idle when starting, brakes lock if emergency brake is
	Texaco	Regular	6 months	Havolin Long Life	10W-30	None	None	
	Quick Trip	Regular	3,000 miles	Motor Craft	10W-30	None	None	None
	Unknown	Regular	3/10/2004	Valvoline	10W-30	Mare's Mystery	Timing belt, knock sensor, gaskets, plugs, etc.	I add oil 1 qt./2-3 months use oil, no leaking no smoke
Mileage at purchase? Put 3 or 4 thousand on	Quick Trip	Regular	4 months	Valvoline	10W-30	None	None	None
	Unknown	Regular	Feb-05	Quaker State	10W-30	None	Hose replacement, muffler, tail pipe	needs tune up & alignment

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Rattling reason for cat rplcmnt? Engine would not run.	Conoco	Regular	12 months	Unknown	10W-30	None	None	Clutch sometimes pops - engine runs slightly rough
	Conoco	Super	5-Mar-05	Mastercare Oil	10W-30	None	None	None
	Texaco	Regular	2,800 miles	O'Reilly	10W-30	None	carb rebuilt	None
			less than 1,000 miles					It needs some carburetor work, probably rebuilder kit
	BP	Regular		Quaker State	30HD	1 Pint STP	Rebuilt transmission	
	Philips 66	Regular	Aug-04	O'Reilly	10W-40	None	None	Blank
	Quick Trip	Regular	Unknown	Unknown	10W-30	Blank	None	Bent a-arm right front vibration while not in park and in motion
	Shell	Regular	3/16/2005	Blank	Blank	None	Rebuilt Transmission	none
	Quick Trip	Regular	August	Castrol	10W-40	None	None	Bad valve seal on #2 cylinder fouls spark plug #2 choke doesn't work on carburetor
	Costco	Regular	1,000 miles	Jiffy Lube	10W-30	None	None	None
	Philips 66	Regular	4 months	Valvoline	10W-30	None	None	oil leak under engine
	Seven-11	Regular	Jan-05	Quaker State	10W-30	None	None	Timing is slightly advanced, runs a bit rough until warm
	Philips 66	Regular	69,000	WalMart	10W-30	None	Rebuilt transmission 3/04	New joint & valve cover gasket 7/04
	Philips 66	Regular	9 months	Exxon Superflo	10W-30	None	None	Blank
	HyVee	Regular	10/26/2004	Motorcraft	10W-40	None	None	Blank
	Casey's	Regular	6/28/2004	Penzoil	10W-30	None	None	Runs rough sometimes check engine light is intermittent
	Sinclair	Regular	89,990 miles	Quaker State	5W-30	None	None	When first start, blue smoke exits exhaust - 1 short puff
	Texaco	Regular	1 year	Motorcraft	10W-30	None	None	Rough idle
	Quick Trip	Regular	6 months	Valvoline	10W-30	None	None	None
	Conoco/Philips	Regular	about 5,000 miles ago	Kendall GT-1	10W-30	Blank	None	Transmission slips a little sometimes
	Texaco	Regular	8 months	O'Reilly	10W-30	None	None	Needs tune up
	Costco	Regular	Aug-04	O'Reilly	10W-30	None	replaced transmission	Blank
	Unknown	Regular	3 months ago	Penzoil	10W-30	None	None	None
	Unknown	Regular	10-Mar-05	Penzoil	10W-30	None	None	None
	Quick Trip	Regular	September	Valvoline	10W-30	None	None	None
	Flying J	Regular	1 month	Valvoline	5W-30	None	None	None
	Conoco	Regular	22-Mar-05	Citco	10W-30	None	None	None
	BP	Regular	one year	Penzoil	10W-40	None	None	None
	Citgo	Regular	10 weeks	Kendall	Dealer bulk syn	None	None	Blank
	Quick Trip	Regular	2 months	Penzoil	30W	None	None	Sheered distributor pin
								Idles fast until gas pedal is pumped to slow it down. Gas gauge doesn't work all the time
	Cenex	Regular	2/12/2005	Advance Auto Parts Brand	10W-30	None	None	Excellent
	BP	Regular	2 months	Penzoil	10W-30	Unknown	None	Drips/used oil
Engine Rebuilt Info - Sheet missing from packet	Wood's Oil	Regular	~1,000 miles	Penzoil	10W-30	None	None	Blank
	Quick Trip	Regular	2,000 miles	Valvoline	10W-30	None	Transmission	
Gas gauge does not work but has gas in it.	Unknown	Regular	10 months	Ford	10W-30	None	None	The jeep is very seldom drove, it may set for several months
	Quick Trip	Regular	1 month	Castrol	10W-30	None	head gasket	transmission seems to slip at times
Rattling? - Minor	Casey's	Regular	9 months	Quaker State	10W-30	None	None	Blank
	Casey's	Regular	Feb-05	Penzoil	10W-30	None	None	Blank
	Unknown	Regular	2,400 miles	Quaker State	10W-30	None	None	None
	Quick Trip	Regular	2 months	Blank	Blank	None	None	None
	Casey's / Phillips 66	Regular	2,000 miles ago	Spectrum	5W-30	None	None	None
	Other	Regular	@ 106,000	Spectrum	5W-30	None	None	None
	Shell	Regular	1 month	Unknown	10W-30	None	Distributor	None

[illegible]