

Kansas City PM Characterization Study

Final Report

Appendix P

Round 2 Dynamometer PEMS

Quality Control Summary

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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EPA Contract No. GS 10F-0036K

October 27, 2006
Revised April 2008 by EPA staff



United States
Environmental Protection
Agency

EPA420-R-08-009
April 2008

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84393	3.5	3.1 to 3.5	Chrysler	300M	1999		x		x		x	Average exh flow is approx 50% higher than other vehicles with similar displacements, avg exh temp is low (120C)
84394	3.5	3.1 to 3.5	Honda	Odyssey	2000		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is low (240C)
84396	1.9	1.6 to 2.0	Ford	Escort LX	1995							
84397	5.7	5.1 to 6.0	Chevrolet	Silverado	1976		x		x		x	Average exh flow is approx 50% higher than other vehicles with similar displacements, avg exh temp is low (190C)
84398	2.3	2.1 to 2.5	Honda	Accord	2001		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is low (230C)
84399	2.2	2.1 to 2.5	Honda	Accord	1997		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is low (220C)
84401	3.3	3.1 to 3.5	Plymouth	Voyager	1998		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is low (220C)
84402	1.5	0 to 1.6	Honda	Civic	1991							
84403	3	2.6 to 3.0	Dodge	Caravan	2000		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is low (230C)
84406	1.6	1.6 to 2.0	Toyota	Corolla	1995	x					x	File is missing or contains invalid test data.
84407	2.3	2.1 to 2.5	Pontiac	Grand AM	1989		x	x	x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, dilution suspect (avg CO+CO2 = 10.3%), avg exh temp is low (200C)
84409	3.1	3.1 to 3.5	Chevrolet	Malibu	1999							
84411	1.9	1.6 to 2.0	Saturn		1996			x			x	Suspect dilution (avg CO + CO2 = 5.19%)
84412	1.6	1.6 to 2.0	Honda	Civic	1996			x			x	Suspect dilution (avg CO + CO2 = 6.54%)
84413	5.7	5.1 to 6.0	Ford	F250	1979			x	x		x	Suspect dilution : Avg CO + CO2 = 8.6%, avg exh temp is high (530C)
84414	3.8	3.5 to 4.0	Chevrolet	Impala	2003							
84415	5.9	5.1 to 6.0	Dodge	Durango	1999				x			Avg exh temp is high (490C)
84416	1.6	1.6 to 2.0	Honda	Civic	1998							
84419	3.1	3.1 to 3.5	Chevrolet	Lumina	1998							
84420	2.3	2.1 to 2.5	Honda	Accord	2000							
84421	2.2	2.1 to 2.5	Saturn	LS1	2000							
84422	4	3.5 to 4.0	Jeep	Cherokee	1998							
84424	4	3.5 to 4.0	Ford	Explorer	1995				x		x	Avg exhaust temp is high (510C)
84425	4	3.5 to 4.0	Jeep	Grand Cherokee	1995				x		x	Avg exhaust temp is high (510C)
84426	1.9	1.6 to 2.0	Saturn	SC2	2001							
84427	2.4	2.1 to 2.5	Mitsubishi	Galant	2001							
84428	3.1	3.1 to 3.5	Chevy	Malibu	1998							
84430	2.5	2.1 to 2.5	Dodge	Spirit	1990							
84431	5	4.1 to 5.0	Mercury	Grand Marquis Stat	1991			x				Suspect diltion : Avg CO + CO2 = 10.5%
84432	1.9	1.6 to 2.0	Saturn	Sedan	1999							
84433	4	3.5 to 4.0	Jeep	Wrangler	1997							
84434	3.8	3.5 to 4.0										
84436	4.3	4.1 to 5.0	Chevrolet	S-10	1995							
84437	3	2.6 to 3.0	Toyota	Camry	1994							
84438	3.1	3.1 to 3.5	Buick	Century	2001							
84439	3.8	3.5 to 4.0	Pontiac	Bonneville	1995							
84442	3	2.6 to 3.0	Toyota	Camry	1994							
84443	1.6	1.6 to 2.0	Geo	Prizm	1991							erroneous aux temp (not a data issue)
84444	2.5	2.1 to 2.5	Chevrolet	Tracker	2003							
84445	2.2	2.1 to 2.5	Saturn	Sedan	2001			x			x	Suspect diltion : Avg CO + CO2 = 7.6%, erroneous aux temp (not a data issue)
84446	3	2.6 to 3.0	Toyota	Sienna	2000							erroneous aux temp (not a data issue)
84448	3.8	3.5 to 4.0	Plymouth	Voyager	1999							erroneous aux temp (not a data issue)
84449	3.1	3.1 to 3.5	Buick	Regal	1994							erroneous aux temp (not a data issue)
84450	3.1	3.1 to 3.5	Ford	Taurus	1988				x			Avg exh temp is low (290C), erroenous aux temp (not a data issue)
84451	3.1	3.1 to 3.5	Buick	Regal	1994							erroneous aux temp (not a data issue)
84452	3	2.6 to 3.0	Ford	Taurus	1995							erroneous aux temp (not a data issue)
84453	3	2.6 to 3.0	Nissan	Maxima	1995							erroneous aux temp (not a data issue)
84455	3.8	3.5 to 4.0	Ford	Mustang	1995							erroneous aux temp (not a data issue)

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84456	3.1	3.1 to 3.5	Pontiac	Grand Prix Le	1993				x		x	Avg exhaust temp is high (550C), erroneous aux temp (not a data issue)
84457	4.6	4.1 to 5.0	Ford	Crown Victoria	1995							
84458	3	2.6 to 3.0	Ford	Aerostar	1993							erroneous aux temp (not a data issue)
84459	3	2.6 to 3.0	Ford	Aerostar	1992							
84461	3	2.6 to 3.0	Ford	Taurus	1988							
84462	3	2.6 to 3.0	Plymouth	Voyager	1989							
84463	2	1.6 to 2.0	Ford	Contour	1995							
84464	3.3	3.1 to 3.5	Dodge	Intrepid	1994							
84465	3.8	3.5 to 4.0	Chevy	Lumina LS	1994							
84467	2.3	2.1 to 2.5	Ford	Ranger	1988							
84468	3.8	3.5 to 4.0	Chevy	Lumina LS	1994							
84469	3	2.6 to 3.0	Dodge	Caravan	1989							
84470	4.5	4.1 to 5.0	Mercedes	280 SE	1973		x		x		x	Average exh flow is approx 50% higher than other vehicles with similar displacements, avg exh temp is high (560C)
84472	5	4.1 to 5.0	Chevrolet	Monte Carlo	1977				x		x	Avg exh temp is high (510C)
84473	4	3.5 to 4.0	Ford	Explorer	1996							
84474	1.5	0 to 1.6	Honda	Civic	1988							
84475	2.3	2.1 to 2.5	Ford	Tempo	1986				x			Avg exhaust temp is high (470C)
84477	4	3.5 to 4.0	Dodge	Ram	1989							
84479	3.3	3.1 to 3.5	Dodge	Caravan	1996							
84480	3	2.6 to 3.0	Ford	Taurus	1988							
84482	4.9	4.1 to 5.0	Buick	Lasabre	1979							
84483	2	1.6 to 2.0	Dodge	Neon	1996							
84484	4.9	4.1 to 5.0	Buick	Lasabre	1979				x			Avg exh temp is low (290C)
84485	4.9	4.1 to 5.0	Cadillac	Fleetwood	1991							
84487	2.2	2.1 to 2.5	Mazda	B2200	1992				x			Avg exhaust temp is high (470C)
84488	3.8	3.5 to 4.0	Buick	Lesabre	1995							
84489	2.4	2.1 to 2.5	Toyota	Truck	1987			x	x			Suspect diltion : Avg CO + CO2 = 9.7%, avg exh temp is high (470C)
84490	4.9	4.1 to 5.0	Cadillac	Fleetwood	1991							
84492	5	4.1 to 5.0	Chevy	C10 Silverado	1984							
84493	4.2	4.1 to 5.0	Ford	Freestar SEL	2004							
84494	2.3	2.1 to 2.5	Ford	Ranger XLT	1997							
84495	2.2	2.1 to 2.5	GMC	Sonoma	1996							
84497	3	2.6 to 3.0	Toyota	4Runner SR5	1995				x		x	Avg exhaust temp is high (515C)
84498	3	2.6 to 3.0	Toyota	Sienna XLE	2001							
84499	1.8	1.6 to 2.0	Acura	Integra	1995							
84500	2.4	2.1 to 2.5	Nissan	Frontier	1998							
84502	3.5	3.1 to 3.5	Chrysler	Concord	1996	x	x	x			x	File is missing or contains invalid test data.
84503	3	2.6 to 3.0	Ford	Taurus	2002							
84504	3.2	3.1 to 3.5	Chrysler	Concord LXI	2000				x			Avg exh temp is low (230C)
84505	3.3	3.1 to 3.5	Dodge	Intrepid	1993							
84507	3	2.6 to 3.0	Ford	Taurus	1988							
84508	1.5	0 to 1.6	Honda	Civic	1992							
84509	4.3	4.1 to 5.0	Chevrolet	Astrovan	1992							
84510	5.7	5.1 to 6.0	Chevy	Suburban	1994							
84512	4.4	4.1 to 5.0	Chevy	Caprice	1982							
84514	3.5	3.1 to 3.5	Chrysler	Concorde	2002				x			Avg exh temp is low (270C)
84515	2.4	2.1 to 2.5	Dodge	Stratus	1999							erroneous aux temp (not a data issue)
84517	3.3	3.1 to 3.5	Dodge	Grand Caravan	1998							erroneous aux temp (not a data issue)
84518	3.1	3.1 to 3.5	Buick	Skylark	1994							
84519	3	2.6 to 3.0	Dodge	Caravan	1992							
84520	3	2.6 to 3.0	Ford	Taurus	2001							
84521	2.2	2.1 to 2.5	Honda	Accord	1997							erroneous aux temp (not a data issue)
84522	4.3	4.1 to 5.0	Chevy	C1500	1996							

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84524	2.3	2.1 to 2.5	Isuzu	Pickup	1995							erroneous aux temp (not a data issue)
84526	4.6	4.1 to 5.0	Lincoln	Towncar	1991							
84527	5.9	5.1 to 6.0	Dodge	Ram PU	1995							
84528	4.6	4.1 to 5.0	Mercury	Grand Marquis	1994							
84529	2.5	2.1 to 2.5	Plymouth	Sundance	1992							
84531	1.6	1.6 to 2.0	Geo	Tracker	1992				X			Avg exhaust temp is high (450C)
84532	3.4	3.1 to 3.5	Pontiac	Montana	2003							
84533	5.7	5.1 to 6.0	Chevy	Suburban	1999							
84534	2.2	2.1 to 2.5	Subaru	Legacy Wagon	1993							erroneous aux temp (not a data issue)
84536	3	2.6 to 3.0	Ford	Taurus	1988							
84537	4	3.5 to 4.0	Jeep	Cherokee Sport	2000							
84538	4	3.5 to 4.0	Ford	Ranger	1998							
84539	5.7	5.1 to 6.0	Chevy	Tahoe	1996							
84541	3.3	3.1 to 3.5	Dodge	Grand Caravan	1996							
84542	3.3	3.1 to 3.5	Dodge	Grand Caravan	1996							
84543	4	3.5 to 4.0	Jeep	Cherokee Sport	2000							
84544	3	2.6 to 3.0	Ford	Taurus	1988							
84546	3.9	3.5 to 4.0	Dodge	Dakota	1999							
84547	1.8	1.6 to 2.0	Toyota	Corolla	1995							
84548	3.3	3.1 to 3.5	Dodge	Intrepid	1995							
84550	5	4.1 to 5.0	Lincoln	Town Car	1988			X				Suspect dilution : Avg CO + CO2 = 10.7%, erroneous aux temp (not a data issue)
84551	3.5	3.1 to 3.5	Isuzu	Axiom	2002							
84552	3.4	3.1 to 3.5	Olds	Silhouette	2002							
84554	4.9	4.1 to 5.0	Ford	F150	1992							
84556	3.3	3.1 to 3.5	Chrysler	Town & Country LX	2001							
84557	3.8	3.5 to 4.0	Buick	Park Avenue	2000							
84558	4.3	4.1 to 5.0	Chevy	S-10	2001							
84560	2.5	2.1 to 2.5	Dodge	Dakota	1998							
84561	5	4.1 to 5.0	Ford	Country Squire	1986			X	X			Suspect dilution : Avg CO + CO2 = 9.0%, avg exh temp is low (290C)
84562	3.7	3.5 to 4.0	Dodge	Dakota	2004							
84563	4	3.5 to 4.0	Ford	Ranger	2002							
84564	3.3	3.1 to 3.5	Dodge	Grand Caravan	1998							
84566	2.2	2.1 to 2.5	Honda	Odyssey	1995							
84567	4.9	4.1 to 5.0	Cadillac	Sedan Deville	1992							
84568	2.3	2.1 to 2.5	Ford	Ranger	1996							
84569	3	2.6 to 3.0	Ford	Taurus	1995							
84570	2.2	2.1 to 2.5	Chevrolet	S-10 Pick up	1994							
84572	2.3	2.1 to 2.5	Mercury	Topaz	1994							
84573	3.8	3.5 to 4.0	Buick	Park Avenue	1993							
84574	3.8	3.5 to 4.0	Ford	Taurus	1993							
84575	3.1	3.1 to 3.5	Chevrolet	Lumina	1994							
84577	3.8	3.5 to 4.0	Ford	Windstar	1998							
84578	3	2.6 to 3.0	Ford	Taurus	1988							
84580	3.8	3.5 to 4.0	Chrysler	Town & Country	2002		X				X	No appreciable measured exhaust flow
84581	3.1	3.1 to 3.5	Chevy	Corsica	1995							
84582	2.7	2.6 to 3.0	BMW	528e	1988							erroneous aux temp (not a data issue)
84584	2.4	2.1 to 2.5	Nissan	Pickup XE	1995							erroneous aux temp (not a data issue)
84587	3	2.6 to 3.0	Mercury	Villager	1997							erroneous aux temp (not a data issue)
84588	5.7	5.1 to 6.0	Buick	Lesabre	1978							
84589	1.9	1.6 to 2.0	Saturn	SL 2	2001							
84591	3	2.6 to 3.0	Toyota	4 Runner	1993				X			Avg exhaust temp is high (480C)
84592	5.7	5.1 to 6.0	Ford	LTD	1979							
84593	2.3	2.1 to 2.5	Honda	Accord EX	1998							
84595	2	1.6 to 2.0	Ford	Escort SE	1998							

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84596	3	2.6 to 3.0	Ford	Taurus GL	1997							
84597	2	1.6 to 2.0	Pontiac	Sunbird	1994							
84599	3	2.6 to 3.0	Toyota	Avalon	1998							
84600	4	3.5 to 4.0	Ford	Explorer	1993							
84601	3.8	3.5 to 4.0	Buick	Regal	1979							
84603	1.4	0 to 1.6	Datsun	210 Wagon	1979			x	x			Avg exhaust temp is high (450C), suspect dilution, avg CO + CO2 = 8.6%
84605	2.8	2.6 to 3.0	Datsun	280Z	1977				x		x	Avg exhaust temp is high (611C)
84606	3	2.6 to 3.0	Ford	Taurus	1988							
84608	3	2.6 to 3.0	Nissan	Quest	1996		x				x	No appreciable measured exhaust flow
84609	5	4.1 to 5.0	Buick	Regal	1978							
84611	2.5	2.1 to 2.5	Toyota	Camry	1989							
84612	4	3.5 to 4.0	Ford	Ranger XLT	2000							
84616	3.3	3.1 to 3.5	Plymouth	Voyager	1999							
84617	5.7	5.1 to 6.0	Chevy	Suburban	1997				x			Avg exh temp is low (260C)
84618	2.5	2.1 to 2.5	Plymouth	Voyager	1992				x			Avg exhaust temp is low (220C)
84620	2.3	2.1 to 2.5	Ford	Ranger XLT	1992				x			Avg exhaust temp is low (250C)
84621	3	2.6 to 3.0	Ford	Ranger	1992							
84622	2.2	2.1 to 2.5	Toyota	Camry	1999				x			Avg exhaust temp is low (220C)
84623	2.5	2.1 to 2.5	Plymouth	Acclaim	1989				x			Avg exhaust temp is low (220C)
84624	3	2.6 to 3.0	Ford	Taurus	1988							
84626	3.7	3.5 to 4.0	Dodge	Ram Pickup	1987							
84627	4.9	4.1 to 5.0	Ford	F-150	1987				x			Avg exh temp is high (520C)
84628	4.2	4.1 to 5.0	Chevy	Trail Blazer	2002							
84629	2.5	2.1 to 2.5	Acura	2.5 TL	1996							
84630	2	1.6 to 2.0	Honda	Accord SEi	1989							
84632	4.9	4.1 to 5.0	Ford	F-150	1987							
84633	2.7	2.6 to 3.0	Volvo	740 Turbo	1987							
84634	3	2.6 to 3.0	Plymouth	Voyager SE	1988							
84635	5	4.1 to 5.0	Ford	Crown Victoria LTD	1989							
84637	5	4.1 to 5.0	Oldsmobile	Cutlass	Supreme							
84638	3.8	3.5 to 4.0	Chrysler	Town & Country	1996							
84639	2.2	2.1 to 2.5	Chevy	Cavalier	1995							
84640	4	3.5 to 4.0	Ford	Explorer	1994							
84642	2.5	2.1 to 2.5	Dodge	Spirit	1989							
84643	1.9	1.6 to 2.0	Ford	Escort	1987							
84644	3.5	3.1 to 3.5	Nissan	Pathfinder	2001							
84645	2.9	2.6 to 3.0	Volvo	960	1993							
84646	2	1.6 to 2.0	Honda	Accord LXI	1988							
84648	3.9	3.5 to 4.0	Dodge	SE Dakota	1987			x				Suspect diltion : Avg CO + CO2 = 10.4%
84649	4.3	4.1 to 5.0	GMC	Sonoma	1995							
84650	3.1	3.1 to 3.5	Chevy	Lumina APV	1990							
84651	3	2.6 to 3.0	Ford	Taurus	1988							
84653	5.7	5.1 to 6.0	Chevrolet	C20 Pickup	1977				x		x	Avg exh temp is high (500C)
84654	3.3	3.1 to 3.5	Oldsmobile	Cutlass	1990							
84655	3.8	3.5 to 4.0	Buick	Park Avenue Electra	1990							
84656	3.1	3.1 to 3.5	Chevy	Lumina	1990							
84658	4.3	4.1 to 5.0	Chevy	Astrovan	1989							
84659	2.5	2.1 to 2.5	Chrysler	LeBaron	1988							
84660	3	2.6 to 3.0	Dodge	Caravan SE	1988							
84661	3.3	3.1 to 3.5	Buick	Century	1990							
84662	4.5	4.1 to 5.0	Cadillac	Eldorado	1990							
84663	2	1.6 to 2.0	Chevrolet	Corsica	1989							
84665	3	2.6 to 3.0	Toyota	Pickup	1989				x			Avg exhaust temp is high (470C)
84666	5	4.1 to 5.0	Ford	F-150	1988							

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84667	5.8	5.1 to 6.0	Ford	F250 Pickup	1982							
84668	3.8	3.5 to 4.0	Oldsmobile	Delta 88	1991							
84669	2.5	2.1 to 2.5	Dodge	Spirit	1990							
84670	2.3	2.1 to 2.5	Mercury	Topaz	1989							
84672	1.6	1.6 to 2.0	Toyota	Tercel SR5	1983			x				Suspect dilution (avg CO + CO2 = 9.83%)
84673	5	4.1 to 5.0	GMC	Vandura	1983		x		x		x	Average exh flow is > 50% higher than other vehicles with similar displacements, avg exh temp is high (630C)
84674	6.6	> 6.0	Pontiac	Firebird	1979							
84675	2.3	2.1 to 2.5	Ford	Tempo	1993							
84676	5	4.1 to 5.0	Ford	Bronco	1990							
84677	3.8	3.5 to 4.0	Buick	Park Avenue	1989							
84679	2.2	2.1 to 2.5	Toyota	Pickup	1983							
84680	5	4.1 to 5.0	Chevrolet	Cheyenne Pickup	1973							
84681	2.3	2.1 to 2.5	Ford	Tempo	1993							
84681	5	4.1 to 5.0	Ford	Tempo	1993							
84682	2.5	2.1 to 2.5	Toyota	Camry	1990							
84683	2.9	2.6 to 3.0	Ford	Ranger	1990							
84685	4.9	4.1 to 5.0	Ford	F-150	1988			x	x			Suspect dilution : Avg CO + CO2 = 9.85%, avg exh temp is high (490C)
84686	4.9	4.1 to 5.0	Ford	F-150	1986							
84687	5.7	5.1 to 6.0	Chevy	El Camino	1976				x		x	Avg exh temp is high (490C)
84688	3	2.6 to 3.0	Ford	Taurus	1993							
84689	4.3	4.1 to 5.0	GMC	Jimmy	1992			x				Suspect dilution : Avg CO + CO2 = 9.39%
84690	2.8	2.6 to 3.0	Oldsmobile	Cutlass	1989							
84692	2.8	2.6 to 3.0	Buick	Century	1988							
84693	4.9	4.1 to 5.0	Ford	F-150	1988							
84694	4.1	4.1 to 5.0	Chevrolet	C-10	1983							
84695	2.8	2.6 to 3.0	Oldsmobile	Cutlass	1989							
84696	2.4	2.1 to 2.5	Toyota	Pickup 4x4 Turbo	1987							
84697	3	2.6 to 3.0	Ford	Taurus	1988							
84699	5	4.1 to 5.0	Chevrolet	Caprice	1985							
84700	6.5	> 6.0	Ford	F-150	1978							
84701	4.9	4.1 to 5.0	Ford	F-150	1990			x				Suspect dilution : Avg CO + CO2 = 9.0%
84702	5.7	5.1 to 6.0	Chevy	G20 Van	1989							
84703	2.8	2.6 to 3.0	Chevy	Blazer 4x4	1987							
84705	3.8	3.5 to 4.0	Chevy	Malibu	1980							
84706	4.1	4.1 to 5.0	Chevrolet	Nova	1976			x	x		x	Suspect dilution : Avg CO + CO2 = 6.5%, avg exh temp is low (190C)
84707	5.7	5.1 to 6.0	Chevy	Impala	1973				x		x	Avg exh temp is high (560C)
84708	3.8	3.5 to 4.0	Dodge	Caravan ES	2003							
84709	2.3	2.1 to 2.5	Ford	Ranger XLT	1989							
84710	5	4.1 to 5.0	Chevy	Monte Carlo	1984							
84712	4.1	4.1 to 5.0	Chevrolet	Nova	1976				x			Avg exh temp is low (290C)
84713	4.3	4.1 to 5.0	Chevrolet	Blazer	1996							
84714	1.9	1.6 to 2.0	Saturn	Station Wagon	1994							
84715	2.2	2.1 to 2.5	Mazda	B2200	1988							
84717	2.4	2.1 to 2.5	Ford	Mustang	1979							
84719	3.1	3.1 to 3.5	Oldsmobile	Cutlass	1990							
84720	5	4.1 to 5.0	Chevy	Silverado 1500	1989							
84722	3.8	3.5 to 4.0	Ford	Windstar	1998							
84723	2.2	2.1 to 2.5	Chevy	Cavalier	1991							
84724	3.3	3.1 to 3.5	Oldsmobile	Cutlass Cierra	1990							
84726	3	2.6 to 3.0	Ford	Aerostar	1990							
84727	3.3	3.1 to 3.5	Ford	Granada	1982			x	x		x	Suspect diltion : Avg CO + CO2 = 9.6%, avg exh temp is high (550C)
84728	3	2.6 to 3.0	Ford	Escape	2002							
84729	2.2	2.1 to 2.5	Toyota	Camry	2001							

Run#	Disp	Disp Bin	Make	Model	Model Year	Missing data	Flow Flag	Dilution Flag	Exh Temp Flag	Ambient Temp Flag	Suspect Data	Data Review Comments
84730	4.3	4.1 to 5.0	Chevrolet	S-10 LS	1995							
84732	4.2	4.1 to 5.0	Jeep	CJ-7	1979							
84733	3.1	3.1 to 3.5	Buick	Skylark	1998							
84734	3	2.6 to 3.0	Plymouth	Voyager	1993							
84735	2	1.6 to 2.0	Honda	Accord	1988	x						File is missing or contains invalid test data.
84737	2.5	2.1 to 2.5	Chevrolet	Celebrity	1984							
84738	5.7	5.1 to 6.0	Pontiac	Grand Prix	1976							
84739	1.5	0 to 1.6	Mazda	Protégé	1998							
84740	3.8	3.5 to 4.0	Buick	LeSabre	1990							
84741	3	2.6 to 3.0	Ford	Taurus	1988							
84743	1.6	1.6 to 2.0	Mazda	Protégé	1999							
84745	1.5	0 to 1.6	Honda	Civic	1990							
84747	3.3	3.1 to 3.5	Dodge	Grand Caravan	2003							
84748	3.3	3.1 to 3.5	Dodge	Grand Caravan	2002							
84749	3	2.6 to 3.0	Toyota	Sienna LE	2001							
84751	2	1.6 to 2.0	Ford	Escort	1998							
84752	4.9	4.1 to 5.0	Ford	F 100 Ranger	1978			x				Suspect dilution : Avg CO + CO2 = 5.99%
84753	3.3	3.1 to 3.5	Dodge	Grand Caravan	2003						x	
84754	3.3	3.1 to 3.5	Plymouth	Voyager	2003							
84755	3.5	3.1 to 3.5	Honda	Odyssey	2002							
84757	4	3.5 to 4.0	Jeep	Cherokee 4x4	2001							
84758	5.7	5.1 to 6.0	Chevy	Beauville 10	1979							
84759	2	1.6 to 2.0	Ford	Focus	2005							
84760	3	2.6 to 3.0	Ford	Escape	2005							
84761	3.5	3.1 to 3.5	Kia	Sedona	2004							
84763	3.5	3.1 to 3.5	Honda	Odyssey	2003							
84765	4.3	4.1 to 5.0	Chev	Impala	1985							
84766	3.3	3.1 to 3.5	Dodge	Grand Caravan Spc	2000							
84767	2.4	2.1 to 2.5	Nissan	Frontier	1998							
84768	4.9	4.1 to 5.0	Ford	F-150 XL	1995			x				Suspect dilution : Avg CO + CO2 = 9.7%
84770	4.9	4.1 to 5.0	Ford	F-250	1995			x				Suspect dilution : Avg CO + CO2 = 10.5%
84771	4.3	4.1 to 5.0	Chev	Astro Van	1994							
84772	3.3	3.1 to 3.5	Dodge	Caravan SE	1992							
84773	3.4	3.1 to 3.5	Toyota	Forerunner	1998							
84774	3	2.6 to 3.0	Dodge	Caravan	1995							
84775	5.7	5.1 to 6.0	Chevrolet	Suburban	1997							
84777	5	4.1 to 5.0	Oldsmobile	Cutlass Supreme	1987			x				Suspect dilution : Avg CO + CO2 =10.8 %