

Populations, Activity and Emissions of Diesel Nonroad Equipment in EPA Region 7

PEMS Filter Log Appendix V

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

Prepared for EPA by
Eastern Research Group, Inc. (ERG)
EPA Contract No. EP-C-06-080

Filter ID	DRI Filter Weight (mg)	Date Rcvd	Date used	Est ID	Equipment	Ser #	Holder Position	Sequence	Test File ID	Final Status	Sample Type	Status
N/A	N/A	N/A								OK		Cassette found in grav sampler Sensors brought to PSU1. Placed with other voided filters (18, 21-24).
PEMGT001		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT002		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT003		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT004		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT005		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT006		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT007		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT008		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT009		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT010		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT011		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT012		5/18/07	5/25/07	N/A	N/A	N/A	N/A	N/A	N/A	OK	Blind Study	Used filters stored at EPA, cassettes reloaded for PSU 1
PEMGT013		6/6/07	6/15/07	2208	Deere 410B backhoe	1918	1	1	N/A	Void	Hot start	Not sent to DRI, voided filter
PEMGT014		6/6/07	6/15/07	2208	Deere 410B backhoe	918	2	2	N/A	Void	warm op	Not sent to DRI, voided filter
PEMGT015		6/6/07	6/15/07	2208	Deere 410B backhoe	918	3	3	N/A	Void	warm op	Not sent to DRI, voided filter
PEMGT016	0.856	6/6/07	6/21/07	0685	Cat 963C	2214	1	1	pp_0685_2214_070621_A.csv	Void	Cold start	Sent to DRI 6/26/07 6/8/09 review by Sensors indicates flow invalid for this filter
PEMGT017	0.594	6/6/07	6/21/07	0685	Cat 963C	2214	2	2	pp_0685_2214_070621_A.csv	Suspect	warm op	Sent to DRI 6/26/07 from data review, flows not at setpoint
PEMGT018		6/6/07	6/21/07	0685	Cat 963C	2214	3	3	pp_0685_2214_070621_A.csv	Void	warm op	Filter was in chamber 3, which was not functioning during this test - May have been exposed to exhaust, no dynamic blank, not sent to DRI, voided filter
PEMGT019	0.291	6/6/07	6/21/07	0685	Cat 963C	2214	1	4	pp_0685_2214_070621_B.csv	OK	Hot start	Sent to DRI 6/26/07
PEMGT020	0.513	6/6/07	6/21/07	0685	Cat 963C	2214	2	5	pp_0685_2214_070621_B.csv	OK	warm op	Sent to DRI 6/26/07
PEMGT021		6/6/07	6/21/07	0685	Cat 963C	2214	3	6	pp_0685_2214_070621_B.csv	Void	warm op	Filter was in chamber 3, which was not functioning during this test - May have been exposed to exhaust, no dynamic blank, not sent to DRI, voided filter
PEMGT022		6/6/07	6/26/07	0685	Kom 655 Grader	1214	1	1	N/A	Void	Hot start	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT023		6/6/07	6/26/07	0685	Kom 655 Grader	1214	2	2	N/A	Void	warm op	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT024		6/6/07	6/26/07	0685	Kom 655 Grader	1214	3	3	N/A	Void	warm op	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT025		6/11/07	6/29/07	0008	Bamford 210S backhoe	1644	1	N/A	N/A	Void	Cold start	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT026		6/11/07	6/29/07	0008	Bamford 210S backhoe	1644	2	N/A	N/A	Void	warm op	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT027		6/11/07	6/29/07	0008	Bamford 210S backhoe	1644	3	N/A	N/A	Void	warm op	Test failed, filters not sent back to DRI - cannot use as dynamic blank because they have potentially been exposed to exhaust, voided filter
PEMGT028		6/11/07	7/2/07	1688	Vermeer D16x20A	1462	1	1		Void	Hot start	Test failed, filters not sent back to DRI (considered to use as dynamic blank, but I want to wait on dynamic blanks until we get our equipment runnings and procedures underway.
PEMGT029		6/11/07	7/2/07	1688	Vermeer D16x20A	1462	2	2		Void	warm op	Test failed, filters not sent back to DRI.
PEMGT030		6/11/07	7/2/07	1688	Vermeer D16x20A	1462	3	3		Void	warm op	Test failed, filters not sent back to DRI.
PEMGT031	0.339	6/11/07	7/19/07	0603	New Holland 555E	2702	1	1	N/A, ineligible facility (shakedown test)	Void	Cold start	Successful practice test at public works, filter sent to DRI 7/25/07. Ineligible facility
PEMGT032	0.601	6/11/07	7/19/07	0603	New Holland 555E	2702	2	2	N/A, ineligible facility (shakedown test)	Void	warm op	Successful practice test at public works, filter sent to DRI 7/25/07. Ineligible facility
PEMGT033	1.156	6/11/07	7/19/07	0603	New Holland 555E	2702	3	3	N/A, ineligible facility (shakedown test)	Void	warm op	Successful practice test at public works, filter sent to DRI 7/25/07. Ineligible facility
PEMGT034	0.119	6/11/07	7/24/07	0619	Cat 953C	0968	1	1	pp_0619_0968_070724_Acorr.csv	OK	Cold start	sent to DRI 7/25/07 sent to DRI 7/25/07
PEMGT035	1.949	6/11/07	7/24/07	0619	Cat 953C	0968	2	2	pp_0619_0968_070724_Acorr.csv	Suspect	warm op	GF mass flow and MPS flow rates invalid, Sensors reports flow is constant so filter is still valid. sent to DRI 7/25/07
PEMGT036	1.315	6/11/07	7/24/07	0619	Cat 953C	0968	3	3	pp_0619_0968_070724_Acorr.csv	Suspect	warm op	GF mass flow and MPS flow rates invalid
PEMGT037	-0.005	6/11/07	7/24/07	0619	Field blank	N/A	N/A			OK	N/A	sent to DRI 7/25/07
PEMGT038	0.69	6/11/07	7/24/07	0619	Cat 953C	0968	1	4	pp_0619_0968_070724_B.csv	OK	Hot start	sent to DRI 7/25/07
PEMGT039	1.25	6/11/07	7/24/07	0619	Cat 953C	0968	2	5	pp_0619_0968_070724_B.csv	OK	warm op	sent to DRI 7/25/07
PEMGT040	2.261	6/11/07	7/24/07	0619	Cat 953C	0968	3	6	pp_0619_0968_070724_B.csv	OK	warm op	sent to DRI 7/25/07

Filter ID	DRI Filter Weight (mg)	Date Rcvd	Date used	Est ID	Equipment	Ser #	Holder Position	Sequence	Test File ID	Final Status	Sample Type	Status
PEMGT041		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT042		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT043		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT044		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT045		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT046		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT047		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT048		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT049		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT050		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT051		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT052		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
PEMGT053		6/11/07	N/A									Unused filter sent to EPA 7/27/07 at conclusion of PSU 1
Misc		N/A	N/A									15 empty URG cassetts were returned to EPA 7/27/07 at conclusion of PSU 1 (used/voided filters were discarded prior to shipment).

EPA Filter No.	Filter ID	EPA Ref Date	EPA Ref Filter #1 Dif	EPA Ref Filter #2 Dif	EPA Weigh Date	EPA Filter Weight (mg)	Date Rcvd	Rcvd From	Date used	Est ID	Ser #	Sample Type
5059951	PEMGT041	9/24/2007	0.0011	0.0022	9/24/2007	0.0470	9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	Cold Start
5059957	PEMGT042	9/24/2007	0.0011	0.0022	9/24/2007	0.1483	9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	Warm Op
5059984	PEMGT043	9/24/2007	0.0011	0.0022	9/24/2007	0.2591	9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	Warm Op
	PEMGT044						9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	VOIDED
	PEMGT045						9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	VOIDED
	PEMGT046						9/17/07	EPA (sent in trailer)	9/18/07	3858	1482	VOIDED
5059968	PEMGT047	9/24/2007	0.0011	0.0022	9/24/2007	0.1065	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Cold Start
5059965	PEMGT048	9/24/2007	0.0011	0.0022	9/24/2007	0.8174	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Warm Op
5059963	PEMGT049	9/24/2007	0.0011	0.0022	9/24/2007	0.5940	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Warm Op
5059953	PEMGT050	9/24/2007	0.0011	0.0022	9/24/2007	0.2133	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Warm Op
5059966	PEMGT051	9/24/2007	0.0011	0.0022	9/24/2007	0.1794	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Warm Op
5059964	PEMGT052	9/24/2007	0.0011	0.0022	9/24/2007	0.0360	9/17/07	EPA (sent in trailer)	9/20/07	3858	1482	Warm Op
5059971	PEMGT053	9/24/2007	0.0011	0.0022	9/24/2007	0.1225	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Cold Start
6074635	PEMGT054	9/24/2007	0.0011	0.0022	9/24/2007	0.0197	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Warm Op
6074636	PEMGT055	9/24/2007	0.0011	0.0022	9/24/2007	0.0177	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Warm Op
6074637	PEMGT056	9/24/2007	0.0011	0.0022	9/24/2007	0.2976	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Warm Op
6075303	PEMGT057	9/25/2007	0.0015	0.0014	9/25/2007	0.3511	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Warm Op
6075314	PEMGT058	9/25/2007	0.0015	0.0014	9/25/2007	0.6825	9/17/07	EPA (sent in trailer)	9/21/07	3858	5754	Warm Op
6073505	PEMGT059	9/25/2007	0.0015	0.0014	9/25/2007	0.4097	9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	Cold Start
6075306	PEMGT060	9/25/2007	0.0015	0.0014	9/25/2007	0.3182	9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	Warm Op
6075307	PEMGT061	9/25/2007	0.0015	0.0014	9/25/2007	2.2586	9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	Warm Op
6075308	PEMGT062	9/25/2007	0.0015	0.0014	9/25/2007	0.5687	9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	Hot Start
6075309	PEMGT063	9/25/2007	0.0015	0.0014	9/25/2007	1.2913	9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	Warm Op
6075310	PEMGT064						9/17/07	EPA (sent in trailer)	9/27/07	2523	0713	VOIDED
6075311	PEMGT065	9/25/2007	0.0015	0.0014	9/25/2007	0.0777	9/17/07	EPA (sent in trailer)	9/28/07	2523	6087	Cold Start
6075312	PEMGT066	9/25/2007	0.0015	0.0014	9/25/2007	0.2537	9/17/07	EPA (sent in trailer)	9/28/07	2523	6087	Warm Op
6075313	PEMGT067	9/25/2007	0.0015	0.0014	9/25/2007	0.3699	9/17/07	EPA (sent in trailer)	9/28/07	2523	6087	Warm Op
6075323	PEMGT070	10/4/2007	0.0024	0.0010	10/4/2007	0.3093	N/A	EPA	9/28/07	2523	6087	Hot Start
6075325	PEMGT071	10/4/2007	0.0024	0.0010	10/4/2007	0.8860	N/A	EPA	9/28/07	2523	6087	Warm Op
6075325	PEMGT072	10/4/2007	0.0024	0.0010	10/4/2007	0.0010	N/A	EPA	9/28/07	2523	6087	Dynamic Blank
6075326	PEMGT073	10/4/2007	0.0024	0.0010	10/4/2007	0.0064	N/A	EPA	9/28/07	2523	6087	Field Blank
6075327	PEMGT074	10/4/2007	0.0024	0.0010	10/4/2007	0.3547	N/A	EPA	10/2/07	2523	0210	Cold Start
6075328	PEMGT075	10/4/2007	0.0024	0.0010	10/4/2007	0.7385	N/A	EPA	10/2/07	2523	0210	Warm Op
6075329	PEMGT076	10/4/2007	0.0024	0.0010	10/4/2007	0.4481	N/A	EPA	10/2/07	2523	0210	Warm Op
6075330	PEMGT077	10/4/2007	0.0024	0.0010	10/4/2007	0.3532	N/A	EPA	10/2/07	2523	0210	Warm Op
6075331	PEMGT078	10/4/2007	0.0024	0.0010	10/4/2007	0.4427	N/A	EPA	10/2/07	2523	0210	Warm Op
6075332	PEMGT079	10/4/2007	0.0024	0.0010	10/4/2007	0.6674	N/A	EPA	10/2/07	2523	0210	Warm Op
6075333	PEMGT080	10/4/2007	0.0024	0.0010	10/4/2007	0.3738	N/A	EPA	10/4/07	3597	095K	Cold Start
6075335	PEMGT081	10/4/2007	0.0024	0.0010	10/4/2007	0.7551	N/A	EPA	10/4/07	3597	095K	Warm Op
6075336	PEMGT082	10/4/2007	0.0024	0.0010	10/4/2007	1.9190	N/A	EPA	10/4/07	3597	095K	Warm Op
6075337	PEMGT083	10/4/2007	0.0024	0.0010	10/4/2007	0.4045	N/A	EPA	10/4/07	3597	095K	Hot Start
6075338	PEMGT084	10/4/2007	0.0024	0.0010	10/4/2007	0.5646	N/A	EPA	10/4/07	3597	095K	Warm Op
6075339	PEMGT085	10/4/2007	0.0024	0.0010	10/4/2007	1.3704	N/A	EPA	10/4/07	3597	095K	Warm Op
5070712	PEMGT092	10/4/2007	0.0001	-0.0003	10/18/2007	0.6305	N/A	EPA	10/15/07	3858	4862	Warm Op
5070717	PEMGT097	10/4/2007	0.0001	-0.0003	10/18/2007	0.5115	N/A	EPA	10/15/07	3858	4862	Warm Op
5070718	PEMGT098	10/4/2007	0.0001	-0.0003	10/18/2007	0.4224	N/A	EPA	10/15/07	3858	4862	2 Hot Starts
5070719	PEMGT099	10/4/2007	0.0001	-0.0003	10/18/2007	0.5597	N/A	EPA	10/15/07	3858	4862	Warm op, Hot Start
5070720	PEMGT100	10/4/2007	0.0001	-0.0003	10/18/2007	0.3678	N/A	EPA	10/15/07	3858	4862	Warm Op
5070721	PEMGT101	10/4/2007	0.0001	-0.0003	10/18/2007	0.1961	N/A	EPA	10/15/07	3858	4862	Cold Start
6075321	6075321	10/12/2007	0.0029	0.0020	10/12/2007	1.4610	N/A	EPA	10/9/07	3597	0726	Warm Op
6075317	6075317	10/12/2007	0.0029	0.0020	10/12/2007	1.9809	N/A	EPA	10/9/07	3597	0726	Warm Op
5070732	5070732	10/12/2007	0.0029	0.0020	10/12/2007	0.8143	N/A	EPA	10/9/07	3597	0726	Cold Start
6075316	6075316	10/12/2007	0.0029	0.0020	10/12/2007	0.2704	N/A	EPA	10/9/07	3597	0726	Warm Op
6075318	6075318	10/12/2007	0.0029	0.0020	10/12/2007	0.3870	N/A	EPA	10/9/07	3597	0726	Warm Op
5070735	5070735	10/12/2007	0.0029	0.0020	10/12/2007	1.1125	N/A	EPA	10/9/07	3597	0726	Warm Op
5070729	5070729	10/15/2007	0.0029	0.0020	10/15/2007	0.4199	N/A	EPA	10/11/07	2745	1190	Warm Op

EPA Filter No.	Filter ID	EPA Ref Date	EPA Ref Filter #1 Dif	EPA Ref Filter #2 Dif	EPA Weigh Date	EPA Filter Weight (mg)	Date Rcvd	Rcvd From	Date used	Est ID	Ser #	Sample Type
6075315	6075315	10/15/2007	0.0029	0.0020	10/15/2007	0.3146	N/A	EPA	10/11/07	2745	1190	Cold Start
6075319	6075319	10/15/2007	0.0029	0.0020	10/15/2007	0.2882	N/A	EPA	10/11/07	2745	1190	Warm Op
5070734	5070734	10/15/2007	0.0029	0.0020	10/15/2007	0.2272	N/A	EPA	10/11/07	2745	1190	Warm Op
5070731	5070731	10/15/2007	0.0029	0.0020	10/15/2007	0.1079	N/A	EPA	10/11/07	2745	1190	Warm Op
5070733	5070733	10/15/2007	0.0029	0.0020	10/15/2007	0.2094	N/A	EPA	10/11/07	2745	1190	Warm Op
5070730	5070730	10/15/2007	0.0029	0.0020	10/15/2007	0.0273	N/A	EPA	10/13/07	3858	4862	Dynamic Blank
	5070737						N/A	EPA	10/13/07	3858	4862	VOIDED
5070701	PEMGT110	11/8/2007	0.0031	0.0007	11/8/2007	0.0829	N/A	EPA	10/24/07	3597	4734	Cold Start
5070702	PEMGT111	11/8/2007	0.0031	0.0007	11/8/2007	0.0547	N/A	EPA	10/24/07	3597	4734	Warm Op
5070703	PEMGT112	11/8/2007	0.0031	0.0007	11/8/2007	0.0768	N/A	EPA	10/24/07	3597	4734	Warm Op
5070704	PEMGT113	11/8/2007	0.0031	0.0007	11/8/2007	0.1885	N/A	EPA	10/24/07	3597	4734	Hot Start
5070705	PEMGT114	11/8/2007	0.0031	0.0007	11/8/2007	0.0792	N/A	EPA	10/24/07	3597	4734	Warm Op
5070706	PEMGT115	11/8/2007	0.0031	0.0007	11/8/2007	0.0785	N/A	EPA	10/24/07	3597	4734	Warm Op
5070707	PEMGT116	11/8/2007	0.0031	0.0007	11/8/2007	0.0099	N/A	EPA	10/24/07	3597	4734	Field Blank
6075342	PEMGT117	11/8/2007	0.0031	0.0007	11/8/2007	0.4064	N/A	EPA	10/27/07	3597	9706	Cold Start
6075343	PEMGT118	11/8/2007	0.0031	0.0007	11/8/2007	0.0598	N/A	EPA	10/27/07	3597	9706	Warm Op
6075344	PEMGT119	11/8/2007	0.0031	0.0007	11/8/2007	0.7554	N/A	EPA	10/27/07	3597	9706	Warm Op
6075345	PEMGT120	11/8/2007	0.0031	0.0007	11/8/2007	0.0196	N/A	EPA	10/27/07	3597	9706	Hot Start
6075346	PEMGT121	11/8/2007	0.0031	0.0007	11/8/2007	0.0020	N/A	EPA	10/27/07	3597	9706	Dynamic Blank
7048945	PEMGT122	11/8/2007	0.0031	0.0007	11/8/2007	0.2385	N/A	EPA	10/27/07	3597	9706	Warm Op
7048945	PEMGT123	11/8/2007	0.0031	0.0007	11/8/2007	0.0097	N/A	EPA	10/27/07	3597	9706	Field Blank
7048946	PEMGT124	11/8/2007	0.0031	0.0007	11/8/2007	0.0981	N/A	EPA	10/27/07	3597	9706	Hot Start
7048947	PEMGT125	11/8/2007	0.0031	0.0007	11/8/2007	0.1659	N/A	EPA	10/27/07	3597	9706	Warm Op
7048948	PEMGT126	11/8/2007	0.0031	0.0007	11/8/2007	0.5080	N/A	EPA	10/27/07	3597	9706	Warm Op

EPA Filter No.	Filter ID	Holder ID	Sequence	Test File ID	Final Status	Status
5059951	PEMGT041	1	1	pp_3858_1482_Test2.csv	OK	
5059957	PEMGT042	2	2	pp_3858_1482_Test2.csv	OK	
5059984	PEMGT043	3	3	pp_3858_1482_Test2.csv	OK	
	PEMGT044	1	4		Void	Voided. Filter was loaded into PEMS, but possibly exposed to exhaust.
	PEMGT045	2	5		Void	Voided. Filter was loaded into PEMS, but possibly exposed to exhaust.
	PEMGT046	3	6		Void	Voided. Filter was loaded into PEMS, but possibly exposed to exhaust.
5059968	PEMGT047	1	1	pp_3858_1482_1_Test1.csv	ok	
5059965	PEMGT048	2	2	pp_3858_1482_1_Test1.csv	ok	
5059963	PEMGT049	3	3	pp_3858_1482_1_Test1.csv	ok	
5059953	PEMGT050	1	4	pp_3858_1482_Test2.csv	ok	
5059966	PEMGT051	2	5	pp_3858_1482_Test2.csv	ok	
5059964	PEMGT052	3	6	pp_3858_1482_Test2.csv	ok	
5059971	PEMGT053	1	1	pp_3858_5754_Test1.csv	OK	
6074635	PEMGT054	2	2	pp_3858_5754_Test1.csv	Void	all idle, and MPS sample flow zero at idle (wrong setting), filter voided
6074636	PEMGT055	3	3	pp_3858_5754_Test1.csv	Void	all idle, and MPS sample flow zero at idle (wrong setting), filter voided
6074637	PEMGT056	1	4	pp_3858_5754_Test2.csv	OK	
6075303	PEMGT057	2	5	pp_3858_5754_Test2.csv	OK	
6075314	PEMGT058	3	6	pp_3858_5754_Test2.csv	OK	
6073505	PEMGT059	1	1	pp_2523_0713a_Test1.csv	OK	Mark on filter where PM removed
6075306	PEMGT060	2	2	pp_2523_0713a_Test1.csv	OK	
6075307	PEMGT061	3	3	pp_2523_0713a_Test1.csv	OK	
6075308	PEMGT062	1	4	pp_2523_0713b_Test1.csv	OK	
6075309	PEMGT063	2	5	pp_2523_0713b_Test1.csv	OK	Probably not full 20 minutes
6075310	PEMGT064	3	6	pp_2523_0713b_Test1.csv	Void	
6075311	PEMGT065	1	1	pp_2523_6087_Test1.csv	OK	
6075312	PEMGT066	2	2	pp_2523_6087_Test1.csv	OK	
6075313	PEMGT067	3	3	pp_2523_6087_Test1.csv	OK	
6075323	PEMGT070	1	4	pp_2523_6087_Test2.csv	OK	
6075325	PEMGT071	2	5	pp_2523_6087_Test2.csv	OK	
6075325	PEMGT072	3	6	pp_2523_6087_Test2.csv	OK	
6075326	PEMGT073	N/A	N/A	N/A	OK	
6075327	PEMGT074	1	1	2523_0210_Test 1.csv	OK	
6075328	PEMGT075	2	2	2523_0210_Test 1.csv	OK	
6075329	PEMGT076	3	3	2523_0210_Test 1.csv	OK	
6075330	PEMGT077	1	4	2523_0210_Test 2.csv	OK	
6075331	PEMGT078	2	5	2523_0210_Test 2.csv	OK	
6075332	PEMGT079	3	6	2523_0210_Test 2.csv	OK	
6075333	PEMGT080	1	1	pp_3597_095k_Test1.csv	OK	
6075335	PEMGT081	2	2	pp_3597_095k_Test1.csv	OK	
6075336	PEMGT082	3	3	pp_3597_095k_Test1.csv	OK	
6075337	PEMGT083	2	5	Missing test file	OK	No test file available for 2nd test.
6075338	PEMGT084	1	4	Missing test file	OK	No test file available for 2nd test.
6075339	PEMGT085	3	6	Missing test file	OK	No test file available for 2nd test.
5070712	PEMGT092	3	6	pp_3858_4862_2_Test4.csv	OK	
5070717	PEMGT097	2	5	pp_3858_4862_2_Test4.csv	OK	
5070718	PEMGT098	1	4	pp_3858_4862_2_Test4.csv	OK	
5070719	PEMGT099	3	3	pp_3858_4862_2_Test1.csv	OK	
5070720	PEMGT100	2	2	pp_3858_4862_2_Test1.csv	OK	
5070721	PEMGT101	1	1	pp_3858_4862_2_Test1.csv	OK	
6075321	6075321	3	3	pp_3597_0726a_Test1.csv	OK	
6075317	6075317	2	2	pp_3597_0726a_Test1.csv	OK	
5070732	5070732	1	1	pp_3597_0726a_Test1.csv	Void	Review of data file shows this filter wasn't sampled
6075316	6075316	1	4	pp_3597_0726b_Test1.csv	Suspect	filter suspect because equip air filter clogged during test, smoking and too rich.
6075318	6075318	2	5	pp_3597_0726b_Test1.csv	Suspect	filter suspect because equip air filter clogged during test, smoking and too rich.
5070735	5070735	3	6	pp_3597_0726b_Test1.csv	Suspect	filter suspect because equip air filter clogged during test, smoking and too rich.
5070729	5070729	3	3	pp_2745_1190_Test1.csv	OK	

EPA Filter No.	Filter ID	Holder ID	Sequence	Test File ID	Final Status	Status
6075315	6075315	1	1	pp_2745_1190_Test1.csv	OK	
6075319	6075319	2	2	pp_2745_1190_Test1.csv	OK	
5070734	5070734	1	4	pp_2745_1190_Test3.csv	OK	
5070731	5070731	2	5	pp_2745_1190_Test3.csv	OK	
5070733	5070733	3	6	pp_2745_1190_Test3.csv	OK	
5070730	5070730	1	1	N/A	OK	No sample was drawn through this filter.
	5070737	2		N/A	Void	Voided and then used to test system functionality.
5070701	PEMGT110	1	1	pp_3597-4734_Test1.csv	OK	
5070702	PEMGT111	2	2	pp_3597-4734_Test1.csv	OK	
5070703	PEMGT112	3	3	pp_3597-4734_Test1.csv	OK	
5070704	PEMGT113	1	4	pp_3597-4734_Test2.csv	OK	
5070705	PEMGT114	2	5	pp_3597-4734_Test2.csv	OK	
5070706	PEMGT115	3	6	pp_3597-4734_Test2.csv	OK	
5070707	PEMGT116	N/A	N/A	N/A	OK	
6075342	PEMGT117	1	1	pp_3597_9706_Test1.csv	OK	
6075343	PEMGT118	2	2	pp_3597_9706_Test1.csv	OK	
6075344	PEMGT119	3	3	pp_3597_9706_Test1.csv	OK	
6075345	PEMGT120	1	4	pp_3597_9706_Test2.csv	OK	
6075346	PEMGT121	2	5	pp_3597_9706_Test2.csv	OK	No sample was drawn through this filter.
7048945	PEMGT122	3	6	pp_3597_9706_Test2.csv	OK	
7048945	PEMGT123	N/A	N/A	N/A	OK	
7048946	PEMGT124	1	7	pp_3597_9706_Test3.csv	OK	
7048947	PEMGT125	2	8	pp_3597_9706_Test3.csv	OK	
7048948	PEMGT126	3	9	pp_3597_9706_Test3.csv	OK	

Filter ID	PM (mg)	Date Rcvd	From	Date used	Est ID	ipr	Ser #	Sample Type	Holder ID	Sequence	Test File ID	Final Status	Status
This is an example. List type of test (cold start, hot start, warm operation), and filter holder # (holder 1, 2, or 3)													
Example		9/17/07	ant ii	9/21/07	4656	0B	8465	Cold Start	1	N/A			
Example		9/17/07	ant ii	9/21/07	4656	0B	8465	Warm Op	2	N/A			
Example		9/17/07	ant ii	9/23/07	4656	J B	N/A	Field Blank	N/A	N/A			Field blanks for 5% of filters used
Dynamic blanks for 5% of filters used. Note that holder ID is populated for dynamic blank, since this goes in the holder.													
Example		9/17/07	ant ii	9/23/07	4656	nic	N/A	Field Blank	2	N/A			
8004430	0.2211	7/21/08	ant ii	7/23/08	8925	k D	2466	Cold Start	1	1	8925-2466a	OK	Shipped to EPA 7/28
8004431	1.0260	7/21/08	ant ii	7/23/08	8925	k D	2466	Warm Op	2	2	8925-2466a	OK	Shipped to EPA 7/28
8004432	1.3849	7/21/08	ant ii	7/23/08	8925	k D	2466	Warm Op (Void)	3	3	8925-2466a	Void, MPS failed during this filter	Shipped to EPA 7/28
8004433	0.5569	7/21/08	ant ii	7/23/08	8925	k D	2466	Hot Start	1	4	8925_2466b	OK	Shipped to EPA 7/28
8004434	0.9956	7/21/08	ant ii	7/23/08	8925	k D	2466	Warm Op	2	5	8925_2466b	OK	Shipped to EPA 7/28
8004435	1.3399	7/21/08	ant ii	7/23/08	8925	k D	2466	Warm Op	3	6	8925_2466b	OK	Shipped to EPA 7/28
Loaded in PEMS 7/25 for test that was aborted 7/28. Resident in filter assembly since 7/25. Ran PEMS stress testing (on Sensors truck) with this filter still installed. White color when retrieved. Shipped to EPA 8/11/08.													
8004436	0.0075	7/21/08	ant ii	7/30/08	N/A	JRS	N/A	Dynamic blank	1	1	N/A	OK	
Loaded in PEMS on 7/25 for test that was aborted 7/28. Resident in PEMS since 7/25. Ran PEMS stress testing 7/30 with this filter still installed. White color when retrieved. Shipped to EPA 8/11/08.													
8004437	0.0079	7/21/08	ant ii	7/30/08	N/A	JRS	N/A	Dynamic blank	2	2	N/A	OK	
Used for PEMS stress testing, but appeared darker than the other filters, suspected exhaust contamination. voided. Shipped holder to EPA 8/11/08.													
8004438		7/21/08	ant ii	7/30/08	N/A	JRS	N/A	VOID	3	3	N/A	Voided	
8004439	0.0048	7/21/08	ant ii	7/30/08	N/A	N/A	N/A	Field Blank	N/A	N/A	N/A	ok	Shipped to EPA 8/11/08
8004440	0.0955	7/21/08	ant ii	7/31/08	0229	JAVI	3781	Cold Start	1	1	0029_3781	OK	Shipped to EPA 8/11/08
8004441	0.0946	7/21/08	ant ii	7/31/08	0229	JAVI	3781	Warm Op	2	2	0029_3781	OK	Shipped to EPA 8/11/08
8004442	0.2019	7/21/08	ant ii	7/31/08	0229	JAVI	3781	Warm Op	3	3	0029_3781	OK	Shipped to EPA 8/11/08
8004443	0.1961	7/21/08	ant ii	8/1/08	0229	ckh	0045	Cold Start	1	1	0229_0045	OK	Shipped to EPA 8/11/08
8004444	0.1192	7/21/08	ant ii	8/1/08	0229	ckh	0045	Warm Op	2	2	0229_0045	OK	Shipped to EPA 8/11/08
8004445	0.2206	7/21/08	ant ii	8/1/08	0229	ckh	0045	Warm Op	3	3	0229_0045	OK	Shipped to EPA 8/11/08
8004446	0.0773	7/21/08	ant ii	8/5/08	9960	ted	6086	Cold Start	1	1	9960_6086a	ok	Shipped to EPA 8/11/08
8004447	0.1193	7/21/08	ant ii	8/5/08	9960	ted	6086	Warm Op	2	2	9960_6086a	ok	Shipped to EPA 8/11/08
8004448	0.1663	7/21/08	ant ii	8/5/08	9960	ted	6086	Warm Op	3	3	9960_6086a	ok	Shipped to EPA 8/11/08
8004449	0.3252	7/21/08	ant ii	8/5/08	9960	ted	6086	Warm Op	2	4	9960_6086b	ok	Shipped to EPA 8/11/08
8004450	0.1536	7/21/08	ant ii	8/5/08	9960	ted	6086	Warm Op	3	5	9960_6086b	ok	Shipped to EPA 8/11/08
800433	0.7688	8/5/08	EPA	8/6/08	9960	JAVI	5674	Cold Start	1	1	9960_5674a	ok	Shipped to EPA 8/11/08
800434	0.3694	8/5/08	EPA	8/6/08	9960	JAVI	5674	Warm Op	2	2	9960_5674a	ok	Shipped to EPA 8/11/08
800435	0.4622	8/5/08	EPA	8/6/08	9960	JAVI	5674	Warm Op	3	3	9960_5674a	ok	Shipped to EPA 8/11/08
800436	0.1468	8/5/08	EPA	8/6/08	9960	JAVI	5674	Warm Op	1	4	9960_5674b	ok	Shipped to EPA 8/11/08
800437	0.0422	8/5/08	EPA	8/6/08	9960	JAVI	5674	Warm Op	2	5	9960_5674b	ok	Shipped to EPA 8/11/08
800438	0.0238	8/5/08	EPA	8/6/08	9960	JAVI	5674	Warm Op	3	6	9960_5674b	ok	Shipped to EPA 8/11/08
800439		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	1	1	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800440		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	2	2	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800441		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	3	3	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800442	0.2793	8/5/08	EPA	8/5/08	9960	ted	6086	Warm Op	1	6	9960_6086c	ok	Shipped to EPA 8/11/08
800443	0.1788	8/5/08	EPA	8/5/08	9960	ted	6086	Warm Op	2	7	9960_6086c	ok	Shipped to EPA 8/11/08
800444	0.5447	8/5/08	EPA	8/5/08	9960	ted	6086	Warm Op	3	8	9960_6086c	ok	Shipped to EPA 8/11/08
800445		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	1	4	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800446		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	2	5	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800447		8/5/08	EPA	8/12/08	8391	JAVI	3333	Void	3	6	8391_3333_1	Void	Filter discarded, holder shipped to EPA on 8/15/08
800448		8/5/08	EPA	8/13/2008	8391	JAVI	3333	Void	1	1	8391_3333_2	Void	Filter discarded, holder shipped to EPA on 8/15/08
800449		8/5/08	EPA	8/13/2008	8391	JAVI	3333	Void	2	2	8391_3333_2	Void	Filter discarded, holder shipped to EPA on 8/15/08
800450		8/5/08	EPA	8/13/2008	8391	JAVI	3333	Void	3	3	8391_3333_2	Void	Filter discarded, holder shipped to EPA on 8/15/08
8001532		8/6/08	EPA	8/13/2008	8391	JAVI	3333	Void	1	4	8391_3333_2	Void	Filter discarded; Shipped 8/27/08.
8001533		8/6/08	EPA	8/13/2008	8391	JAVI	3333	Void	2	5	8391_3333_2	Void	Filter discarded; Shipped 8/27/08.
8001534		8/6/08	EPA	8/13/2008	8391	JAVI	3333	Void	3	6	8391_3333_2	Void	Filter discarded; Shipped 8/27/08.

Filter ID	PM (mg)	Date Rcvd	From	Date used	Est ID	ipr	Ser #	Sample Type	Holder ID	Sequence	Test File ID	Final Status	Status
8001536		8/6/08	EPA	8/25/08	8418	jav	0961	Cold Start	1	1	8418_0961	ok	1st filter OK (exhaust was cool). Shipped 8/27/08.
8001537		8/6/08	EPA	8/25/08	8418	jav	0961	VOID	2	2	8418_0961	void	Grav system plugged; see test notes. Shipped 8/27/08.
8001538		8/6/08	EPA	8/25/08	8418	jav	0961	VOID	3	3	8418_0961	void	Grav system plugged; see test notes. Shipped 8/27/08.
8001539		8/6/08	EPA	8/26/08	8418	oat	0377	VOID	1	1	118_0377_2 (no dat	void	Grav system failure, flow not controlled, filter discarded. See notes. Shipped 8/27/08.
8001540	0.8444	8/6/08	EPA	8/19/08	8418	oat	0097	Cold Start	1	1	8418_0097_2	ok	Shipped to EPA 8/20/08
8001541	0.4918	8/6/08	EPA	8/18/08	8418	oat	0097	Cold Start	1	1	8418_0097_1	ok	Shipped to EPA 8/20/08
8001542		8/6/08	EPA	8/26/08	8418	oat	0377	VOID	2	2	118_0377_2 (no dat	void	Grav system failure, flow not controlled, filter discarded. See notes. Shipped 8/27/08.
8001543		8/6/08	EPA	8/22/08	8418	oat	0377	Cold Start - void	1	1	8418_0377_1	Void, MPS failed during this filter	Shipped 8/27/08
8001544		8/6/08	EPA	8/26/08	8418	oat	0377	VOID	3	3	118_0377_2 (no dat	void	Grav system failure, flow not controlled, filter discarded. See notes. Shipped 8/27/08.
8001545	1.6293	8/6/08	EPA	8/19/08	8418	oat	0097	Warm Op	2	2	8418_0097_2	ok	Shipped to EPA 8/20/08
8001546	1.9527	8/6/08	EPA	8/19/08	8418	oat	0097	Warm Op	3	3	8418_0097_2	ok	Shipped to EPA 8/20/08 EPA lab comment "PM out of filter"
8001547		8/6/08	EPA	8/22/08	8418	oat	0377	Dynamic blank	2	2	8418_0377_1	ok	Blank due to Grav unit failure in mid test; Shipped 8/27/08.
8001548	1.5257	8/6/08	EPA	8/18/08	8418	oat	0097	Warm Op-void	2	2	8418_0097_1	Void - MPS failed during filter	Shipped to EPA 8/20/08
8001549		8/6/08	EPA	8/22/08	8418	oat	0377	Dynamic blank	3	3	8418_0377_1	OK	Blank due to Grav unit failure in mid test; Shipped 8/27/08.
8001550	0.0000	8/6/08	EPA	8/18/08	8418	oat	0097	Dynamic blank	3	3	8418_0097_1	OK	Shipped to EPA 8/20/08
8000032	0.7425	8/20/08	EPA	9/30/08	9272	jav	3481	Cold Start	1	1	9272_3481a	OK	Sent with Tim and Chris, 10/2/08
8000033	0.7829	8/20/08	EPA	9/30/08	9272	jav	3481	Warm Op	2	2	9272_3481a	OK	Sent with Tim and Chris, 10/2/08
8000034	0.9472	8/20/08	EPA	9/30/08	9272	jav	3481	Warm Op	3	3	9272_3481a	OK	Sent with Tim and Chris, 10/2/08
8000035	0.5981	8/20/08	EPA	10/6/08	9272	jav	0853	Cold Start	1	1	9272_0853	OK	In field
8000037	0.4059	8/20/08	EPA	10/6/08	9272	jav	0853	Warm Op w/Hot star	2	2	9272_0853	OK	In field
8000038	0.7079	8/20/08	EPA	10/6/08	9272	jav	0853	Warm Op	3	3	9272_0853	OK	In field
8000039	0.0233	8/20/08	EPA	10/6/08	9272	jav	0853	Dynamic blank	2	5	9272_0853A	ok	Loaded into Grav System 10/6/08, sampler failed, no exhaust exposure
8000040	0.0993	8/20/08	EPA	10/9/08	0062	je l	0748	Cold Start	1	1	0062_0748	1st - OK	Lori to send 10/13/08
8000041	0.2674	8/20/08	EPA	10/9/08	0062	je l	0748	Warm Op	2	2	0062_0748	2nd - OK	Lori to send 10/13/08
8000042	0.0708	8/20/08	EPA	10/6/08	9272	jav	0853	Dynamic blank	1	4	9272_0853A	ok	Loaded into Grav System 10/6/08, sampler failed, no exhaust exposure
8000043	0.0627	8/20/08	EPA	10/9/08	0062	je l	0748	Dynamic blank - void	3	9	0062_0748A	9th - VOID (touched)	Filter accidentally touched prior to use - Put in sampler anyway, grav sampler failed, filter not exposed to exhaust
8000044	0.0179	8/20/08	EPA	10/6/08	9272	jav	0853	Dynamic blank	3	6	9272_0853A	ok	Loaded into Grav System 10/6/08, sampler failed, no exhaust exposure
8000045	0.2811	8/20/08	EPA	9/23/08	0349	k D	1836	Cold Start	1	1	0349_1836	ok	Sent with Carl 9/26
8000046	0.2764	8/20/08	EPA	9/23/08	0349	k D	1836	Warm Op	2	2	0349_1836	ok	Sent with Carl 9/26
8000047	1.3757	8/20/08	EPA	9/23/08	0349	k D	1836	Warm Op	3	3	0349_1836	ok	Sent with Carl 9/26
8000048	0.3625	8/20/08	EPA	9/24/08	0349	ExC	2422	Cold Start	1	1	0349_2422	OK	Sent with Carl 9/26
8000049	0.3057	8/20/08	EPA	9/24/08	0349	ExC	2422	Warm Op	2	2	0349_2422	OK	Sent with Carl 9/26
8000050	0.0876	8/20/08	EPA	9/24/08	0349	ExC	2422	Warm Op	3	3	0349_2422	OK	Sent with Carl 9/26
7078351	0.3897	9/22/08	EPA	10/9/08	0062	je l	0748	Warm Op	3	3	0062_0748	3rd - OK	Lori to send 10/13/08
7078352	0.1112	9/22/08	EPA	10/9/08	0062	je l	0748	Hot Start	1	4	0062_0748	4th - OK	Lori to send 10/13/08
7078353	0.2520	9/22/08	EPA	10/9/08	0062	je l	0748	Warm Op	2	5	0062_0748	5th - OK	Lori to send 10/13/08
7078354	0.1942	9/22/08	EPA	10/9/08	0062	je l	0748	Warm Op	3	6	0062_0748	6th - OK	Lori to send 10/13/08
7078355	0.2179	9/22/08	EPA	10/9/08	0062	je l	0748	Hot Start	1	7	0062_0748A	7th - OK	Lori to send 10/13/08
7078356	1.2157	9/22/08	EPA	10/9/08	0062	je l	0748	Warm Op - void	2	8	0062_0748A	8th - Void, only 13 seconds on filter	Lori to send 10/13/08 - Grav sampler lost communication during this filter, not a full 20 minutes but should still be valid
7078357	0.4983	9/22/08	EPA	9/30/08	9272	jav	3481	Hot Start	1	4	9272_3481b	OK	Sent with Tim and Chris, 10/2/08

[illegible]