

Test Monitoring Center

@ Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA

http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM: 14-014

DATE: May 22, 2014

TO: Yong-Li McFarland,

Chairwoman, Engine Oil Filterability Test Surveillance Panel

FROM: Michael T. Kasimirsky Milal J. Kasimisky

SUBJECT: EOWT Testing from October 1, 2013 through March 31, 2014

A total of 799 EOWT tests were reported to the Test Monitoring Center during the report period from October 1, 2013 through March 31, 2014.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0414.doc/mem14-014.mtk.doc

cc: F. M. Farber J. A. Clark

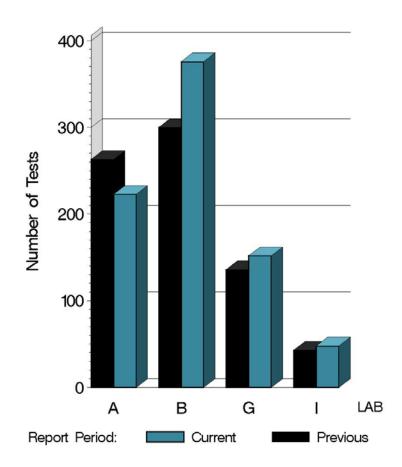
EOWT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2014.pdf

Distribution: email

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD





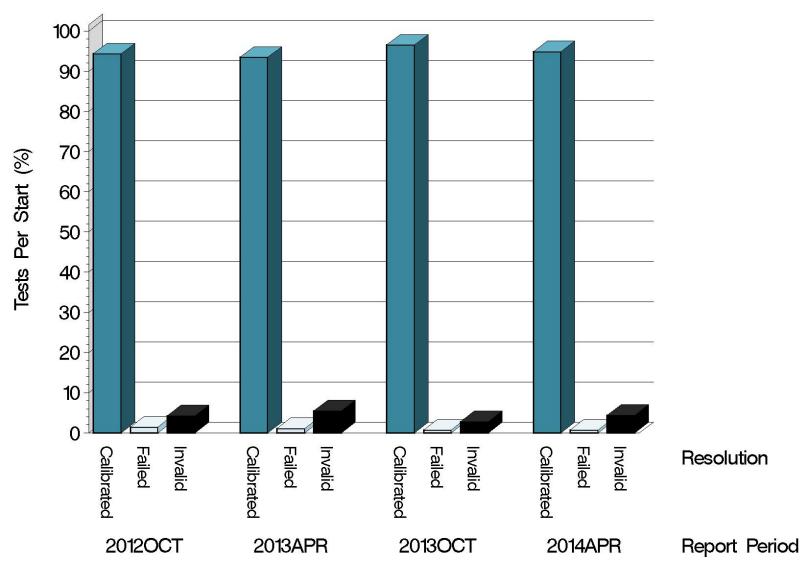


Test Distribution by Oil and Validity

		By Oil			By Treat Level				Totals		
		77-1	77-2	78-1	78-2	0.6	1.0	2.0	3.0	This Period	Last Period
Accepted for Calibration	AC	102	310	4	342	189	190	190	189	758	715
Acceptable Donated Tests	NI	0	0	0	0	0	0	0	0	0	16
Unacceptable Donated Tests	MI	0	0	0	0	0	0	0	0	0	0
Rejected Tests	ОС	0	3	0	3	1	1	2	2	6	5
Operationally Invalid (lab)	LC	2	0	0	0	0	0	1	1	2	2
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0	0	0
Aborted Calibration	XC	5	4	0	24	8	8	8	9	33	3
Total		109	317	4	369	198	199	201	201	799	741



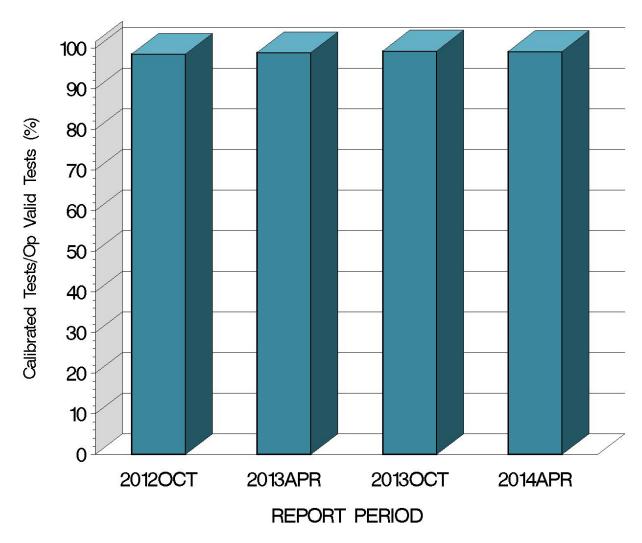
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA







CAUSES FOR LOST TESTS

			Oil			Validity			Loss Rate			
Lab	Cause		77-1	77-2	78-1	78-2	LC	RC	XC	Lost	Starts	%
Α	Sample L	.eaked	1	0	0	0	0	0	1	1	223	0.4%
В	Sample S	mple Spill		4	0	0	0	0	4	4	276	1%
Ь	Sample F	Prep Error	4	0	0	16	0	0	20	20 376		5%
	Sample F	Prep Error	0	0	0	4	0	0	4	4	150	3%
G	Time Erro	or	0	0	0	4	0	0	4	4 152		2%
I	Sample F	Prep Error	2	0	0	0	2	0	0	2	48	4%
		Lost	7	4	0	24	2	0	33			<u>. </u>
		Starts	109	317	4	369	799	799	799			
		%	6%	1%	0%	6%	.2%	0%	4%			

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Lost tests are calibration attempts that were either aborted or operationally invalid





Average Δ/s By Laboratory						
Treat Level	Lab	n	CFAYI			
0.6	Α	55	-0.118			
	В	88	0.178			
	G	36	0.615			
	I	11	1.259			
	Industry	190	0.238			
1.0	Α	56	-0.205			
	В	88	-0.086			
	G	36	0.756			
	I	11	1.124			
	Industry	191	0.108			
2.0	А	56	-0.404			
	В	88	-0.023			
	G	36	0.857			
	I	12	1.366			
	Industry	192	0.117			
3.0	А	55	-0.220			
	В	88	-0.062			
	G	36	0.931			
	I	12	1.343			
	Industry	191	0.168			



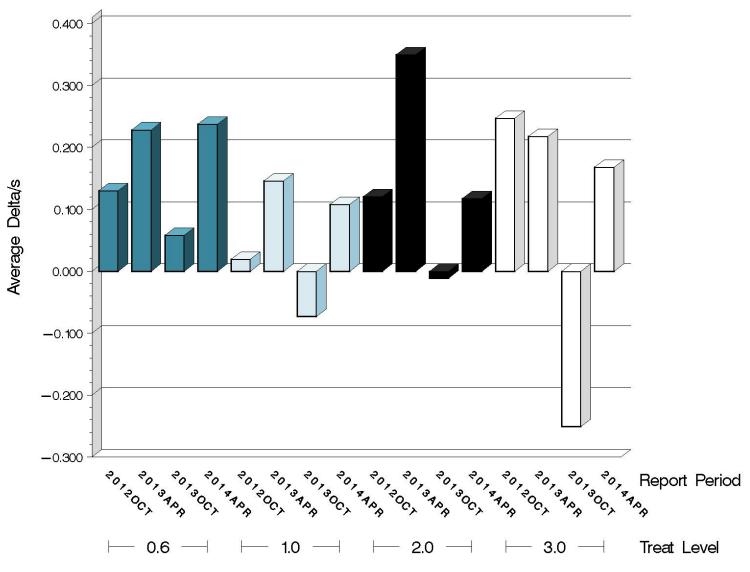
Individual test results can be found on the TMC Web Page at the following link:

ftp://ftp.astmtmc.cmu.edu/refdata/bench/eowt/data/





AVERAGE DELTA/S





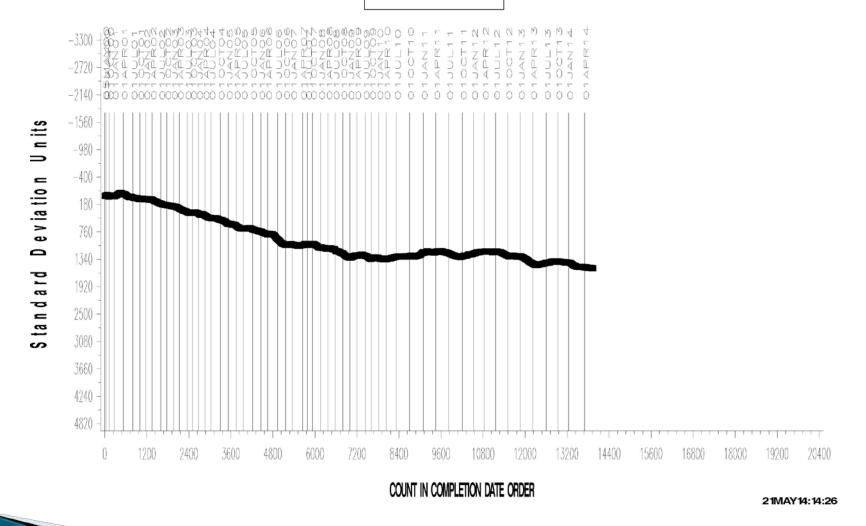


EOWT INDUSTRY OPERATIONALLY VALID DATA



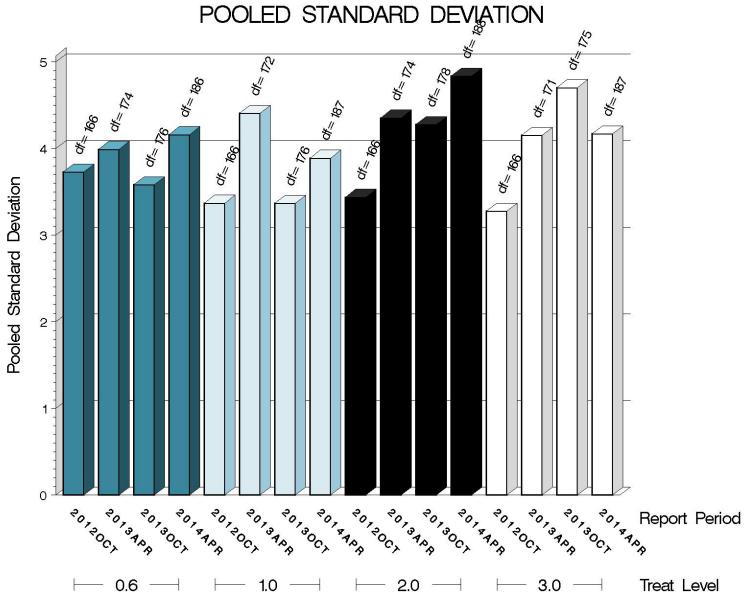
20 - 25 ML CHANGE IN FLOWRATE AVG.

CUSUM Severity Analysis









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EOWT (D 6794) SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is trending slightly severe.

Precision

Pooled s values for this period are 4.16 (0.6%), 3.89 (1.0%), 4.84 (2.0%), and 4.17 (3.0%).

Precision, as measured by pooled standard deviation, is still comparable to historical performance.





INFORMATION LETTERS

No EOWT Information Letters were issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC				
Oil	Samples @ Labs	Samples (290 mL)	Gallons			
77-1	0	0	0			
77-2	142	2706	208.4			
78-1	0	0	0			
78-2	148	772	59.5			
Total	290	3478	267.9			

The TMC supply of reference oils 77-1 & 78-1 have been depleted.

The TMC inventory of oil 78-2 is nearly depleted.

Work has begun to procure a reblend; reference oil 78-3.



