

Test Monitoring Center

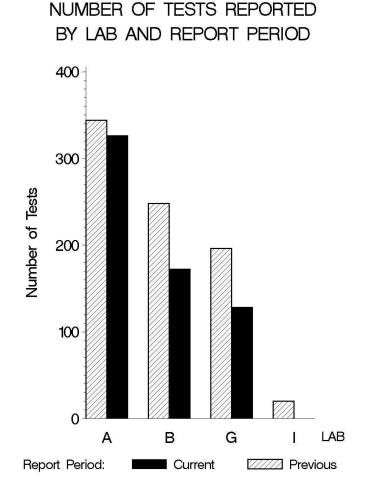
Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM:	12-019
DATE:	May 22, 2012
TO:	Becky Grinfield, Chairman, Engine Oil Water Tolerance Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Rainisky
SUBJECT:	EOWT Testing from October 1, 2011 through March 31, 2012

A total of 626 EOWT tests were reported to the Test Monitoring Center during the period from October 1, 2011 through March 31, 2012. Following is a summary of testing activity this period.

	Reporting Data
Number of Labs	3

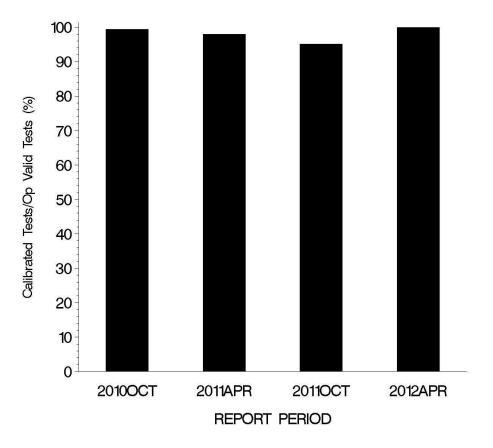
Tests reported this period were distributed as shown below:



Test Distribution by Oil, Treat Level and Validity

		By Oil By Treat Level		l	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	311	0	0	313	156	156	155	157	624	740
Accepted for Target Generation	AG	0	0	0	0	0	0	0	0	0	36
Rejected Tests	OC	0	0	0	1	0	0	1	0	1	4
Operationally Invalid (lab)	LC	0	0	0	0	0	0	0	0	0	4
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0	0	0
Aborted Calibration	XC	0	0	0	1	1	0	0	0	1	7
Total		311	0	0	314	157	156	156	157	626	791

OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



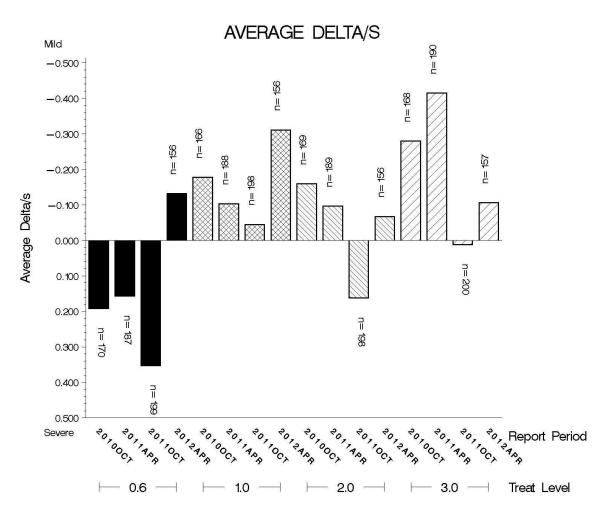
The above chart shows the percentage of accepted operationally valid tests.

				Oil			Validity			Loss Rate			
	Lab	Cause		77-1	77-2	78-1	78-2	LC	RC	XC	Lost	Starts	%
	А	Sample Spilled					•			•	1	626	0.2%
_			Total	0	0	0	1	0	0	1			
			Starts	311	0	0	315	626	626	626			
			%	0%	0%	0%	0.3%	0%	0%	0.2%			

Causes for Lost Tests

U	VS DY Lad a		
Treat Level	Lab	n	CFAYI
0.6	A	81	-0.376
	В	43	-0.419
	G	32	0.873
	Ι	0	
	Industry	155	-0.131
1.0	А	81	-0.438
	В	43	-0.542
	G	32	0.321
	Ι	0	
	Industry	155	-0.311
2.0	А	81	-0.113
	В	43	-0.618
	G	32	0.789
	Ι	0	
	Industry	155	-0.059
3.0	А	82	-0.141
	В	43	-0.532
	G	32	0.556
	Ι	0	
	Industry	157	-0.106

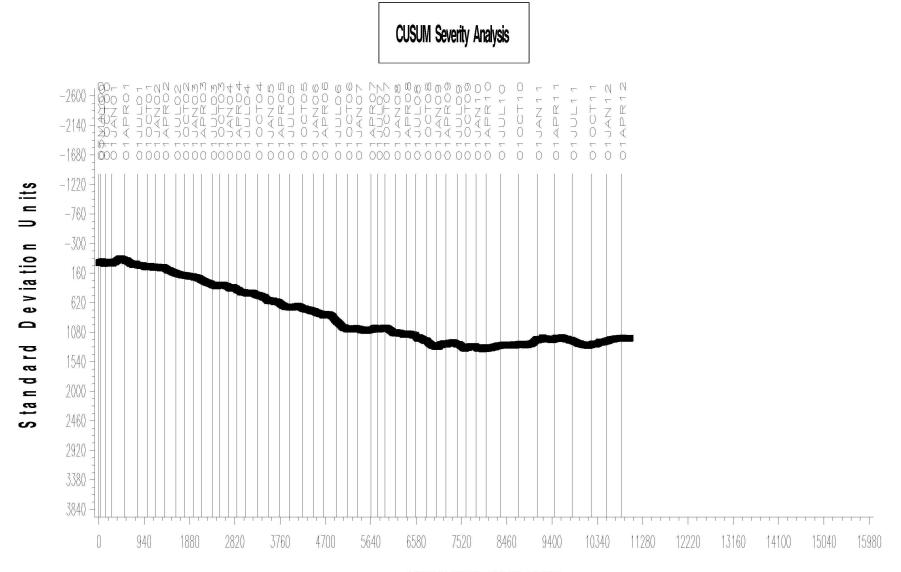
Average Δ /s by Lab and Treat Level



EOWT INDUSTRY OPERATIONALLY VALID DATA



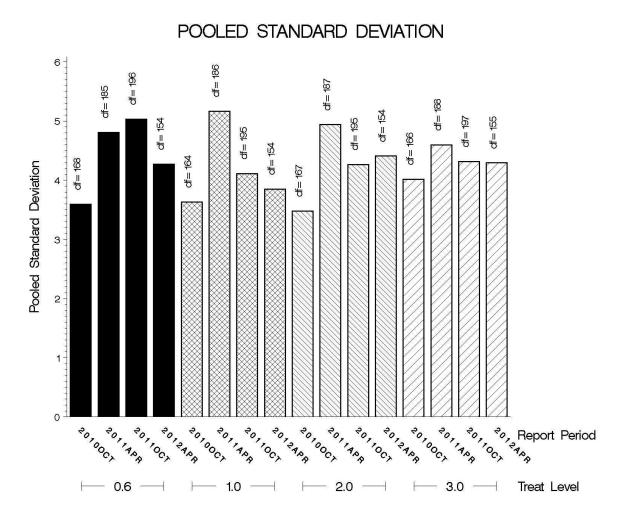
20 - 25 ML CHANGE IN FLOWRATE AVG.



COUNT IN COMPLETION DATE ORDER

POOLED S:

Shown below are bar charts comparing the pooled standard deviation values for the EOWT test parameters over the last four report periods.



STATUS OF REFERENCE OIL SUPPLY:

At the end of this report period, the testing oil supply stood as outlined in the following table:

		@ TMC			
Oil	Cans @ Labs	Cans	Gallons		
77-1	119	966	74.4		
77-2	0	3571	275.0		
78-1	16	0	0.0		
78-2	104	2710	208.7		
Total	239	7247	558.1		

Be aware that this table presumes that all of each of these oils at the TMC is dedicated to EOWT use. This is not the case, as oils 78-1 and 78-2 are also used in the EOFT test.

INFORMATION LETTERS:

No information letters were issued during this report period.

SUMMARY

- Over the course of this report period, CFA severity as measured by cusum plotting remained on target.
- Precision, as measured by pooled standard deviation, has improved slightly when compared to the previous period, but is still within historical levels.
- The TMC supply of reference oil 78-1 has been exhausted.

MTK/mtk/astm0412.doc/mem12-019.doc.doc

F. M. Farber J. A. Clark EOWT Surveillance Panel ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2012.pdf

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