

Test Monitoring Center

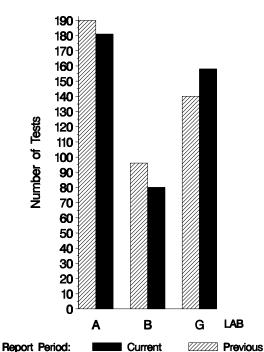
Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM:	10-023
DATE:	May 25, 2010
TO:	Becky Grinfield, Chairman, Engine Oil Water Tolerance Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Resimisky
SUBJECT:	EOWT Testing from October 1, 2009 through March 31, 2010

A total of 419 EOWT tests were reported to the Test Monitoring Center during the period from October 1, 2009 through March 31, 2010. Following is a summary of testing activity this period.

	Reporting Data				
Number of Labs	3				

Tests reported this period were distributed as shown below:

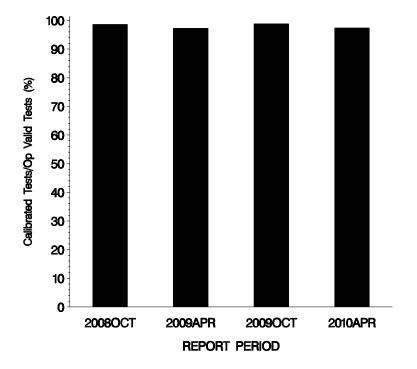


NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD

Test Distribution by Oil, Treat Level and Validity

		By Oil		By Treat Level				Totals	
		77-1	78-1	0.6	1.0	2.0	3.0	This Period	Last Period
Accepted for Calibration	AC	190	209	100	100	100	99	399	413
Accepted for Target Generation	AG	0	0	0	0	0	0	0	0
Rejected Tests	OC	2	9	3	1	5	2	11	5
Operationally Invalid (lab)	LC	2	2	1	1	1	1	4	4
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0
Aborted Calibration	XC	1	4	1	2	1	1	5	4
Total		195	224	105	104	107	103	419	426

OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



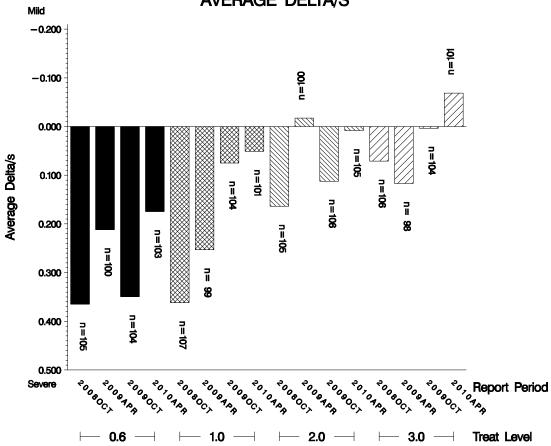
The above chart shows the percentage of accepted operationally valid tests.

Causes for Lost Tests

			Oil		Validity			Loss Rate		
Lab	Cause		77-1	78-1	LC	RC	XC	Lost	Starts	%
А	Sample Spilled		•		•			2	419	0.4%
А	Mixing Error		•				•	3	419	0.7%
G	Mixing Error			•			•	4	419	1%
		Total	4	5	4	0	5			
		Starts	195	224	419	419	419			
		%	2%	2%	1%	0%	1%			

Treat Level	Lab	n	CFAYI
	А	44	-0.726
0.6	В	20	0.540
0.0	G	39	1.004
	Industry	103	0.175
	А	43	-0.574
1.0	В	20	-0.483
1.0	G	38	1.039
	Industry	101	0.051
	А	46	-0.655
2.0	В	20	-0.751
2.0	G	39	1.180
	Industry	105	0.008
	А	43	-0.533
3.0	В	20	-0.939
5.0	G	38	0.915
	Industry	101	-0.068

Average Δ /s by Lab and Treat Level

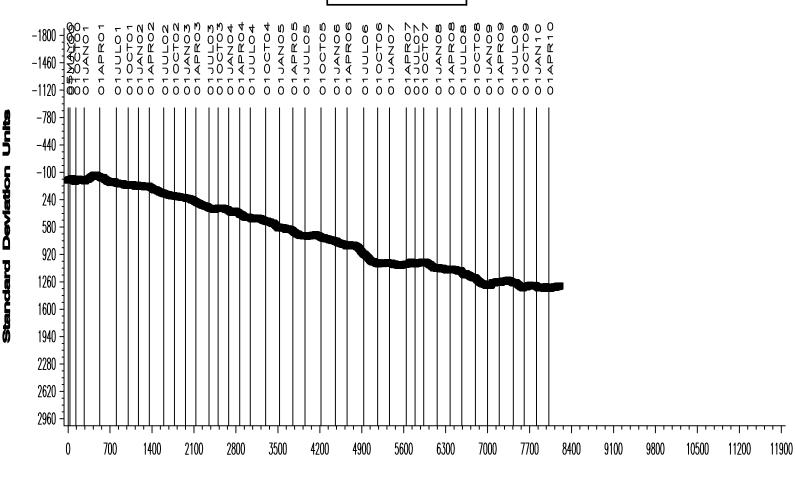


AVERAGE DELTA/S

EOWT INDUSTRY OPERATIONALLY VALID DATA

20 - 25 ML CHANGE IN FLOWRATE AVG.

CUSUM Sevenity Analysis

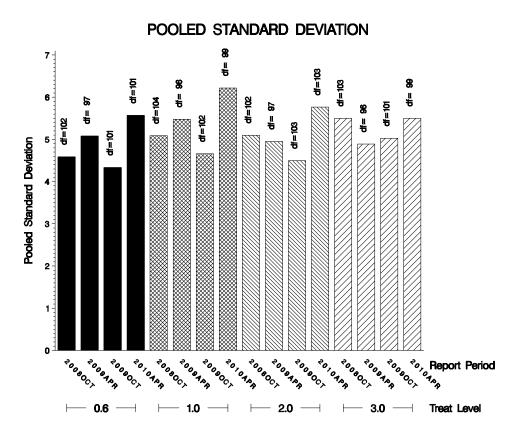


COUNT IN COMPLETION DATE ORDER

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POOLED S:

Shown below are bar charts comparing the pooled s 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:

		@ T	`MC
Oil	Samples @ Labs	Samples	Gallons
77-1	66	2701	208.0
78-1	64	1035	79.7
Total	130	3736	287.7

Be aware that this table presumes that all of each of these oils is dedicated to the EOWT test area. This is not the case, as oil 78-1 is 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 is comparable to previous periods.

MTK/mtk/astm0410.doc/mem10-023.doc.doc

c: F. M. Farber J. A. Clark EOWT Surveillance Panel <u>ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2010.pdf</u>

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