



Test Monitoring Center

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

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

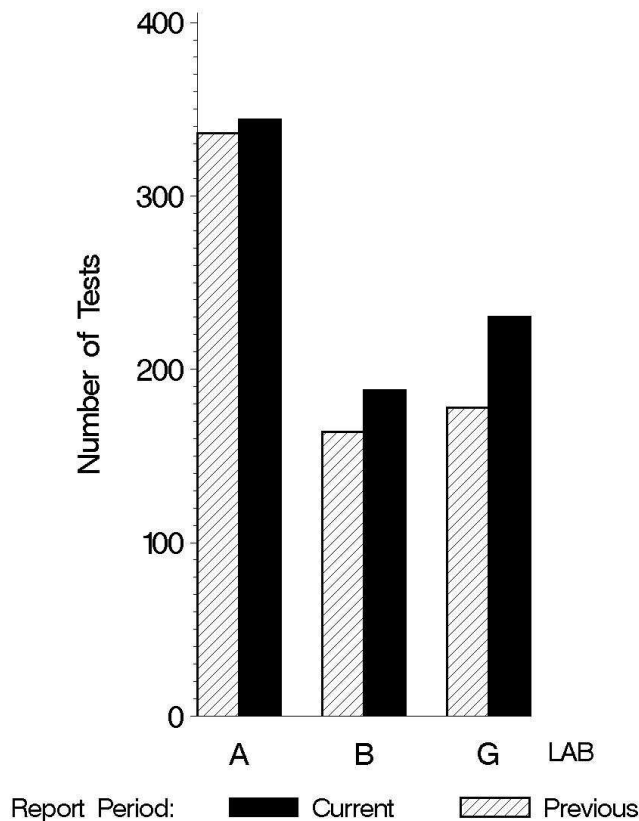
MEMORANDUM: 11-018
DATE: June 1, 2011
TO: Becky Grinfield,
Chairman, Engine Oil Water Tolerance Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: EOWT Testing from October 1, 2010 through March 31, 2011

A total of 762 EOWT tests were reported to the Test Monitoring Center during the period from October 1, 2010 through March 31, 2011. Following is a summary of testing activity this period.

	Reporting Data
Number of Labs	3

Tests reported this period were distributed as shown below:

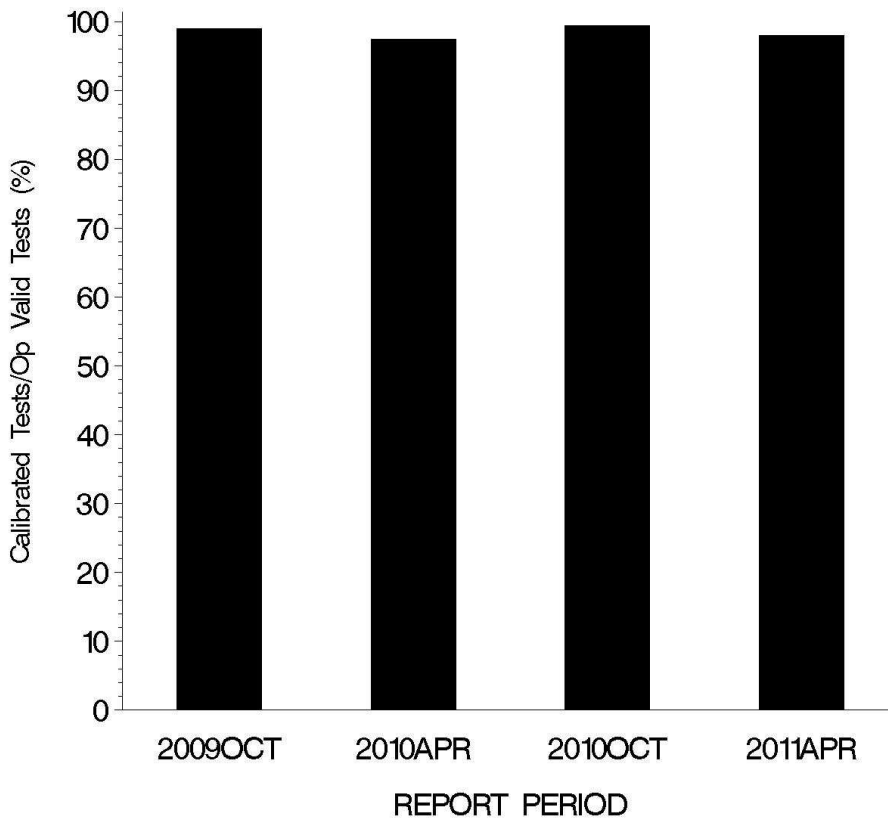
NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



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	425	313	185	187	182	184	738	668
Accepted for Target Generation	AG	0	0	0	0	0	0	0	0
Rejected Tests	OC	2	14	2	1	7	6	16	5
Operationally Invalid (lab)	LC	5	2	1	2	2	2	7	1
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0
Aborted Calibration	XC	1	0	1	0	0	0	1	4
Total		433	329	189	190	191	192	762	678

**OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA**



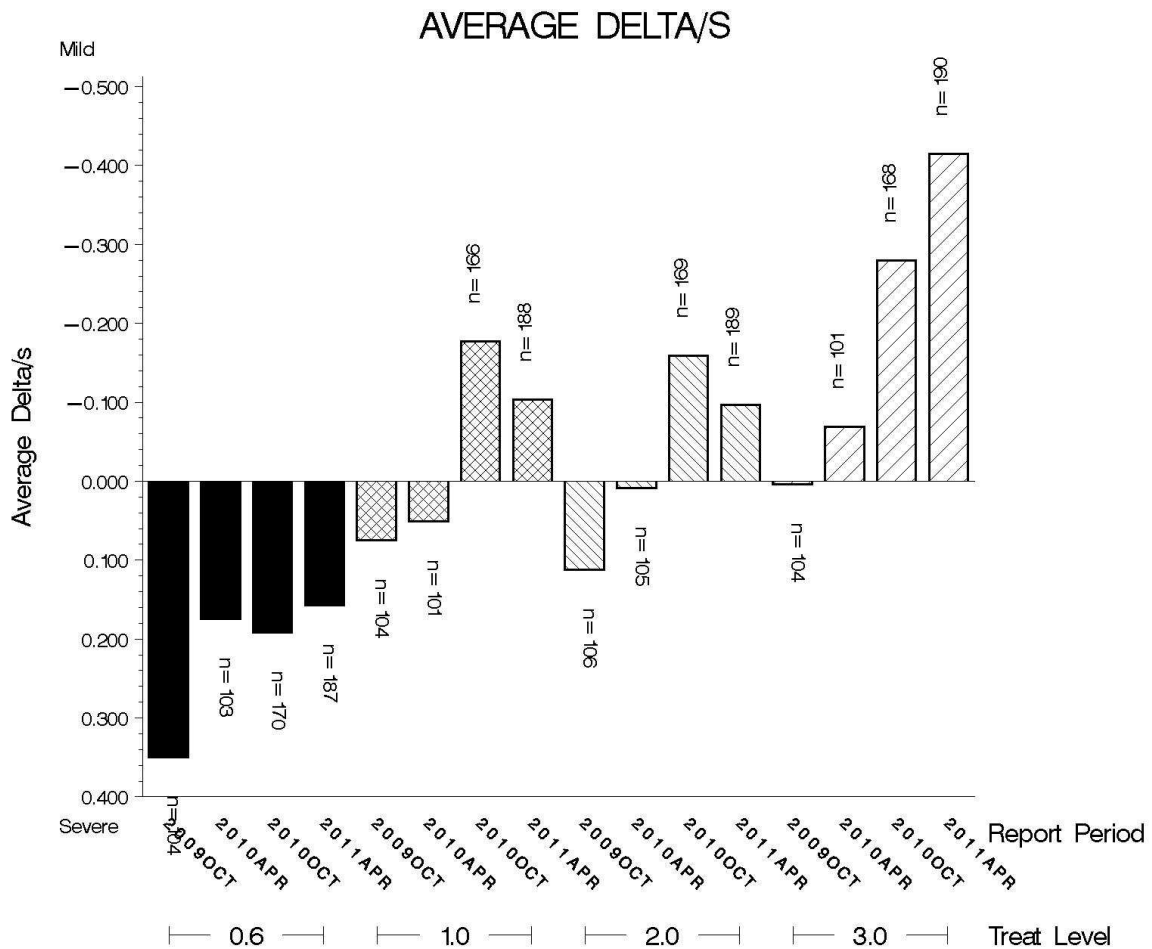
The above chart shows the percentage of accepted operationally valid tests.

Causes for Lost Tests

Lab	Cause	Oil		Validity			Loss Rate		
		77-1	78-1	LC	RC	XC	Lost	Starts	%
A	Sample Preparation Error	●	●	●		●	3	762	0.4%
	Sample Differential Too Great		●	●			1	762	0.1%
G	Heating Problem	●				●	4	762	0.5%
	Total	6	2	7	0	1			
	Starts	433	329	762	762	762			
	%	1.3%	0.6%	0.9%	0%	0.1%			

Average Δ /s by Lab and Treat Level

Treat Level	Lab	n	CFAYI
0.6	A	84	-0.473
	B	47	-0.019
	G	56	1.249
	Industry	187	0.157
1.0	A	84	-0.391
	B	47	-0.666
	G	57	0.784
	Industry	188	-0.103
2.0	A	85	-0.315
	B	47	-0.930
	G	57	0.916
	Industry	189	-0.096
3.0	A	87	-0.600
	B	47	-0.959
	G	56	0.330
	Industry	190	-0.415

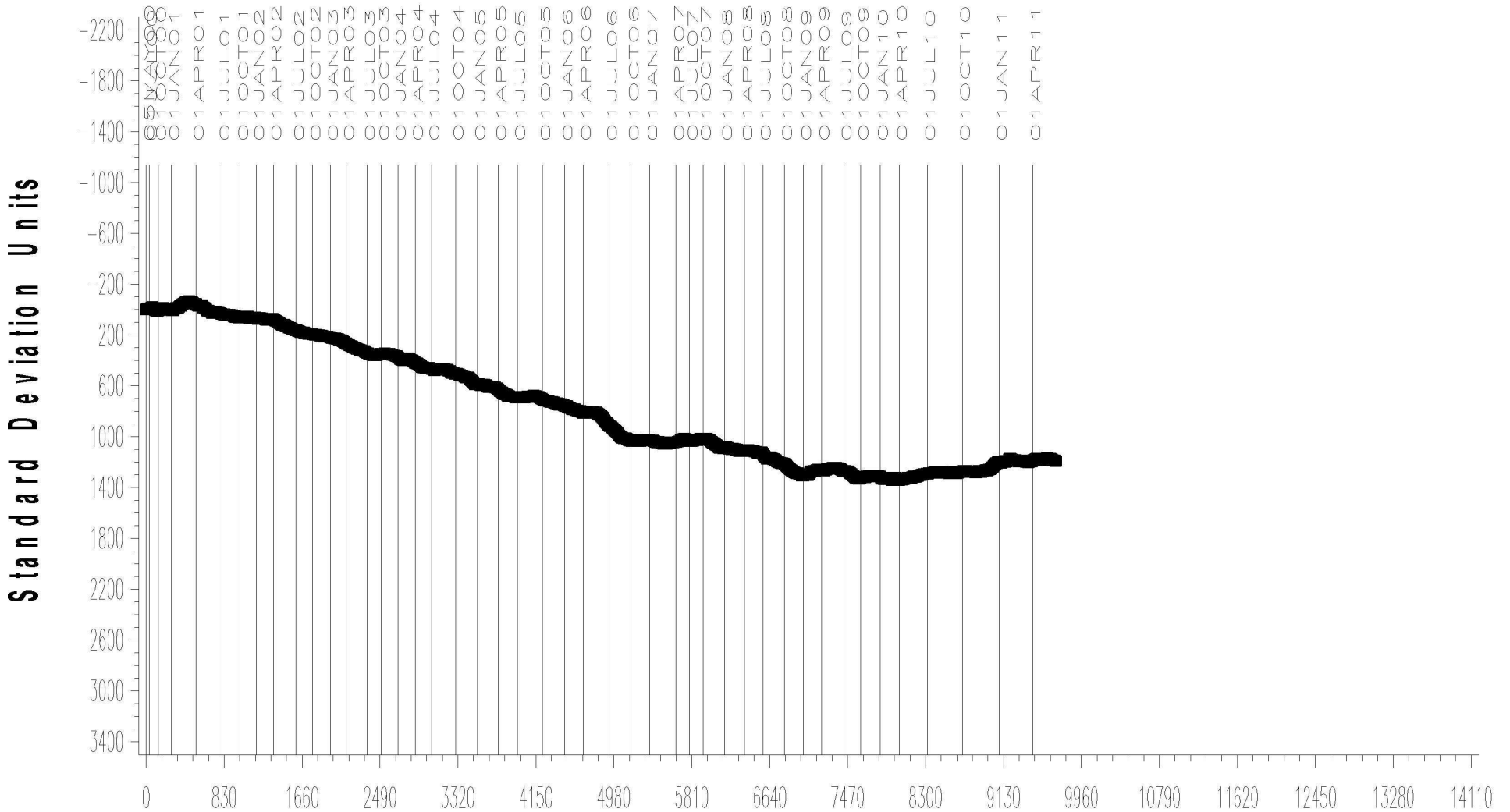


EOWT INDUSTRY OPERATIONALLY VALID DATA



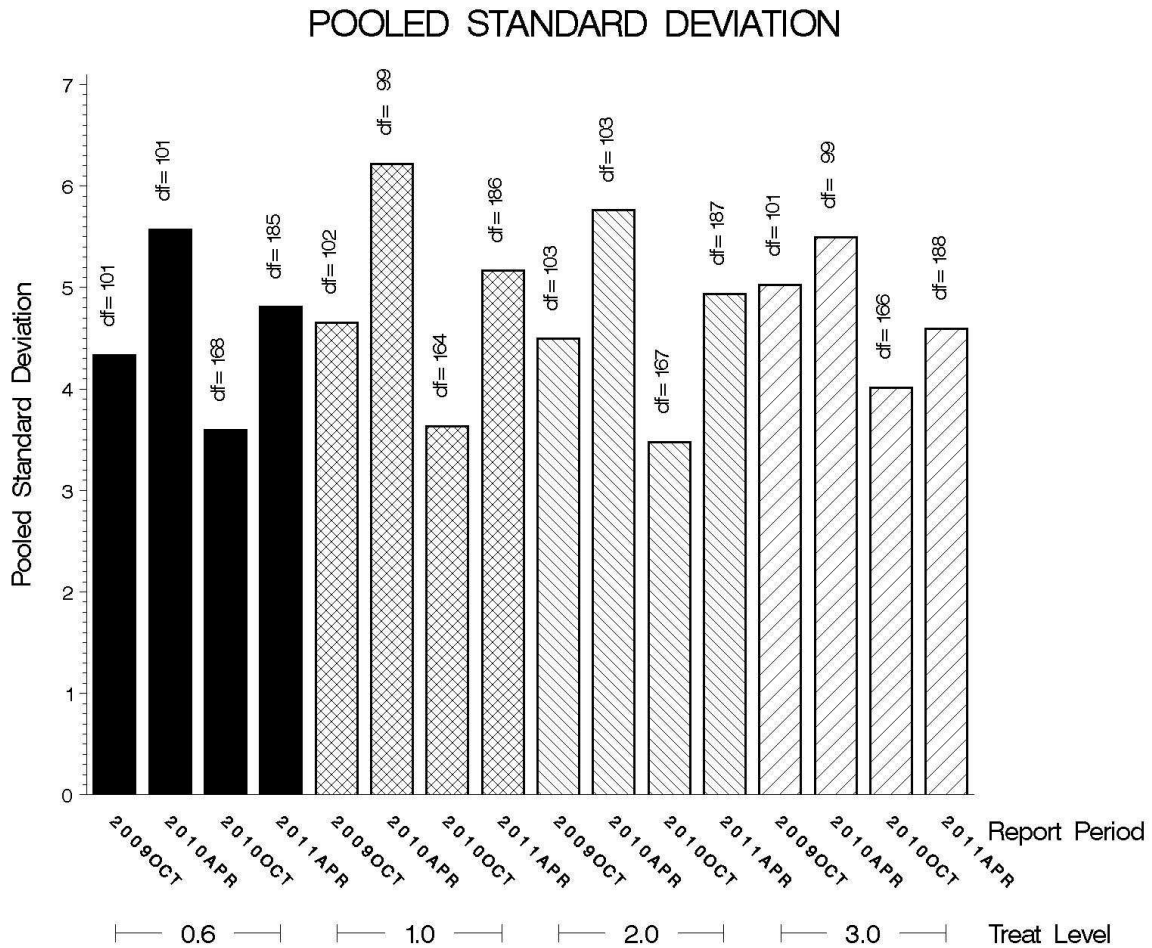
20 — 25 ML CHANGE IN FLOWRATE AVG.

CUSUM Severity Analysis



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:

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
77-1	49	1718	132.3
77-2	0	3571	275.0
78-1	31	0	0.0
78-2	44	3487	268.5
Total	124	8776	675.8

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 oils 78-1 and 78-2 are also used in the EOFT area.

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 degraded when compared to the previous period, but is still within historical levels.
- The TMC supply of reference oil 78-1 has been exhausted. Donated testing of 78-2, for target generation, is ongoing at this time.

MTK/mtk/astm0411.doc/mem11-018.doc.doc

c: F. M. Farber

J. A. Clark

EOWT Surveillance Panel

<ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2011.pdf>

Distribution: email