

# **Test Monitoring Center**

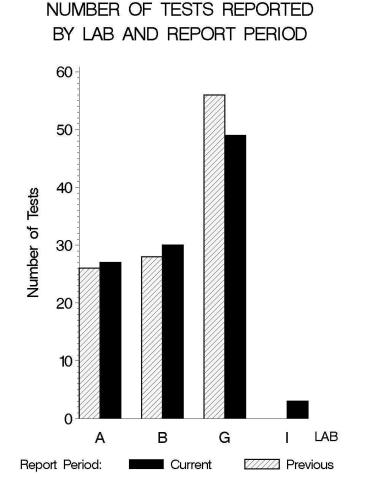
Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM:	11-047
DATE:	November 8, 2011
TO:	Becky Grinfield, Chairman, Engine Oil Filterability Test Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Rasimisky
SUBJECT:	EOFT Testing from April 1, 2011 through September 30, 2011

A total of 109 EOFT tests were reported to the Test Monitoring Center during the period from April 1, 2011 through September 30, 2011. Following is a summary of testing activity this period.

	Reporting Data
Number of Labs	4

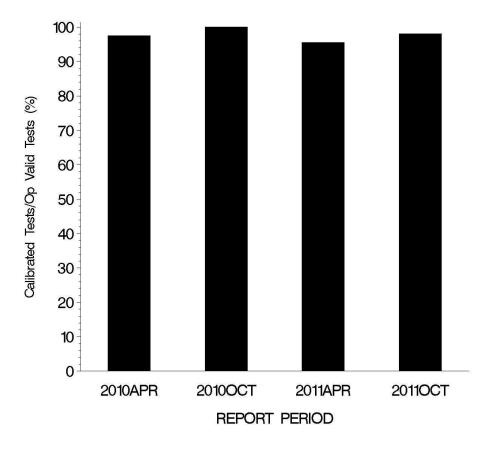
Tests reported this period were distributed as shown below:



### Test Distribution by Oil and Validity

induon by On and Vanuity				Totals		
		78-1	78-2	This Period	Last Period	
Accepted for Calibration	AC	61	36	97	104	
Accepted for Target Generation	AG	0	9	9	0	
Rejected Mild	OC	2	0	2	5	
Rejected Severe	OC	0	0	0	0	
Operationally Invalid (lab)	LC	0	0	0	0	
Operationally Invalid (lab/TMC)	RC	0	0	0	0	
Aborted Calibration	XC	1	0	1	1	
Total		64	45	109	110	

## OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA



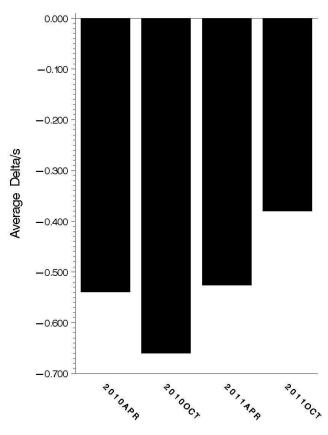
The above chart shows the percentage of accepted operationally valid tests. Two tests failed this period.

### CAUSES FOR LOST TESTS

			O	il		Validity	/	]	Loss Rate	e
Lab	Cause		78-1	78-2	LC	RC	XC	Lost	Starts	%
Ι	Broken Burette		•				•	1	109	0.9%
		Total Lost	1	0	0	0	1			
		Starts	64	45	109	109	109			
		%	1.6%	0%	0%	0%	0.9%			

### AVERAGE $\Delta/s$ :

Average $\Delta$ /s by Lab				
Lab	n	CIFAYI		
А	27	-0.118		
В	30	-1.232		
G	49	0.184		
Ι	2	-4.967		



AVERAGE DELTA/S

108

-0.380

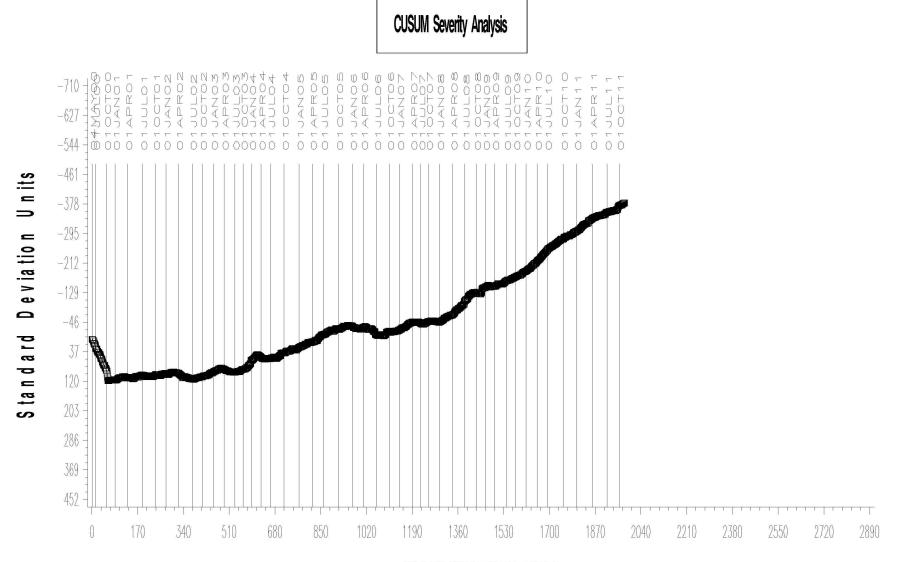
Industry

Report Period

### EOFT INDUSTRY OPERATIONALLY VALID DATA



### 20 - 25 ML CHANGE IN FLOWRATE AVERAGE (%)

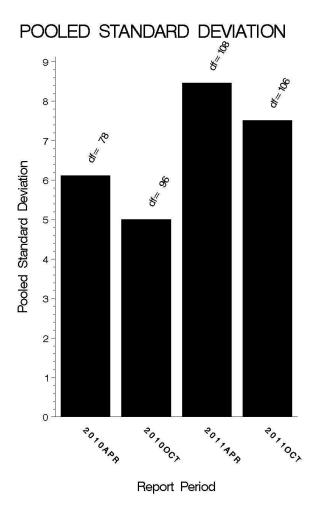


COUNT IN COMPLETION DATE ORDER

07NOV11:14:12

### POOLED S:

Pooled s this period was 7.50. Shown below are bar charts comparing the pooled s values for the EOFT test 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
78-1	29	0	0
78-2	17	3176	244.6
Total	46	3176	244.6

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

On the June 9, 2011, EOFT Surveillance Panel conference call, the panel approved a motion to introduce reference oil 78-2, based upon the nine data points presented on the call.

The initial test targets, which took effect on June 9, 2011, are shown in the following table:

<b>Reference Oil 78-2 Test Targets</b> (N=9)				
Mean	Std Dev	К	Target Range	
44.26	7.13	1.96	30.28 to 58.23	

Note that the upper and lower limits shown in the "Target Range" block are the official test targets for the EOWT test; the target mean and standard deviation are shown for information purposes only.

#### **INFORMATION LETTERS:**

No information letters were issued during this report period.

#### **SUMMARY**

- Over the course of this report period, CIFA severity as measured by cusum plotting was slightly mild overall.
- Precision as measured by pooled standard deviation has improved, compared to last period, and is more in line with past periods.

MTK/mtk/astm1011.doc/mem11-047.mtk.doc

F. M. Farber J. A. Clark EOFT Surveillance Panel <u>ftp://ftp.astmtmc.cmu.edu/docs/bench/eoft/semiannualreports/eoft-10-2011.pdf</u>

Distribution: email

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