



Test Monitoring Center

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

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

MEMORANDUM: 17-040

DATE: November 13, 2017

TO: Yong-Li McFarland,
Chairwoman, Engine Oil Filterability Test Surveillance Panel

FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*

SUBJECT: EOFT Testing from April 1, 2017 through September 30, 2017

A total of 126 EOFT tests were reported to the Test Monitoring Center during the report period from April 1, 2017 through September 30, 2017.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1017.doc/mem17-040.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

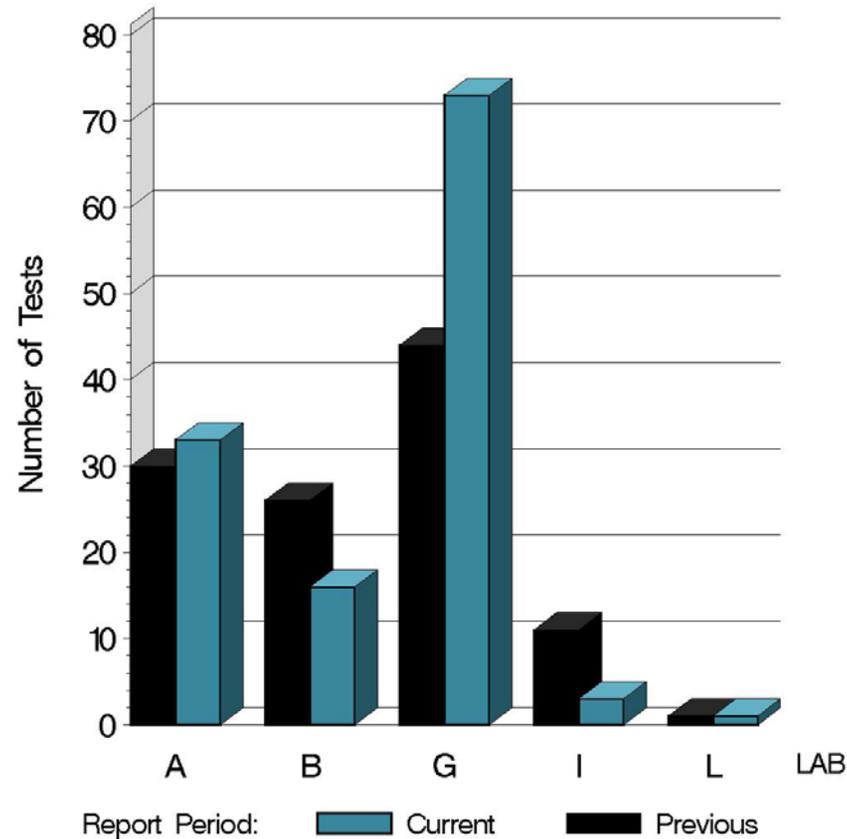
<http://www.astmtmc.cmu.edu/docs/bench/eoft/semiannualreports/eoft-10-2017.pdf>

Distribution: email

EOFT (D 6795)

	Reporting Data
Number of Labs	5

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



13:00:32 13NOV2017

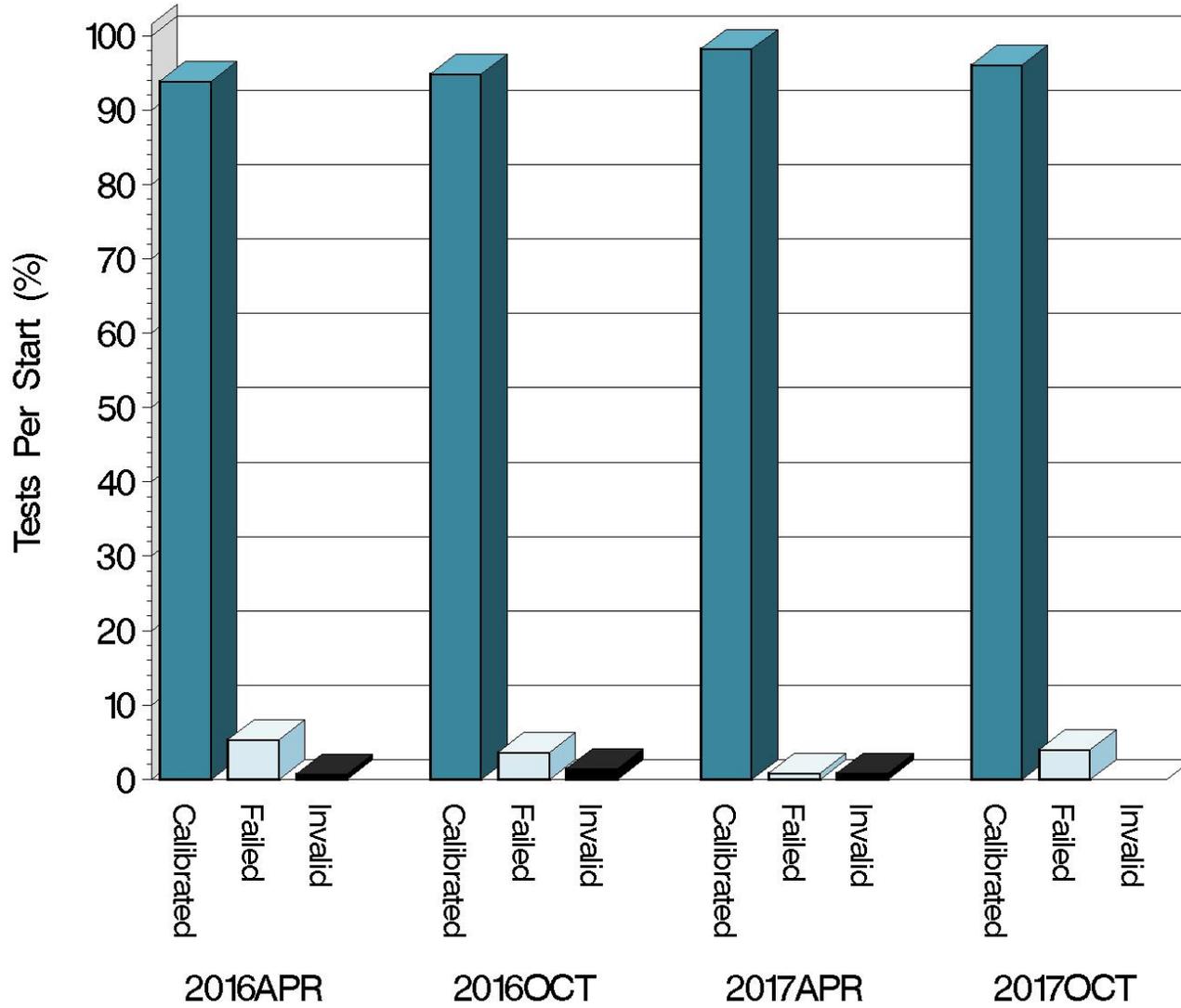
EOFT (D 6795)

Test Distribution by Oil and Validity

		Totals			
		78-2	79	This Period	Last Period
Accepted for Calibration	AC	0	121	121	107
Failed Acceptance Criteria	OC	0	5	5	1
Operationally Invalid (lab)	LC	0	0	0	0
Aborted Calibration	XC	0	0	0	1
Accepted for Target Generation	NI	0	0	0	0
Invalid Target Generation	LI	0	0	0	0
Total		0	126	126	109

EOFT (D 6795)

CALIBRATION ATTEMPT SUMMARY



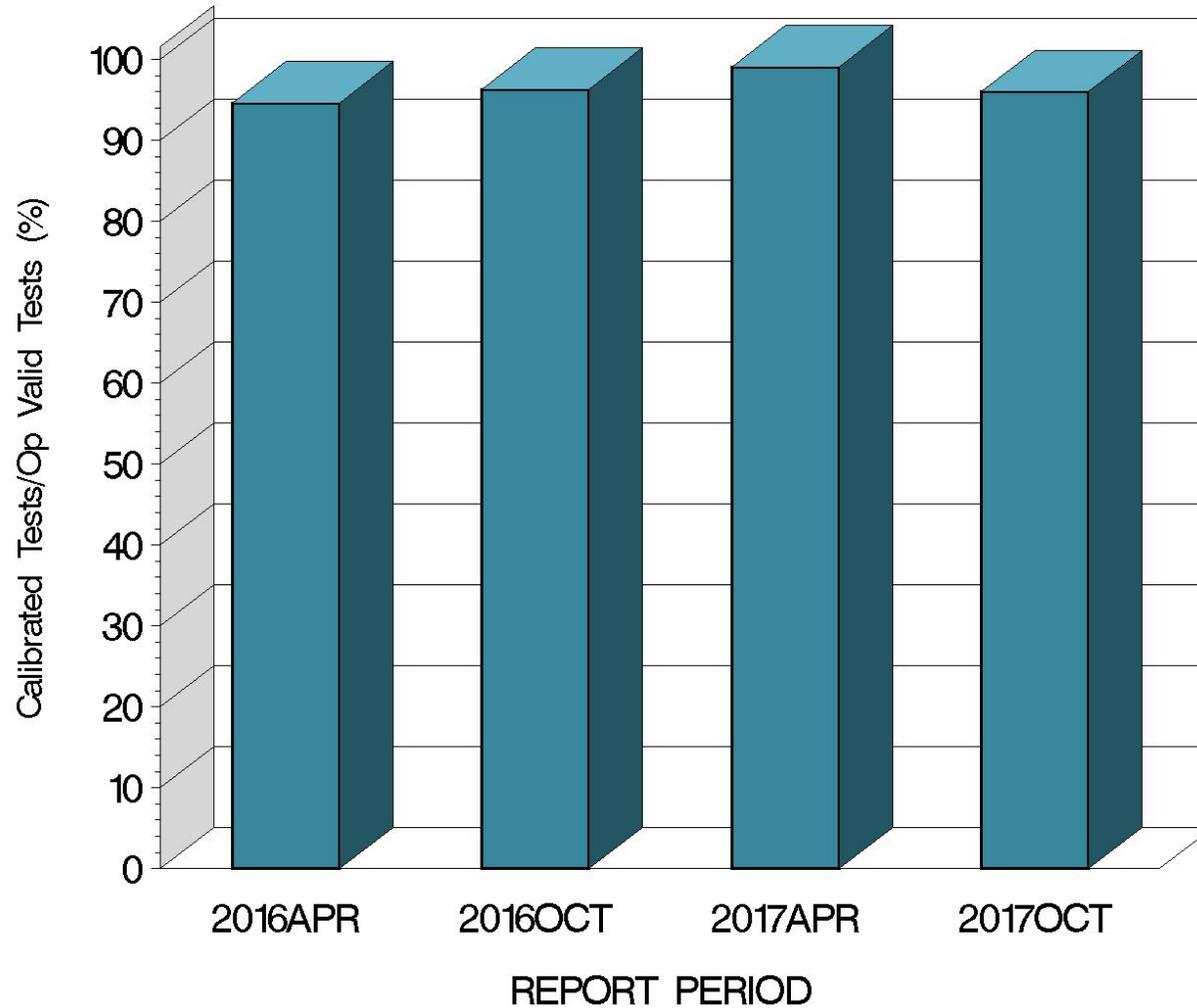
Resolution

Report Period

13:00:32 13NOV2017

EOFT (D 6795)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



13:00:32 13NOV2017

EOFT (D 6795)

CAUSES FOR LOST TESTS

		Oil	Validity			Loss Rate		
Lab	Cause	79	LC	RC	XC	Lost	Starts	%
-	No Lost Tests	0	0	0	0	0	126	0
	Lost	0	0	0	0			
	Starts	126	126	126	126			
	%	0	0	0	0			

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

EOFT (D 6795)

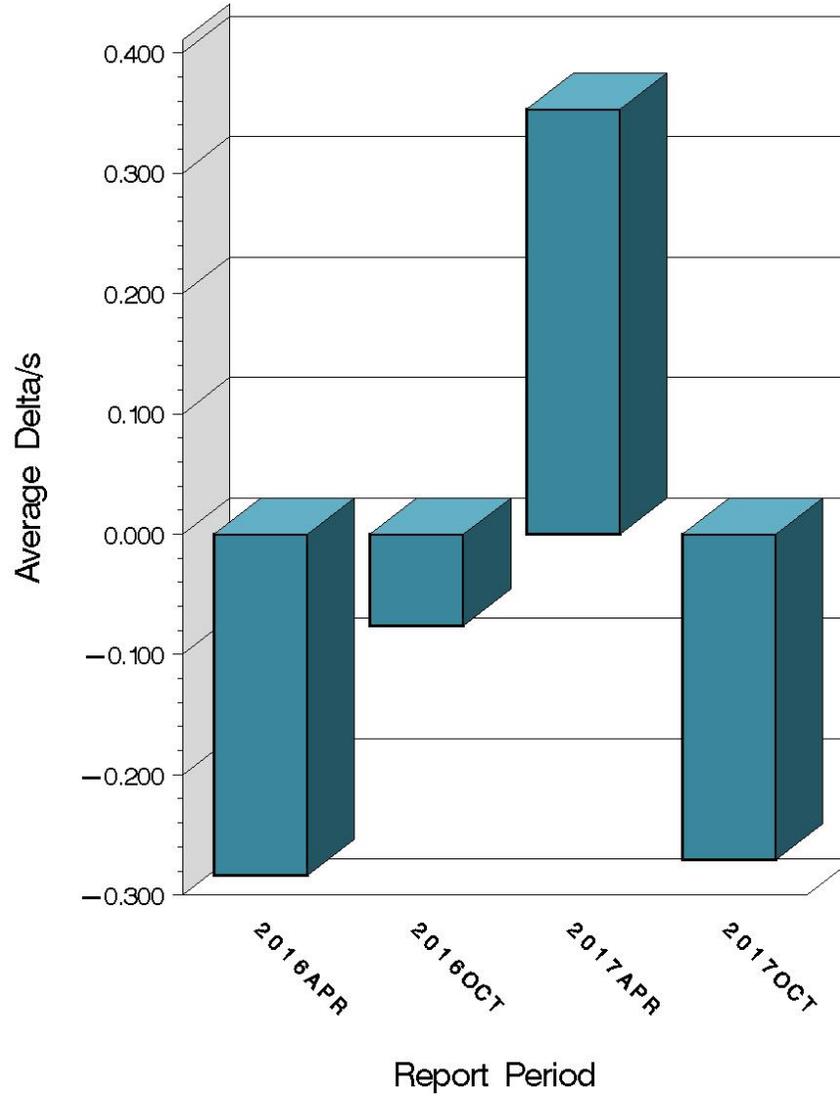
Average Δ/s By Laboratory		
Lab	n	CIFAYI
A	33	-0.293
B	16	0.822
G	73	-0.417
I	3	-1.109
L	1	-3.776
Industry	126	-0.270

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

<ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoft/data/>

EOFT (D 6795)

AVERAGE DELTA/S



13:00:32 13NOV2017

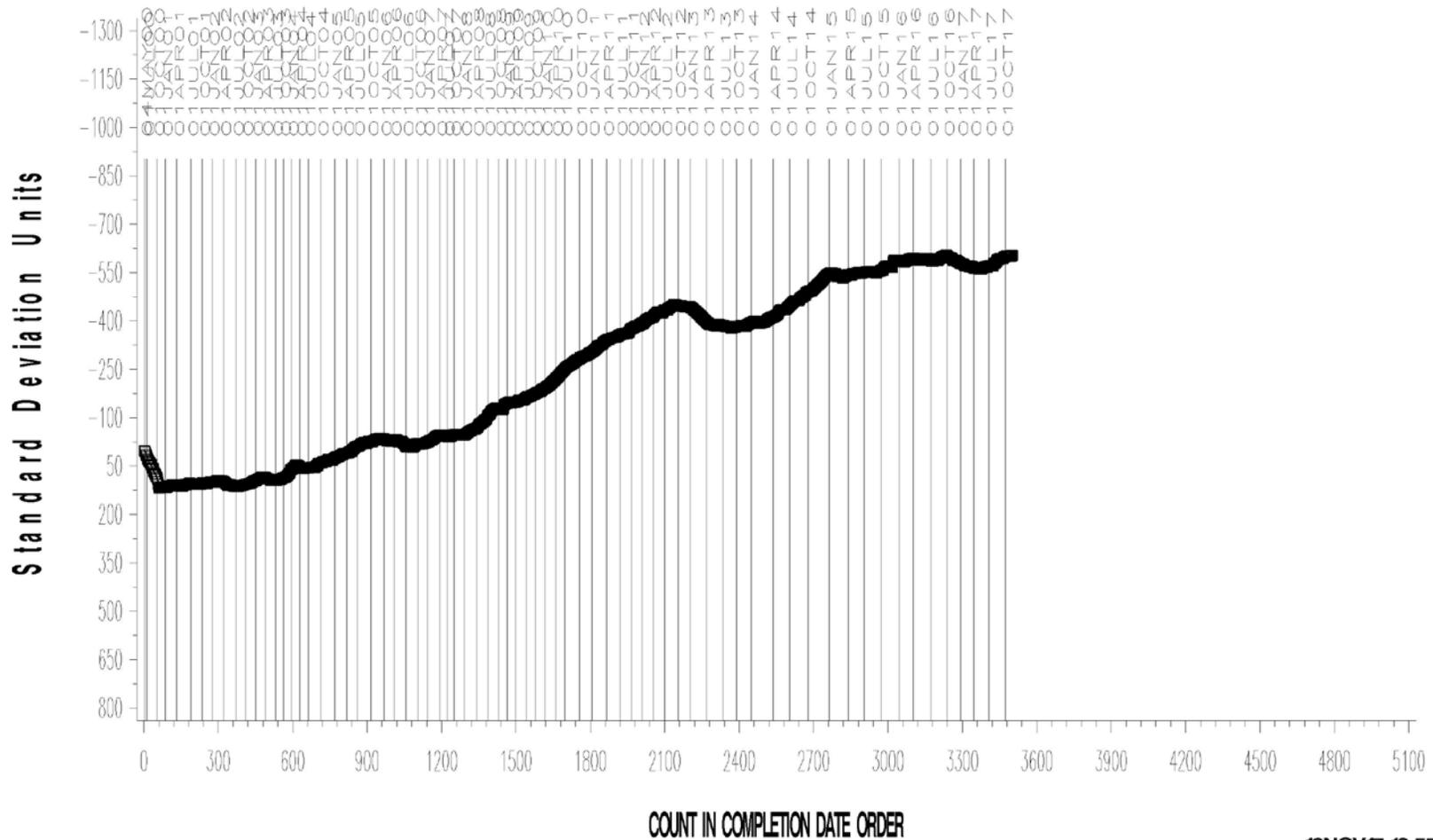
EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA



20 – 25 ML CHANGE IN FLOWRATE AVERAGE (%)

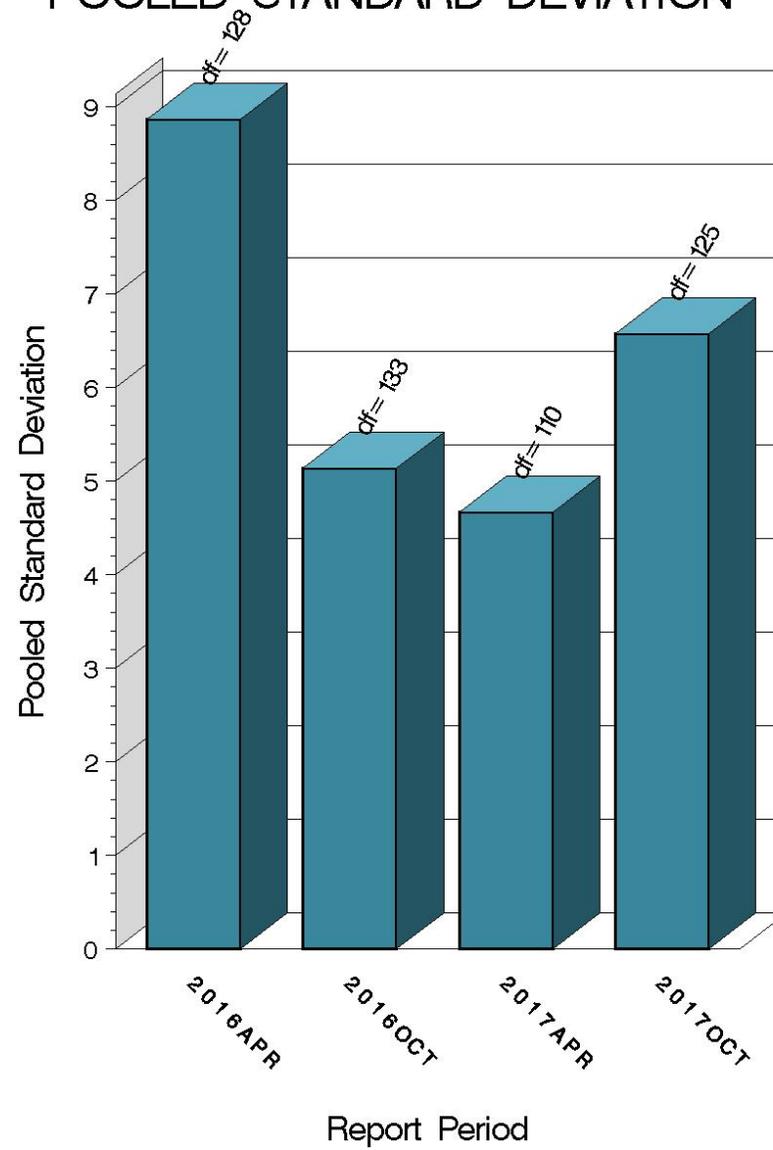
CUSUM Severity Analysis



13NOV17:12:55

EOFT (D 6795)

POOLED STANDARD DEVIATION



13:00:32 13NOV2017

EOFT (D 6795)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, has resumed the mild trend that has existed for several years in the test.

Precision

Pooled s for this period is 6.57.

Precision, as measured by pooled standard deviation, has degraded slightly compared to last period, but is still comparable to historical performance.

EOFT (D 6795)

INFORMATION LETTERS

No Information Letters were issued this period.

EOFT (D 6795)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
79	75	9,805	755.0
Total	75	9,805	755.0

Reference oil 78-2 cannot be re-blended. The TMC has procured a replacement oil, called reference oil 79, which has been introduced into EOFT.