



Test Monitoring Center

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

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

MEMORANDUM: 18-014

DATE: June 5, 2018

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

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

SUBJECT: EOFT Testing from October 1, 2017 through March 31, 2018

A total of 138 EOFT tests were reported to the Test Monitoring Center during the report period from October 1, 2017 through March 31, 2018.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0418.doc/mem18-014.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

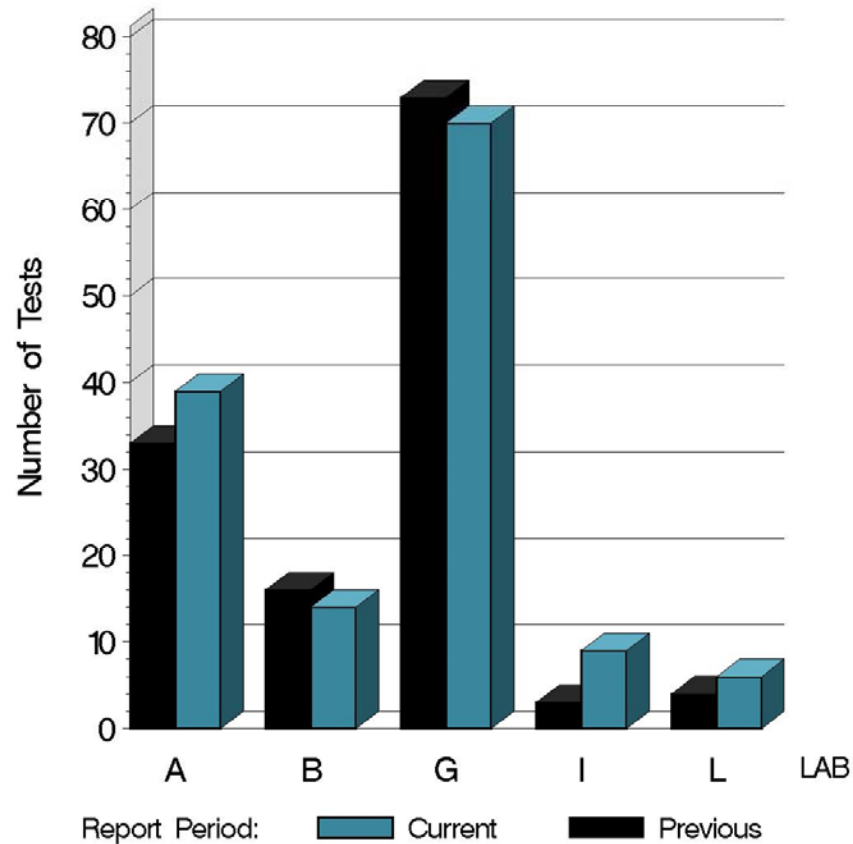
<http://www.astmtmc.cmu.edu/ftp/docs/bench/eoft/semiannualreports/eoft-04-2018.pdf>

Distribution: email

EOFT (D 6795)

	Reporting Data
Number of Labs	5

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



9:54:27 24MAY2018

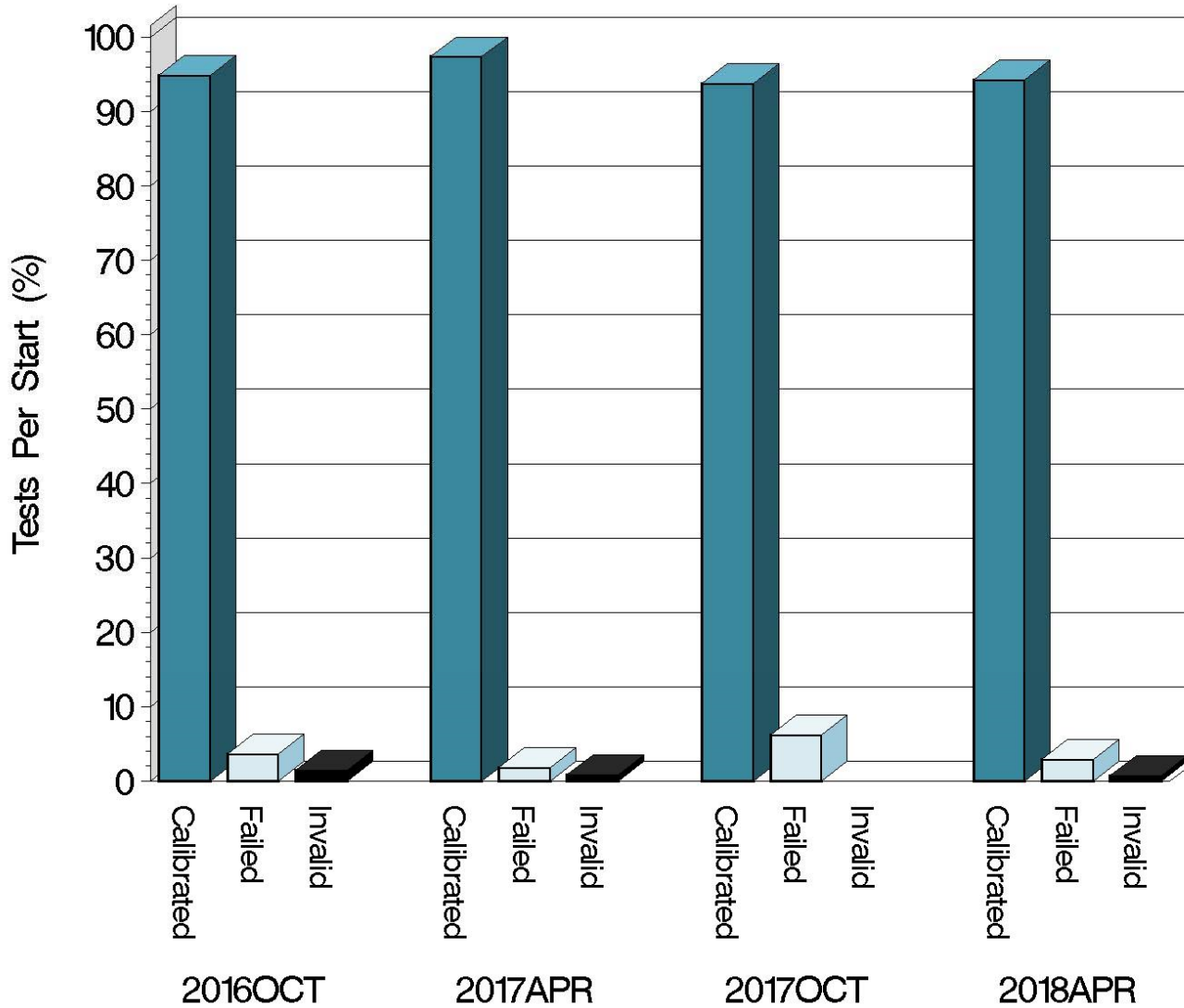
EOFT (D 6795)

Test Distribution by Oil and Validity

				Totals	
		78-2	79	This Period	Last Period
Accepted for Calibration	AC	0	130	130	121
Failed Acceptance Criteria	OC	0	4	4	5
Operationally Invalid (lab)	LC	0	0	0	0
Aborted Calibration	XC	0	1	1	0
Acceptable Shakedown	AS	0	2	2	0
Unacceptable Shakedown	OS	0	1	1	0
Total		0	138	138	126

EOFT (D 6795)

CALIBRATION ATTEMPT SUMMARY



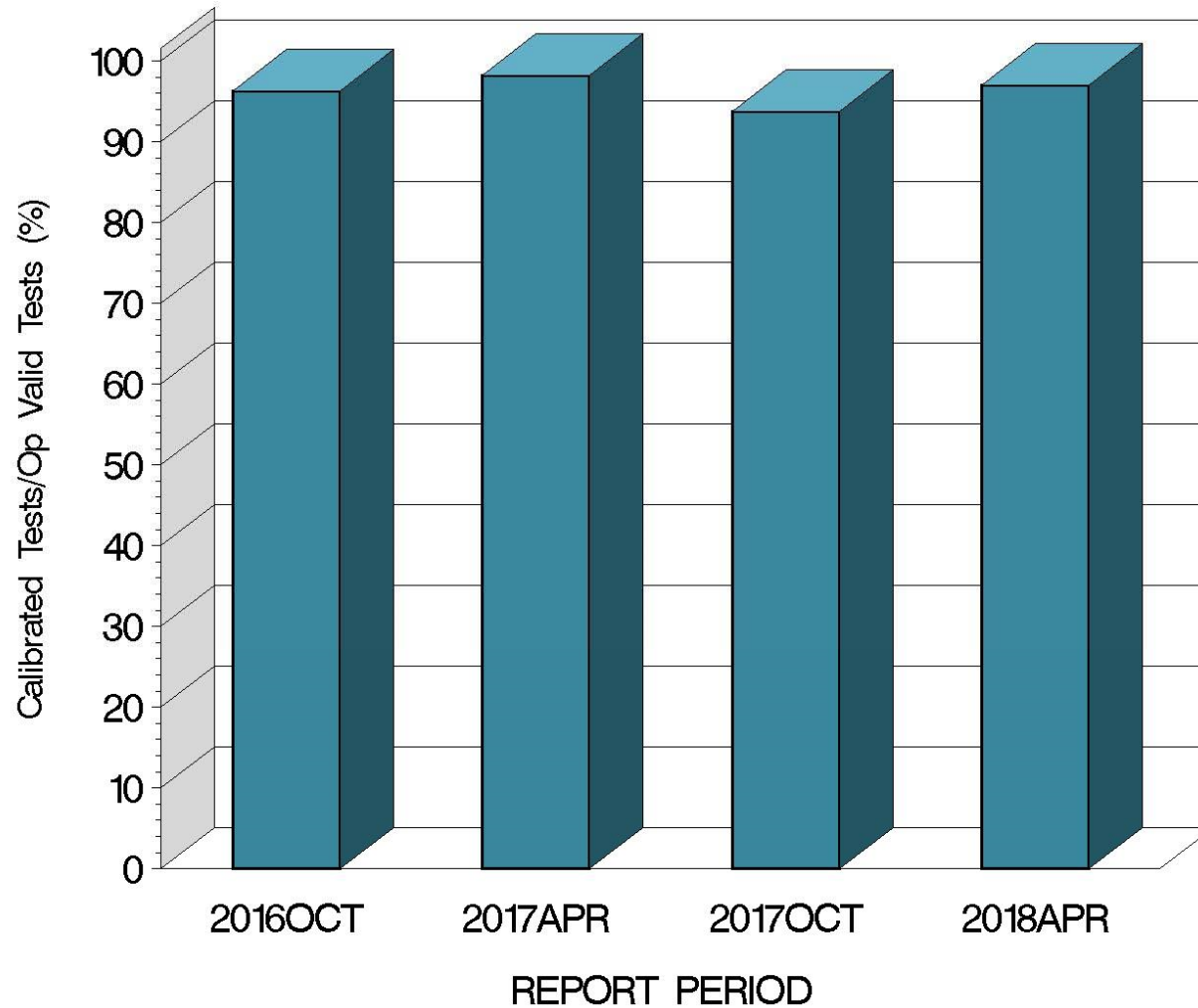
Resolution

Report Period

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EOFT (D 6795)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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EOFT (D 6795)

CAUSES FOR LOST TESTS

		Oil	Validity			Loss Rate		
Lab	Cause	79	LC	RC	XC	Lost	Starts	%
B	Sample Prep Error	1	0	0	1	1	14	7.1
	Lost	1	0	0	1			
	Starts	134	134	134	134			
	%	0.7	0	0	0.7			

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

EOFT (D 6795)

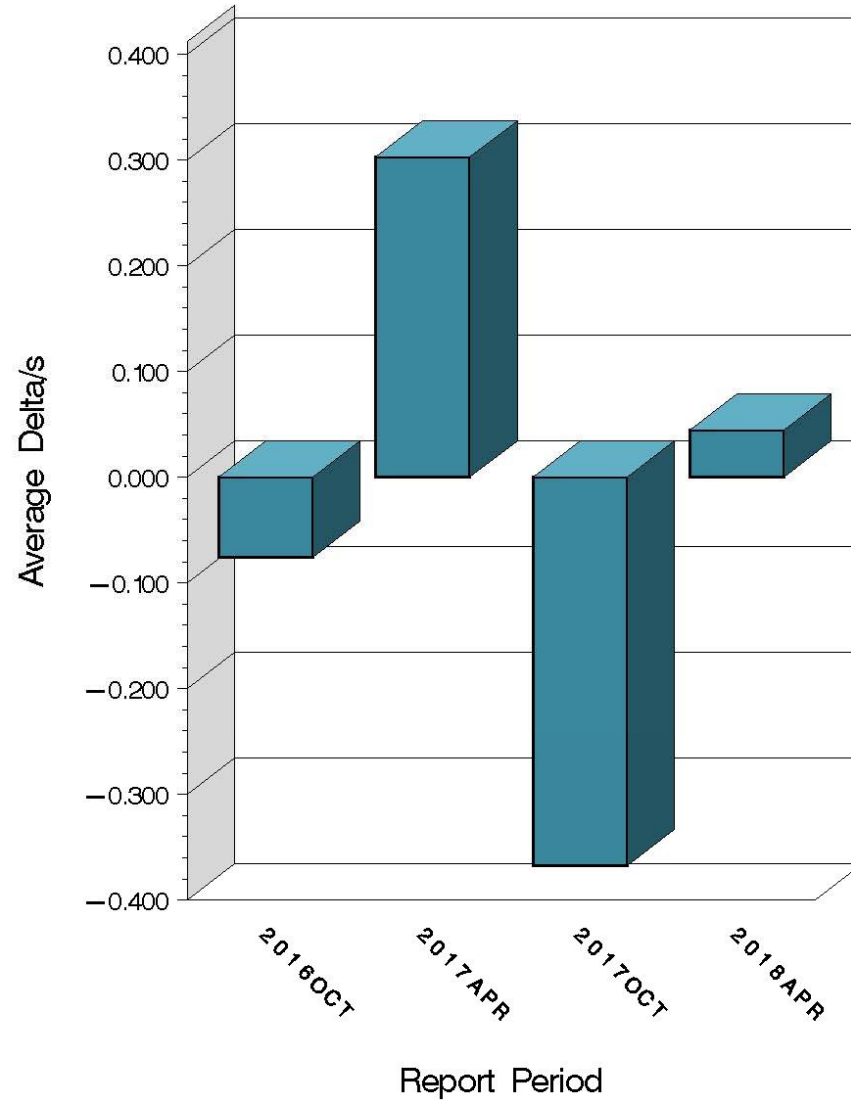
Average Δ/s By Laboratory		
Lab	n	CIFAYI
A	39	-0.639
B	13	-0.140
G	70	0.518
I	9	-0.502
L	3	0.322
Industry	134	0.044

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

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

EOFT (D 6795)

AVERAGE DELTA/S



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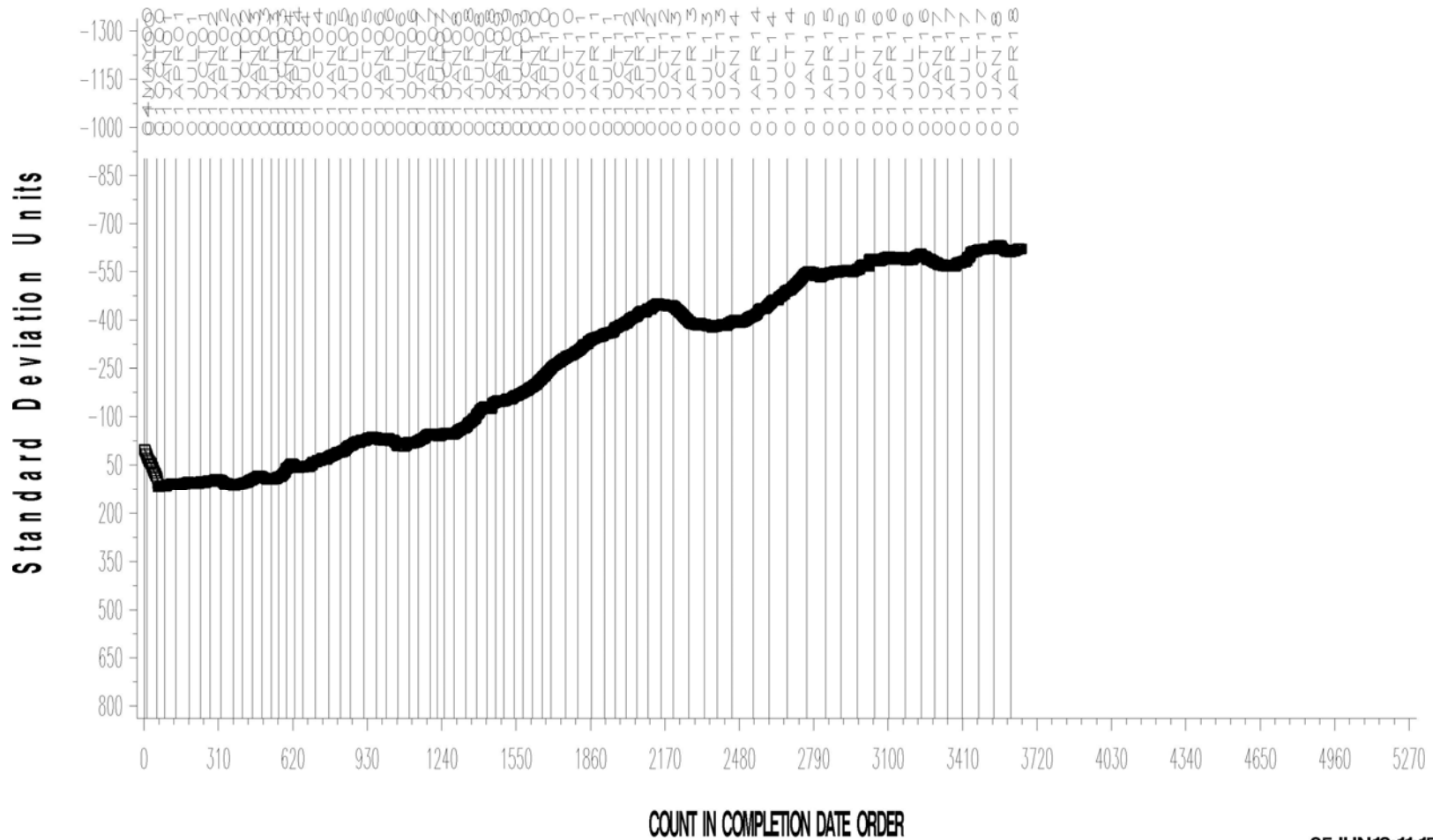
EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA



20 – 25 ML CHANGE IN FLOWRATE AVERAGE (%)

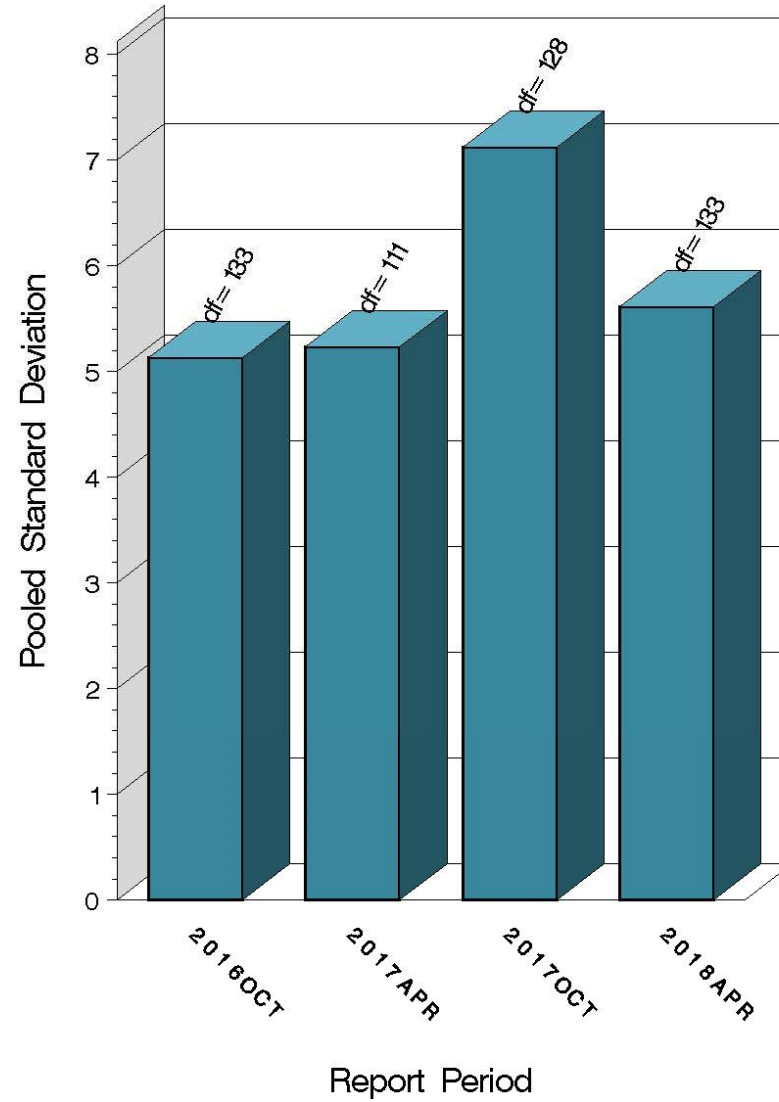
CUSUM Severity Analysis



05JUN18:11:15

EOFT (D 6795)

POOLED STANDARD DEVIATION



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EOFT (D 6795)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is on target for the period, with an average Δ/s value of 0.044.

Precision

Pooled s for this period is 5.61.

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	97	8,961	690.0
Total	97	8,961	690.0

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.