



Test Monitoring Center

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

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

MEMORANDUM: 14-036

DATE: November 19, 2014

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

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

SUBJECT: EOFT Testing from April 1, 2014 through September 30, 2014

A total of 144 EOFT tests were reported to the Test Monitoring Center during the report period from April 1, 2014 through September 30, 2014.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1014.doc/mem14-036.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

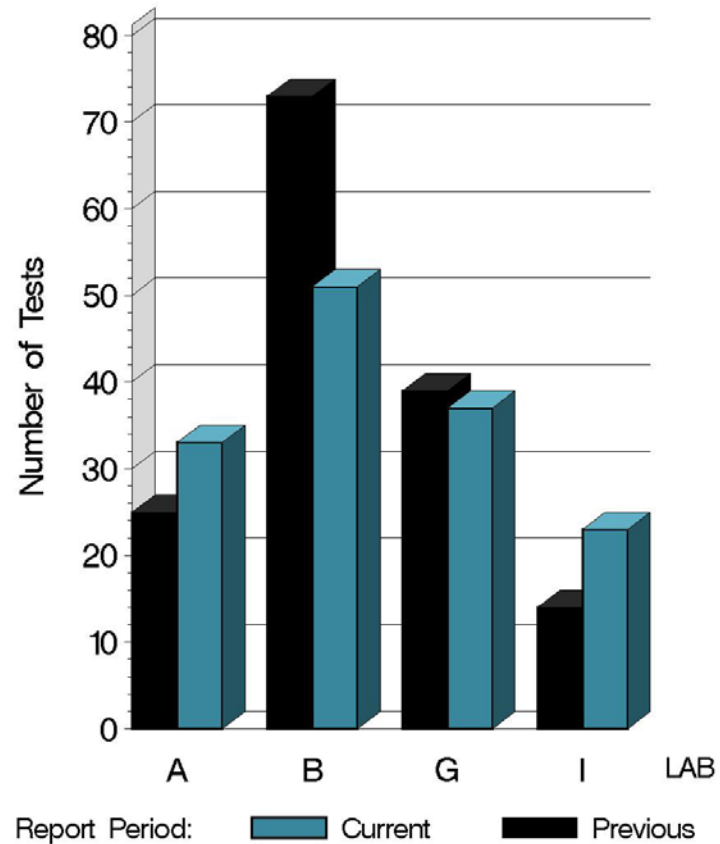
<ftp://ftp.astmtmc.cmu.edu/docs/bench/eoft/semiannualreports/eoft-10-2014.pdf>

Distribution: email

EOFT (D 6795)

Reporting Data	
Number of Labs	4

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



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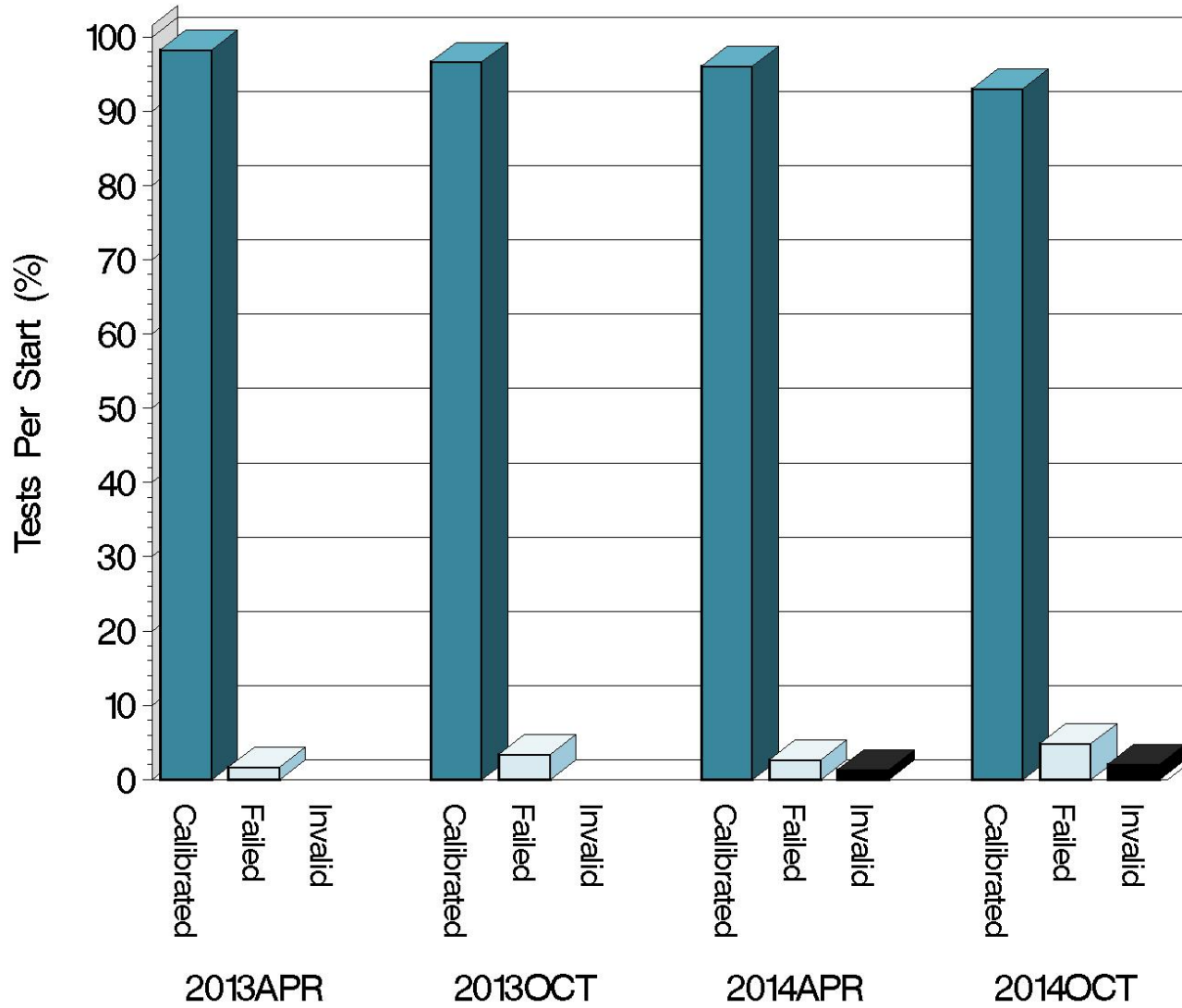
EOFT (D 6795)

Test Distribution by Oil and Validity

		Totals			
		78-1	78-2	This Period	Last Period
Accepted for Calibration	AC	0	134	134	145
Accepted for Target Generation	AG	0	0	0	0
Failed Acceptance Criteria	OC	0	7	7	5
Operationally Invalid (lab)	LC	0	0	0	0
Operationally Invalid (lab/TMC)	RC	0	0	0	0
Aborted Calibration	XC	0	3	3	1
Total		0	144	144	151

EOFT (D 6795)

CALIBRATION ATTEMPT SUMMARY



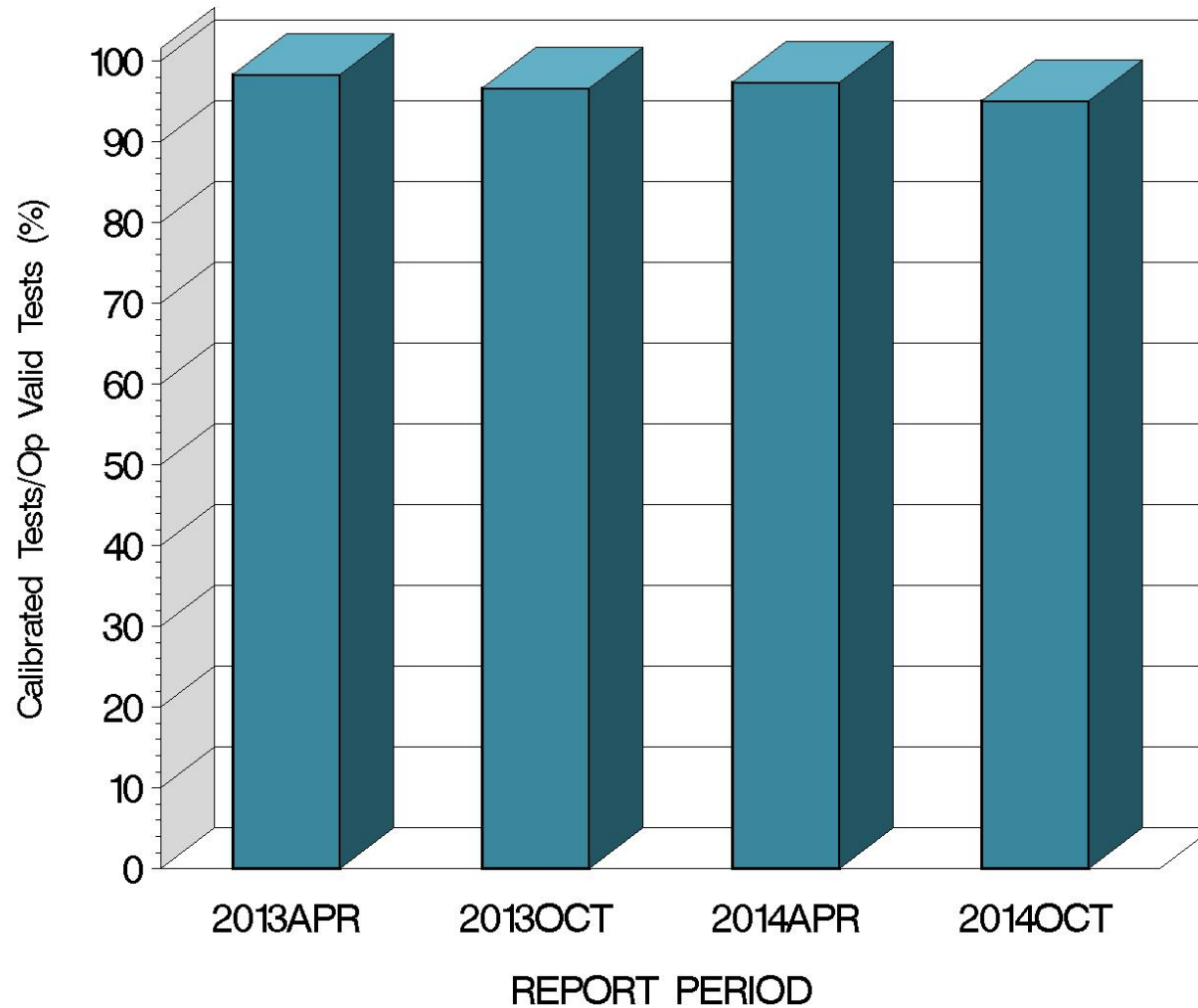
Resolution

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

Lab	Cause	Oil		Validity			Loss Rate		
		78-1	78-2	LC	RC	XC	Lost	Starts	%
A	Sample Prep Error	0	1	0	0	1	1	33	3%
I	Broken Burette	0	2	0	0	2	2	23	4%
	Lost	0	3	0	0	3			
	Starts	0	144	144	144	144			
	%	0%	2%	0%	0%	2%			

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

EOFT (D 6795)

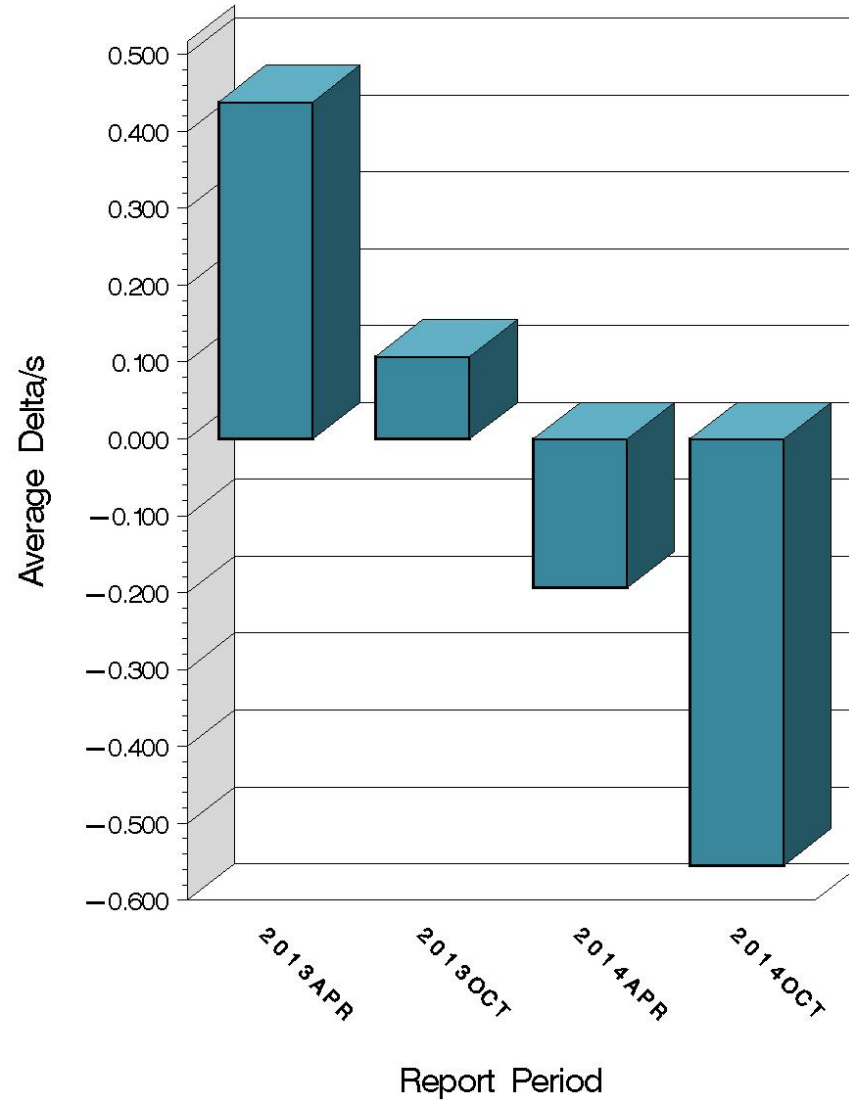
Average Δ/s By Laboratory		
Lab	n	CIFAYI
A	32	-0.542
B	51	-0.469
G	37	-0.667
I	21	-0.586
Industry	141	-0.555

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



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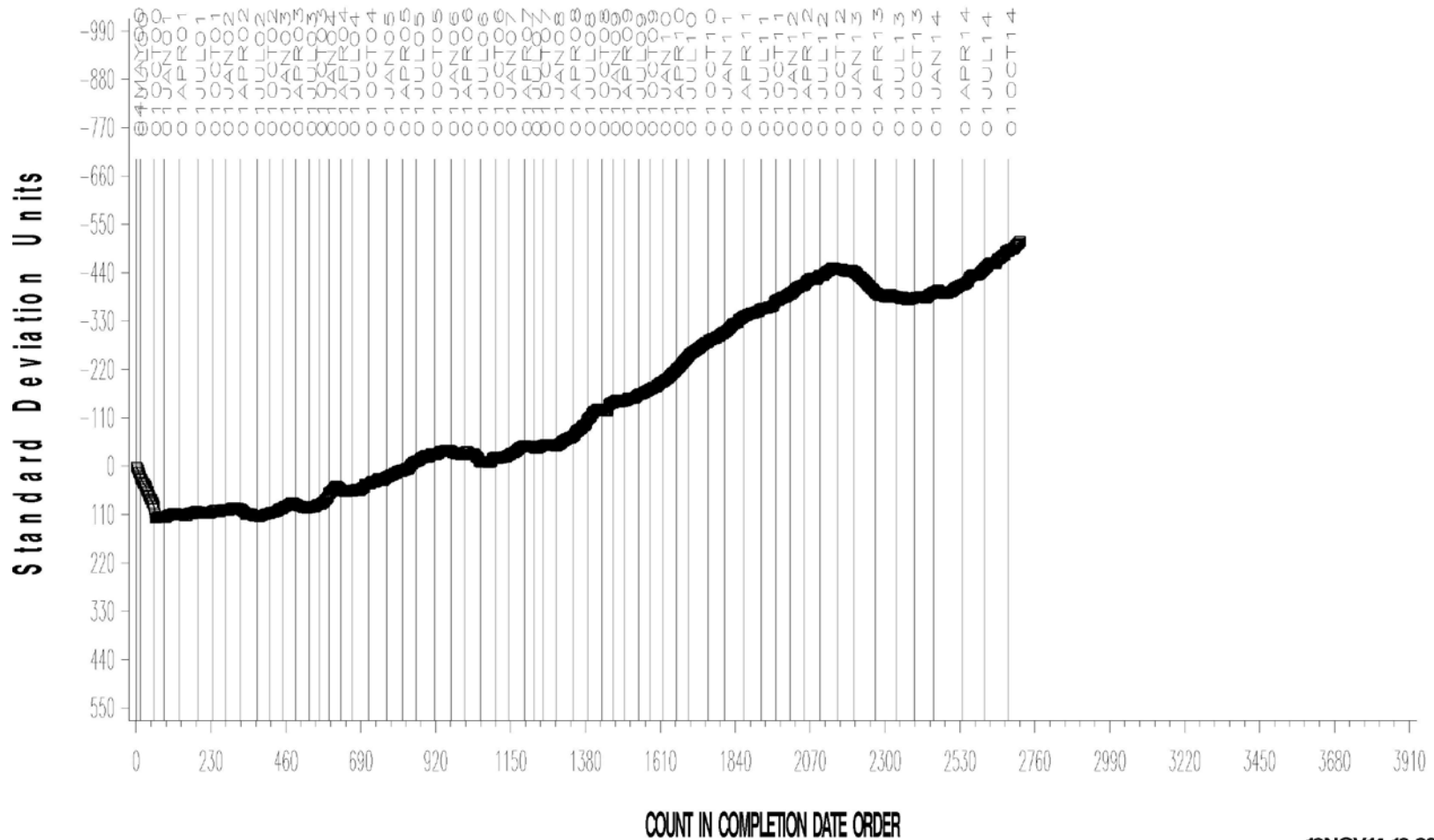
EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA



20 – 25 ML CHANGE IN FLOWRATE AVERAGE (%)

CUSUM Severity Analysis

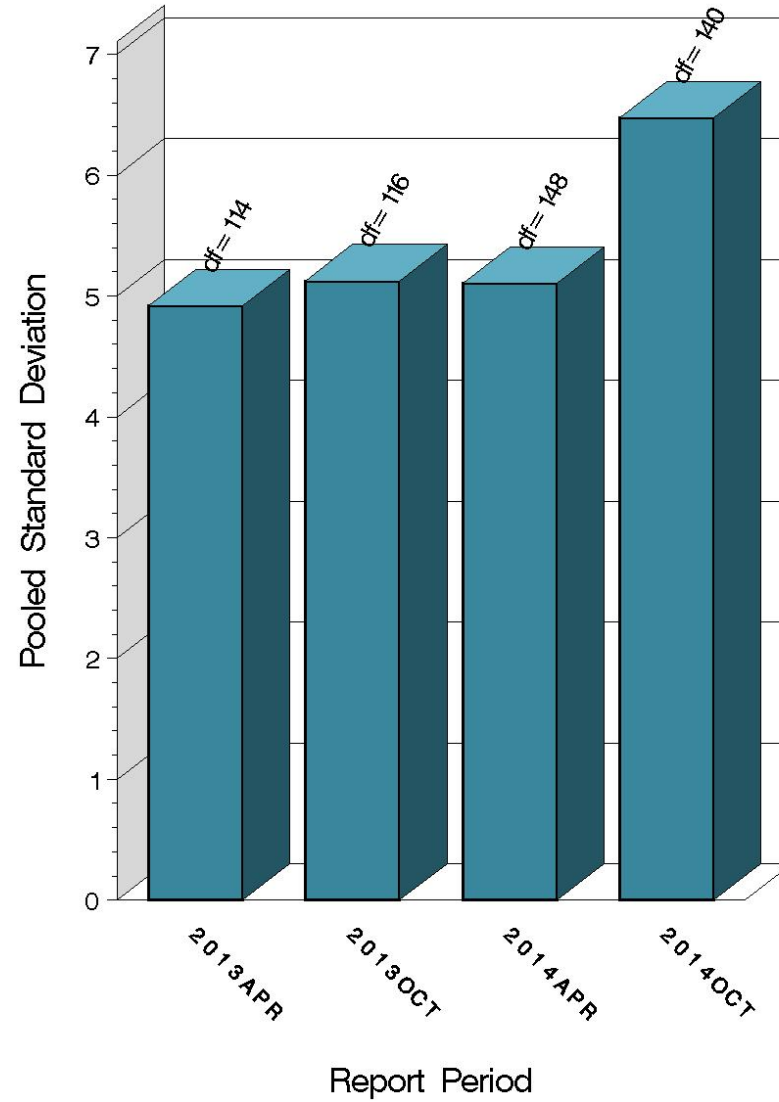


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POOLED STANDARD DEVIATION



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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, was slightly mild for the period, but also appears to be resuming the mild trend that has existed for several years in the test.

Precision

Pooled s for this period is 6.48.

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
78-1	0	0	0.0
78-2	59	261	20.1
79	0	13,324	1,026.0
Total	59	13,585	1,046.1

The TMC inventory of oil 78-2 is nearly depleted.
The TMC has procured a reblend of oil 78-2, called reference oil 79.
Plans to introduce reference oil 79 into EOFT testing are ongoing.