



## Test Monitoring Center

@ Carnegie Mellon University  
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<http://astmtmc.cmu.edu>  
412-365-1000

MEMORANDUM: 15-016

DATE: May 12, 2015

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

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

SUBJECT: EOFT Testing from October 1, 2014 through March 31, 2015

A total of 164 EOFT tests were reported to the Test Monitoring Center during the report period from October 1, 2014 through March 31, 2015.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0415.doc/mem15-016.mtk.doc

cc: F. M. Farber

J. A. Clark

EOFT Surveillance Panel

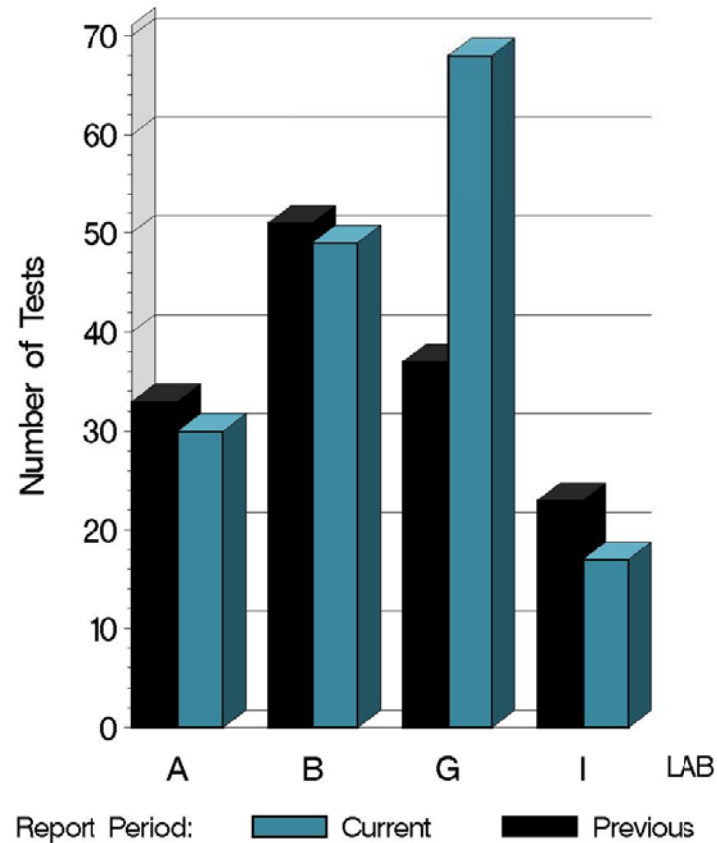
<ftp://ftp.astmtmc.cmu.edu/docs/bench/eoft/semiannualreports/eoft-04-2015.pdf>

Distribution: email

# EOFT (D 6795)

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED  
BY LAB AND REPORT PERIOD



13:33:52 11MAY2015

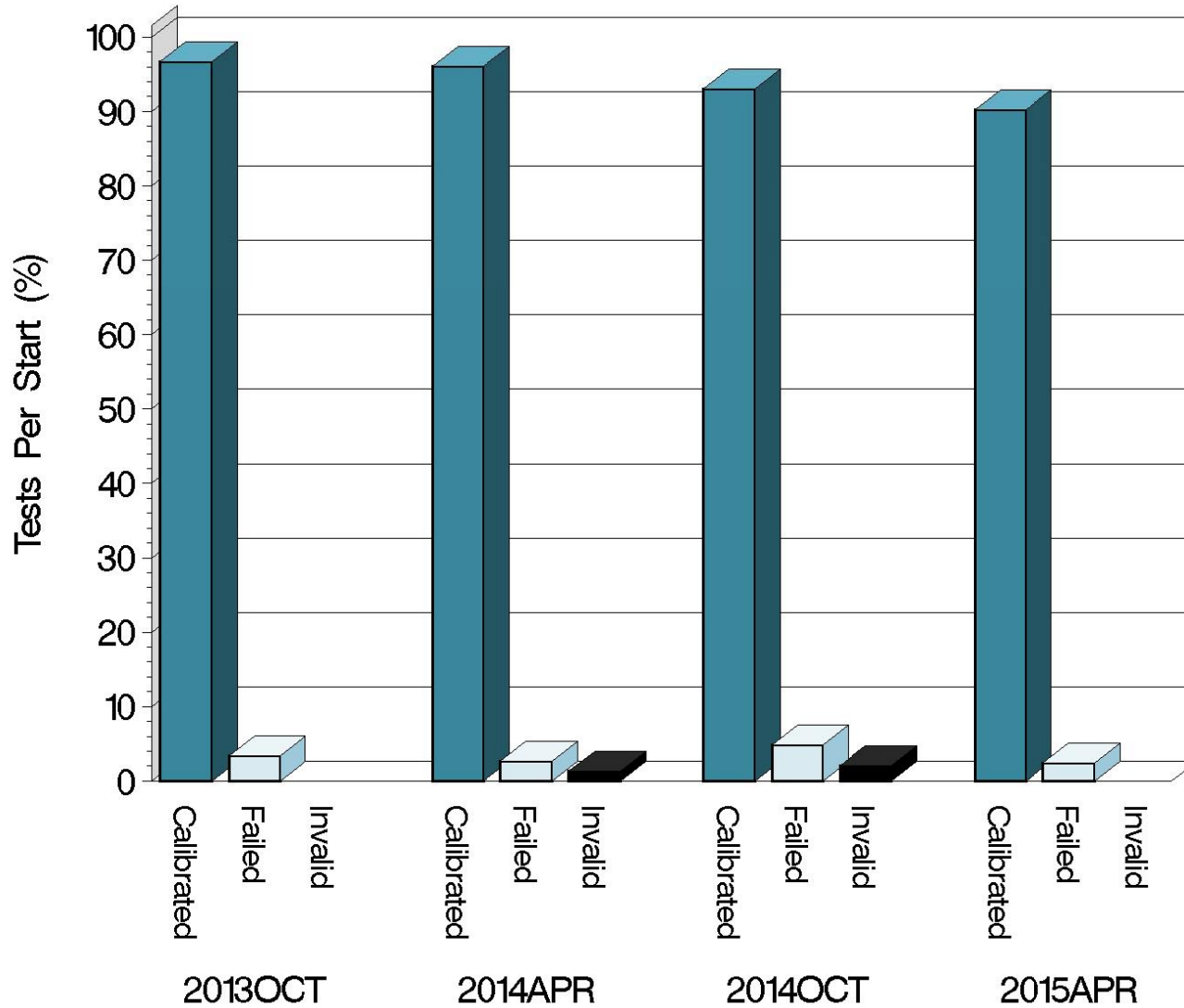
# EOFT (D 6795)

## Test Distribution by Oil and Validity

				Totals	
		78-2	79	This Period	Last Period
Accepted for Calibration	AC	134	14	148	134
Failed Acceptance Criteria	OC	2	2	4	7
Operationally Invalid (lab)	LC	0	0	0	0
Aborted Calibration	XC	0	0	0	3
Accepted for Target Generation	NI	0	11	11	0
Invalid Target Generation	LI	0	1	1	0
<b>Total</b>		<b>136</b>	<b>28</b>	<b>164</b>	<b>144</b>

# EOFT (D 6795)

## CALIBRATION ATTEMPT SUMMARY



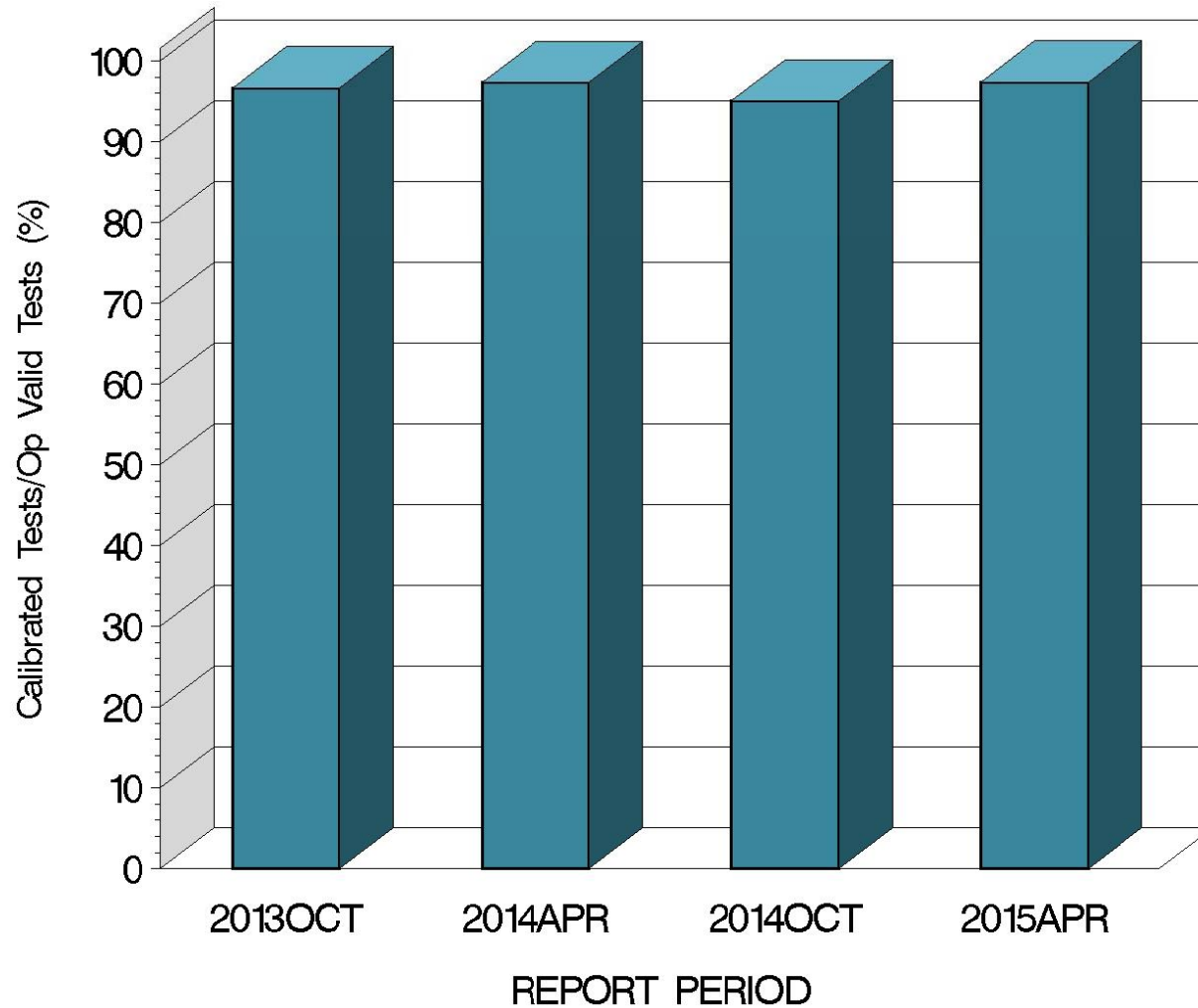
Resolution

Report Period

14:26:00 11MAY2015

# EOFT (D 6795)

OPERATIONALLY VALID TESTS  
MEETING ACCEPTANCE CRITERIA



14:26:00 11MAY2015

# EOFT (D 6795)

## CAUSES FOR LOST TESTS

Lab	Cause	Oil		Validity			Loss Rate		
		78-2	79	LC	RC	XC	Lost	Starts	%
-	No lost tests	0	0	0	0	0	0	152	0%
	Lost	0	0	0	0	0			
	Starts	136	16	152	152	152			
	%	0%	0%	0%	0%	0%			

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

## EOFT (D 6795)

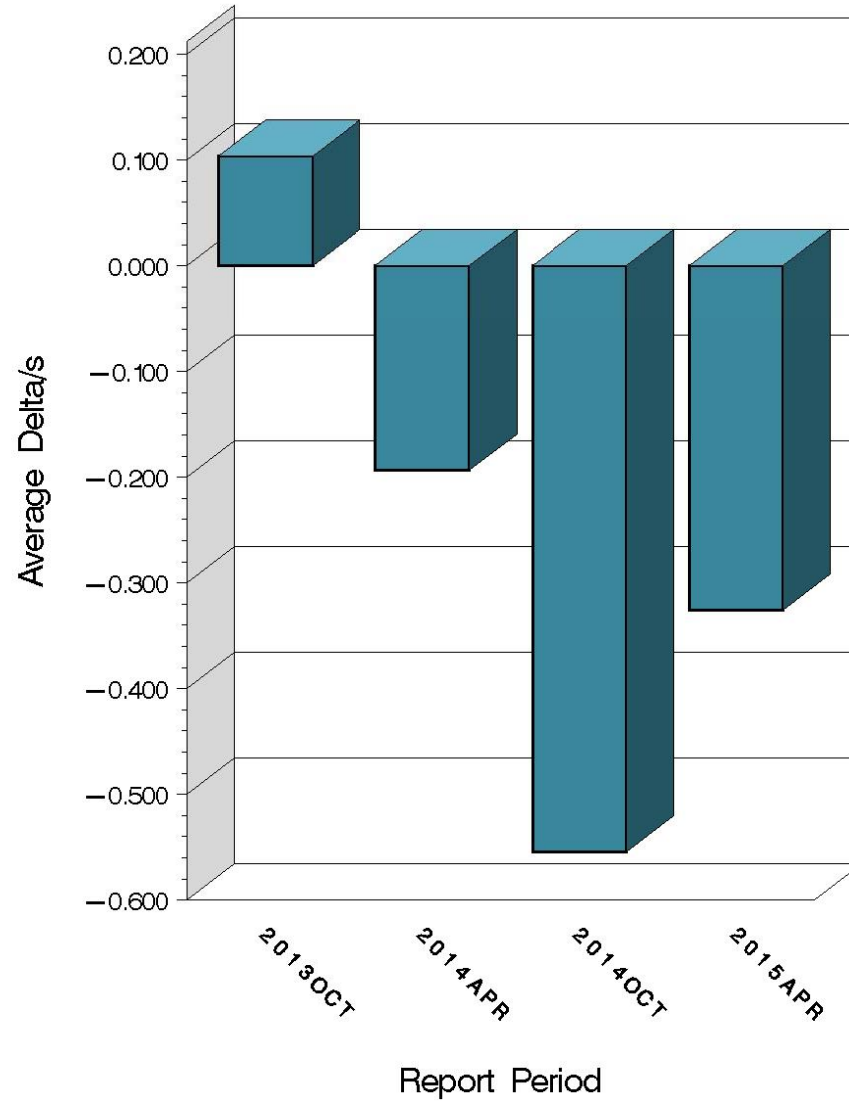
Average $\Delta/s$ By Laboratory		
Lab	n	CIFAYI
A	27	0.385
B	46	-0.794
G	65	-0.351
I	14	-0.043
Industry	152	-0.326

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



14:26:00 11MAY2015



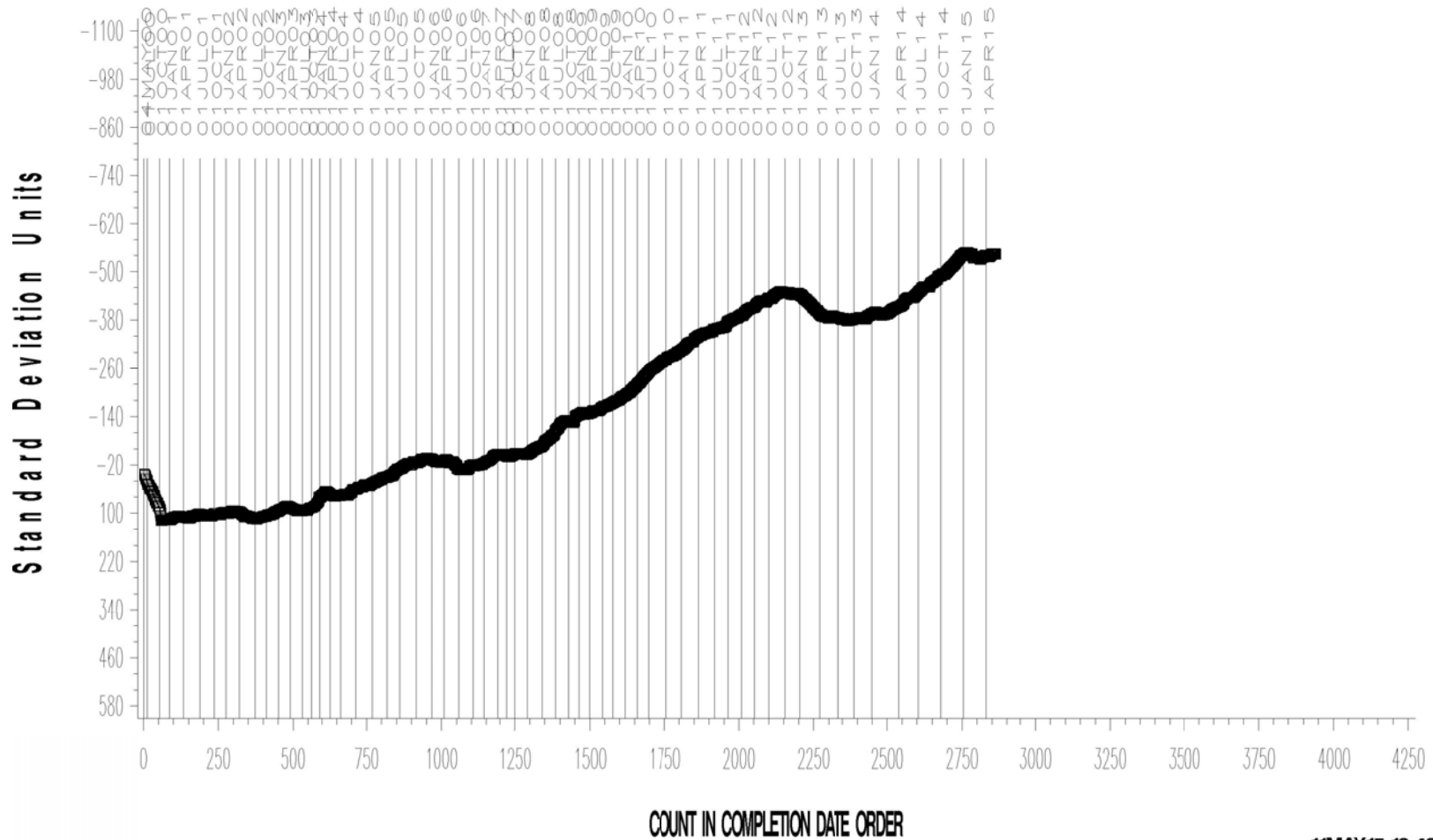
# EOFT (D 6795)

EOFT INDUSTRY OPERATIONALLY VALID DATA



20 — 25 ML CHANGE IN FLOWRATE AVERAGE (%)

CUSUM Severity Analysis

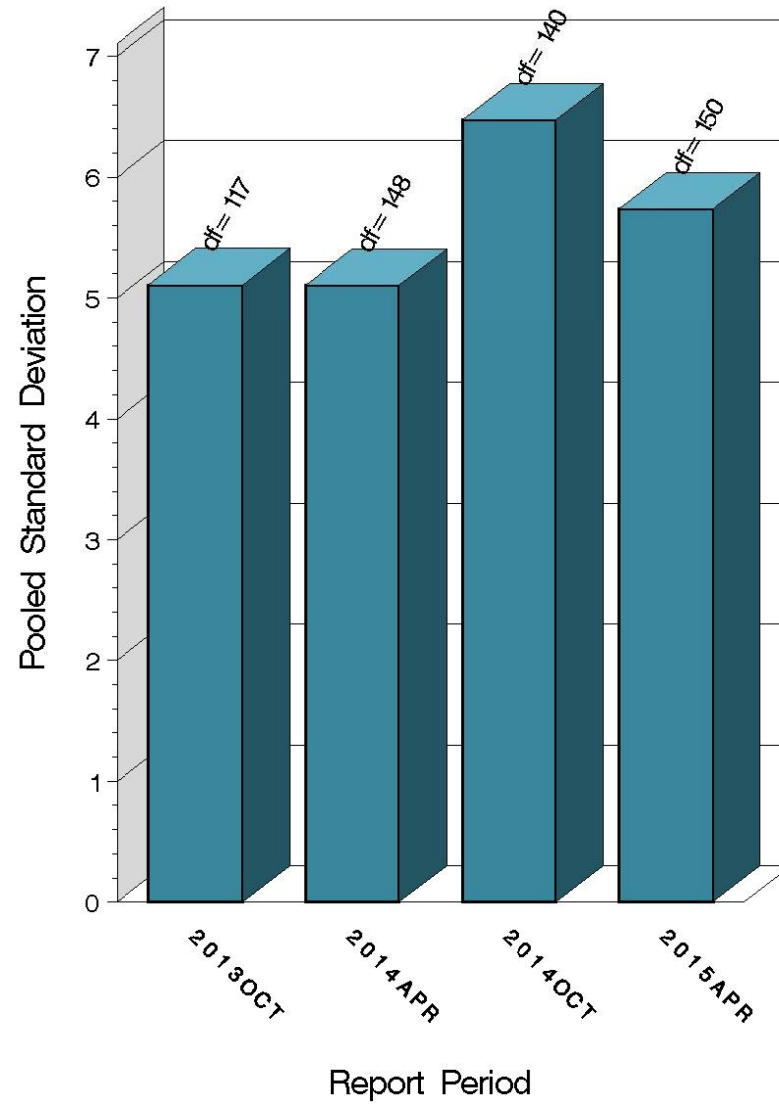


11MAY15: 13:48



# EOFT (D 6795)

## POOLED STANDARD DEVIATION



13:33:52 11MAY2015

# 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, and appears to be resuming the mild trend that has existed for several years in the test.

### Precision

Pooled  $s$  for this period is 5.74.

Precision, as measured by pooled standard deviation, has improved slightly compared to last period and is 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
78-2	47	0	0.0
79	60	12,805	986.0
Total	107	12,805	986.0

The TMC inventory of oil 78-2 is depleted.

The TMC has procured a reblend of oil 78-2, called reference oil 79, which was introduced into EOFT testing this period.