



Test Monitoring Center

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

MEMORANDUM: 15-017

DATE: May 18, 2015

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

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

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

A total of 986 EOWT 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/mem15-017.mtk.doc

cc: F. M. Farber

J. A. Clark

EOWT Surveillance Panel

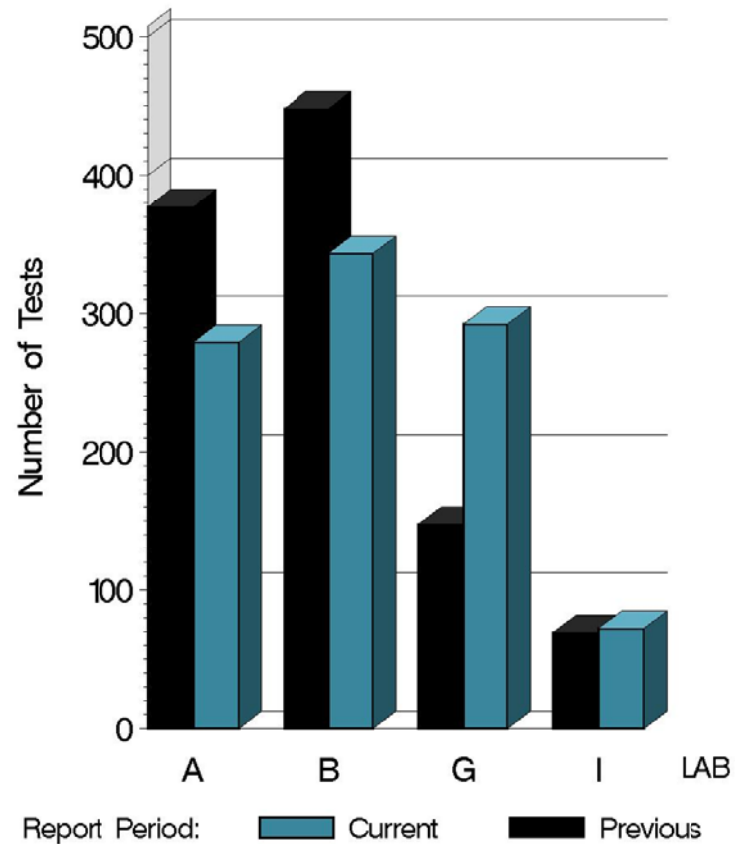
<ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-04-2015.pdf>

Distribution: email

EOWT (D 6794)

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



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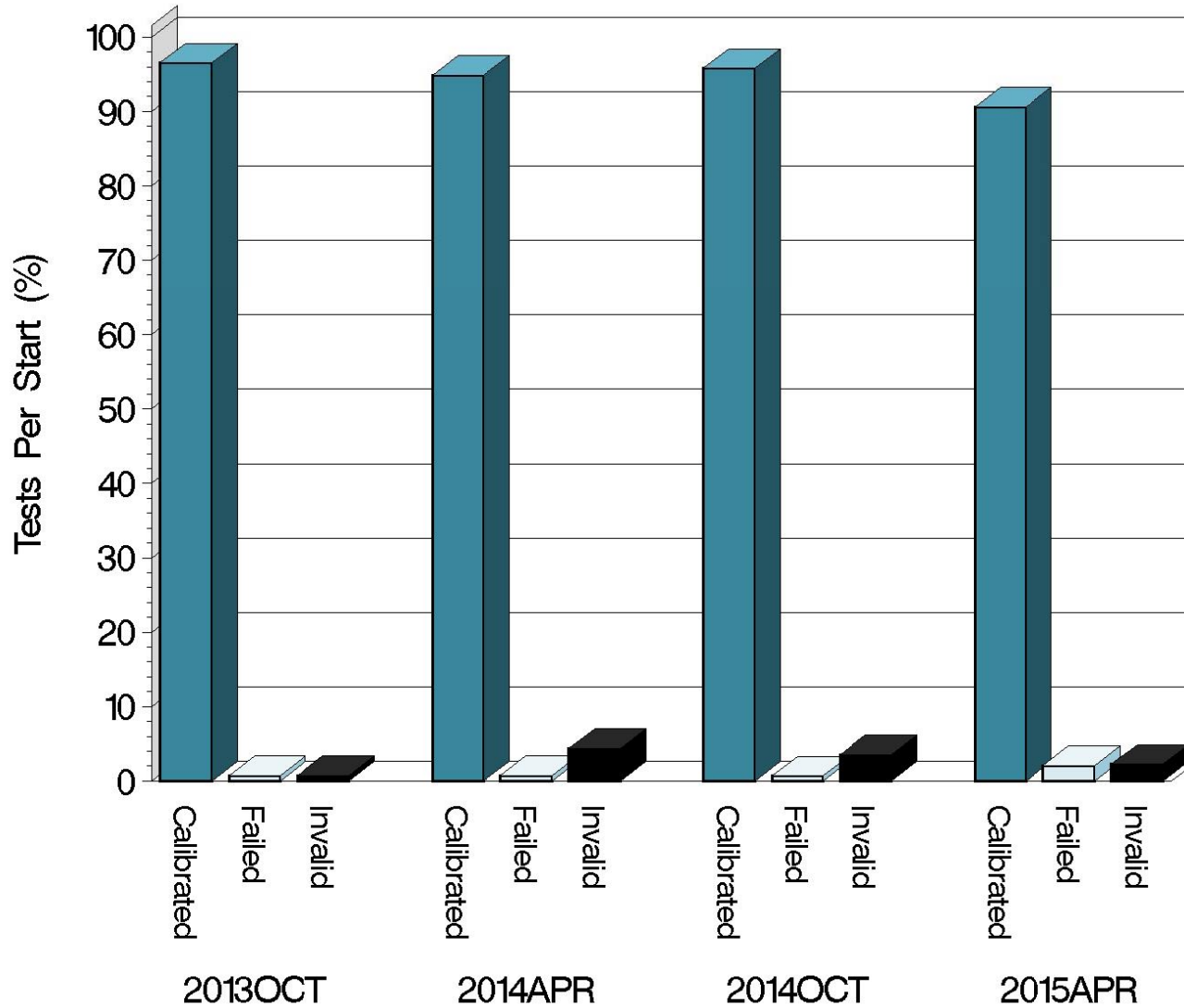
EOWT (D 6794)

Test Distribution by Oil and Validity

		By Oil				By Treat Level				Totals	
		77-2	77-3	78-2	79	0.6	1.0	2.0	3.0	This Period	Last Period
Accepted for Calibration	AC	505	0	266	122	224	224	224	221	893	998
Rejected Tests	OC	4	0	7	9	9	4	3	4	20	7
Operationally Invalid (lab)	LC	0	0	0	0	0	0	0	0	0	8
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0	0	0
Aborted Calibration	XC	4	0	10	7	5	5	5	6	21	26
Acceptable Donated Tests	NI	0	0	0	37	9	9	9	10	37	0
Unacceptable Donated Tests	MI	0	0	0	11	3	3	3	2	11	0
Invalid Donated Tests	LI	0	0	0	4	1	1	1	1	4	0
Aborted Donated Tests	XI	0	0	0	0	0	0	0	0	0	0
Total		513	0	283	190	251	246	245	244	986	1039

EOWT (D 6794)

CALIBRATION ATTEMPT SUMMARY



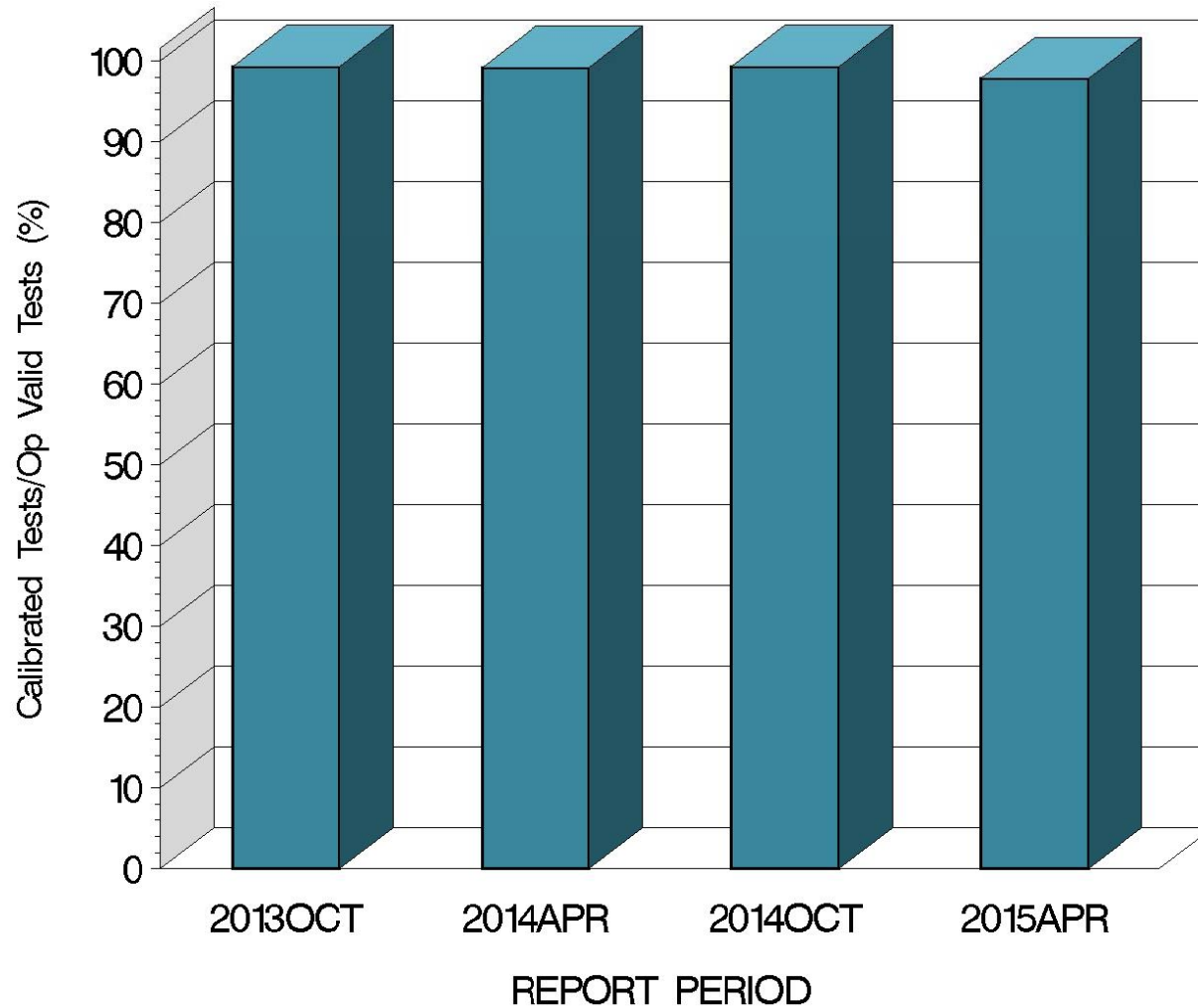
Resolution

Report Period

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EOWT (D 6794)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



8:14:19 13MAY2015

EOWT (D 6794)

CAUSES FOR LOST TESTS

		Oil				Validity			Loss Rate		
Lab	Cause	77-2	77-3	78-2	79	LC	RC	XC	Lost	Starts	%
B	Sample Prep Error	0	0	6	2	0	0	8	8	327	2%
	Sample Discarded	0	0	0	4	0	0	4	4		1%
	Power Failure	0	0	0	1	0	0	1	1		0.3%
G	Power Failure	4	0	0	0	0	0	4	4	280	1%
	Mixing Error	0	0	4	0	0	0	4	4		1%
Lost		4	0	10	7	0	0	21			
Starts		513	0	283	138	986	986	986			
%		0.8%	0%	4%	5%	0%	0%	2%			

1

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

EOWT (D 6794)

Average Δ /s By Laboratory			
Treat Level	Lab	n	CFAYI
0.6	A	71	-0.678
	B	79	0.176
	G	68	0.472
	I	15	1.188
	Industry	233	0.067
1.0	A	66	-0.510
	B	79	-0.121
	G	68	0.312
	I	15	1.355
	Industry	228	-0.007
2.0	A	65	-0.635
	B	79	-0.020
	G	68	0.394
	I	15	1.178
	Industry	227	0.007
3.0	A	65	-0.330
	B	77	0.269
	G	68	0.397
	I	15	1.388
	Industry	225	0.209

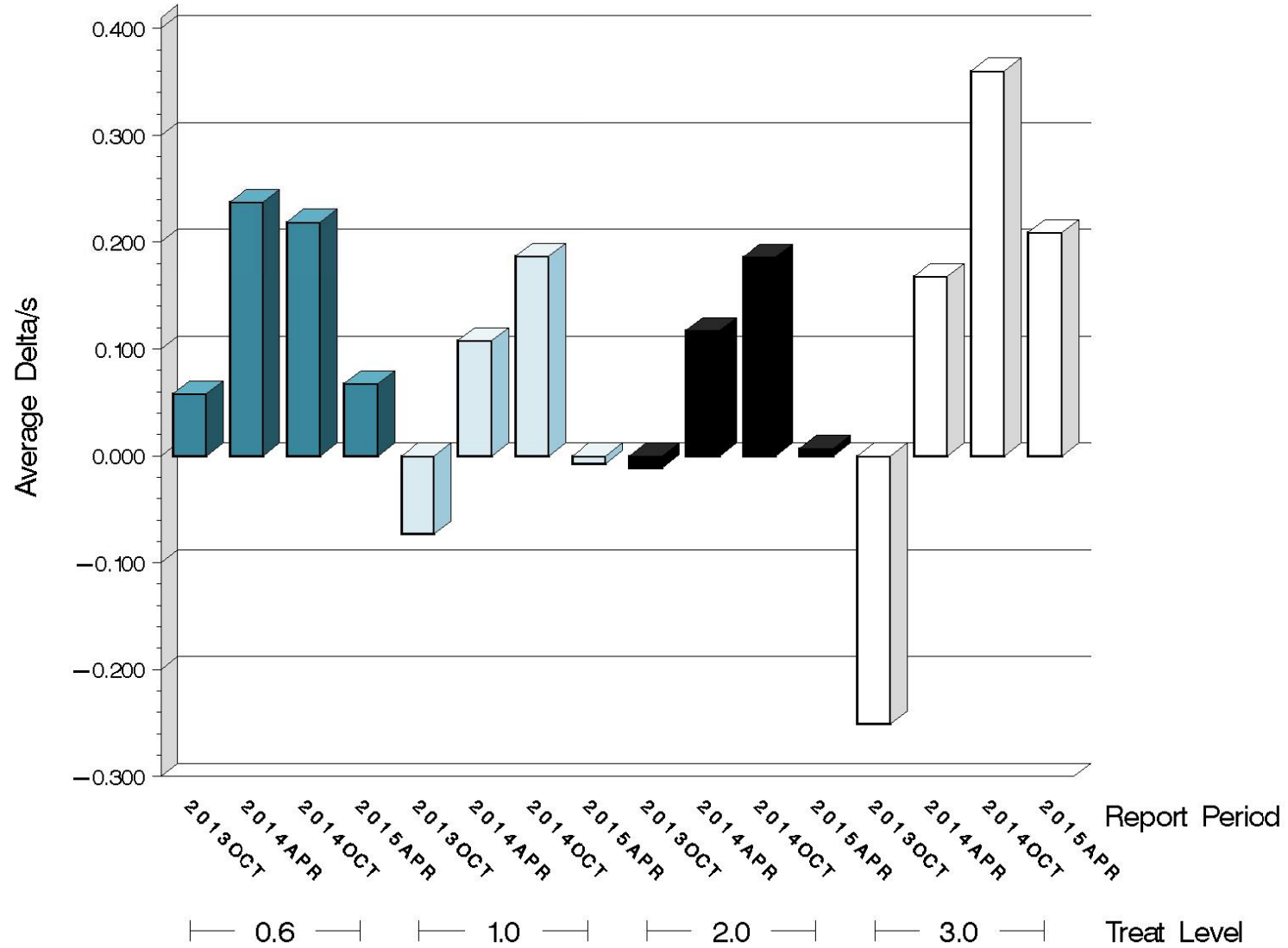
EOWT (D 6794)

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

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

EOWT (D 6794)

AVERAGE DELTA/S



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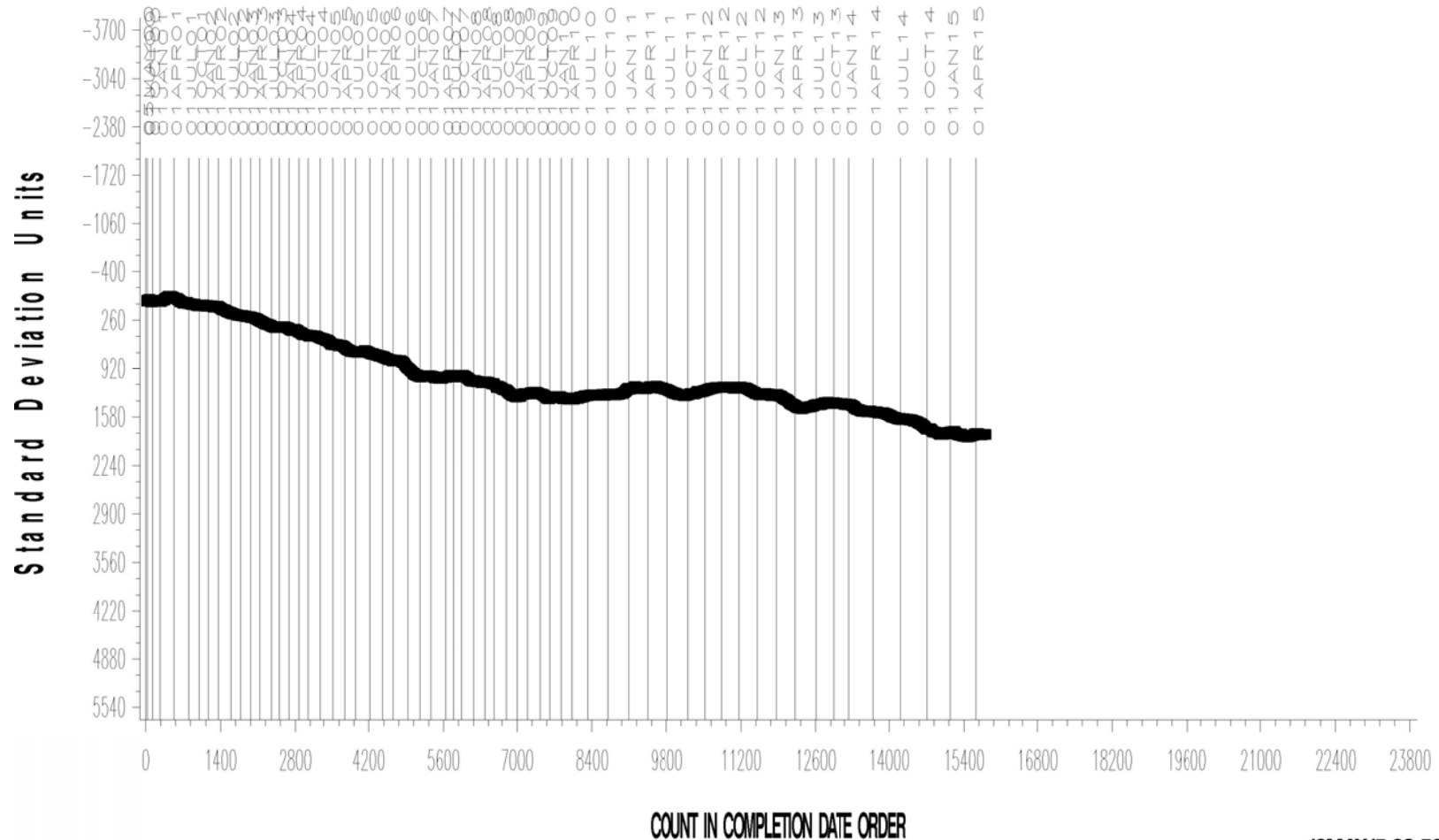
EOWT (D 6794)

EOWT INDUSTRY OPERATIONALLY VALID DATA



20 – 25 ML CHANGE IN FLOWRATE AVG.

CUSUM Severity Analysis

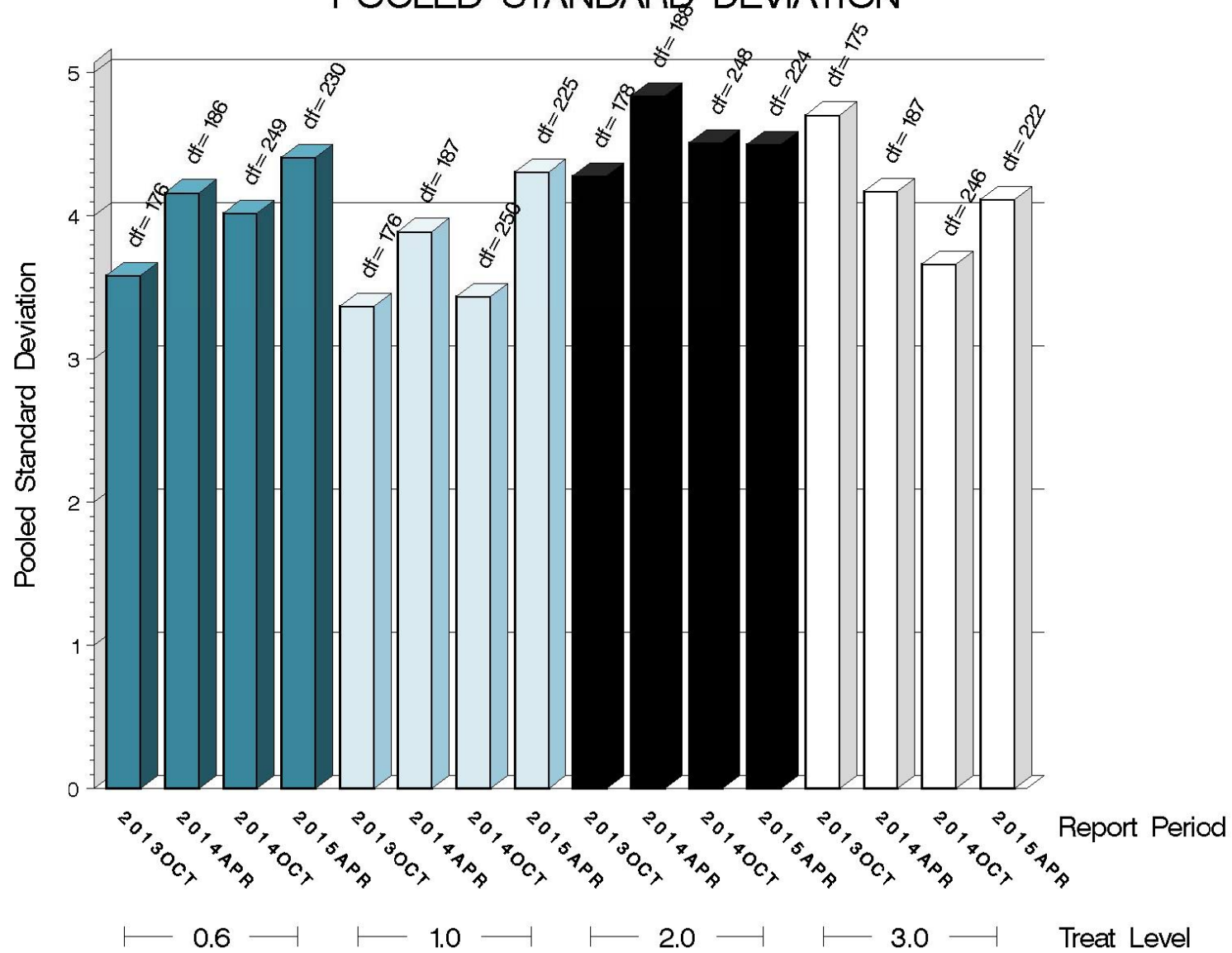


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EOWT (D 6794)

POOLED STANDARD DEVIATION



10:48:47 13MAY2015

EOWT (D 6794)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is on target.

Precision

Pooled s values for this period are 4.41 (0.6%), 4.30 (1.0%), 4.50 (2.0%), and 4.11 (3.0%).

Precision, as measured by pooled standard deviation, is still comparable to historical performance.

EOWT (D 6794)

INFORMATION LETTERS

No EOWT Information Letters were issued this period.

EOWT (D 6794)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
77-2	79	1,532	118.0
77-3	48	11,623	895.0
78-2	54	0	0.0
79	116	12,805	986.0
Total	297	25,960	1,999.0

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 EOWT testing this period.

The TMC has procured a reblend of oil 77-2, reference oil 77-3, which has not yet been introduced into EOWT at this time.