



Test Monitoring Center

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

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

MEMORANDUM: 13-066

DATE: November 18, 2013

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

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

SUBJECT: EOWT Testing from April 1, 2013 through September 30, 2013

A total of 741 EOWT tests were reported to the Test Monitoring Center during the report period from April 1, 2013 through September 30, 2013.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1013.doc/mem13-066.mtk.doc

cc: F. M. Farber

J. A. Clark

EOWT Surveillance Panel

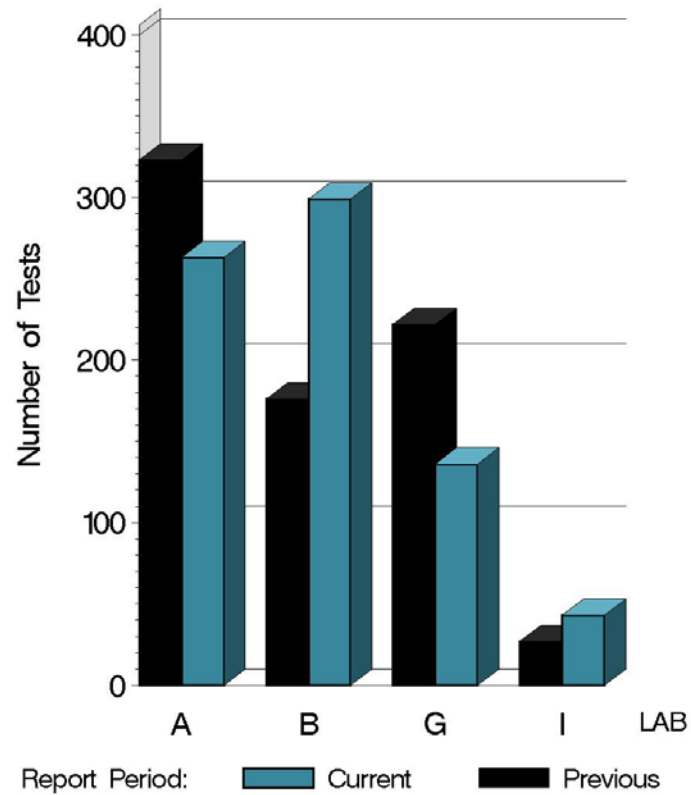
<ftp://ftp.astmtmc.cmu.edu/docs/bench/eowt/semiannualreports/eowt-10-2013.pdf>

Distribution: email

EOWT (D 6794)

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



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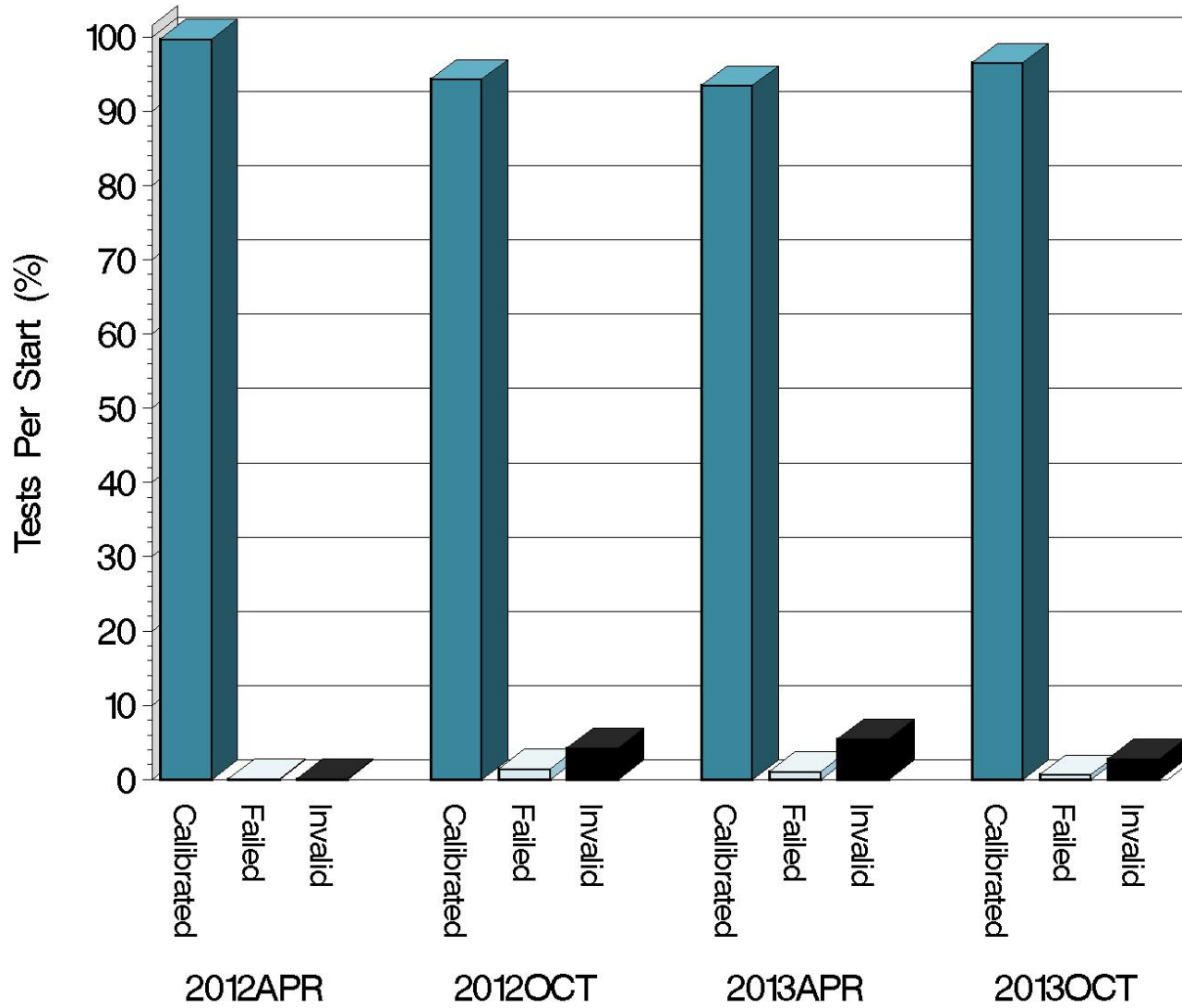
EOWT (D 6794)

Test Distribution by Oil and Validity

		By Oil				By Treat Level				Totals	
		77-1	77-2	78-1	78-2	0.6	1.0	2.0	3.0	This Period	Last Period
Accepted for Calibration	AC	285	164	8	258	178	180	179	178	715	699
Acceptable Donated Tests	NI	16	0	0	0	4	4	4	4	16	39
Unacceptable Donated Tests	MI	0	0	0	0	0	0	0	0	0	1
Rejected Tests	OC	1	0	0	4	1	0	3	1	5	8
Operationally Invalid (lab)	LC	1	0	0	1	1	0	0	1	2	0
Operationally Invalid (lab/TMC)	RC	0	0	0	0	0	0	0	0	0	0
Aborted Calibration	XC	0	3	0	0	2	1	0	0	3	1
Total		303	167	8	263	186	185	186	184	741	748

EOWT (D 6794)

CALIBRATION ATTEMPT SUMMARY



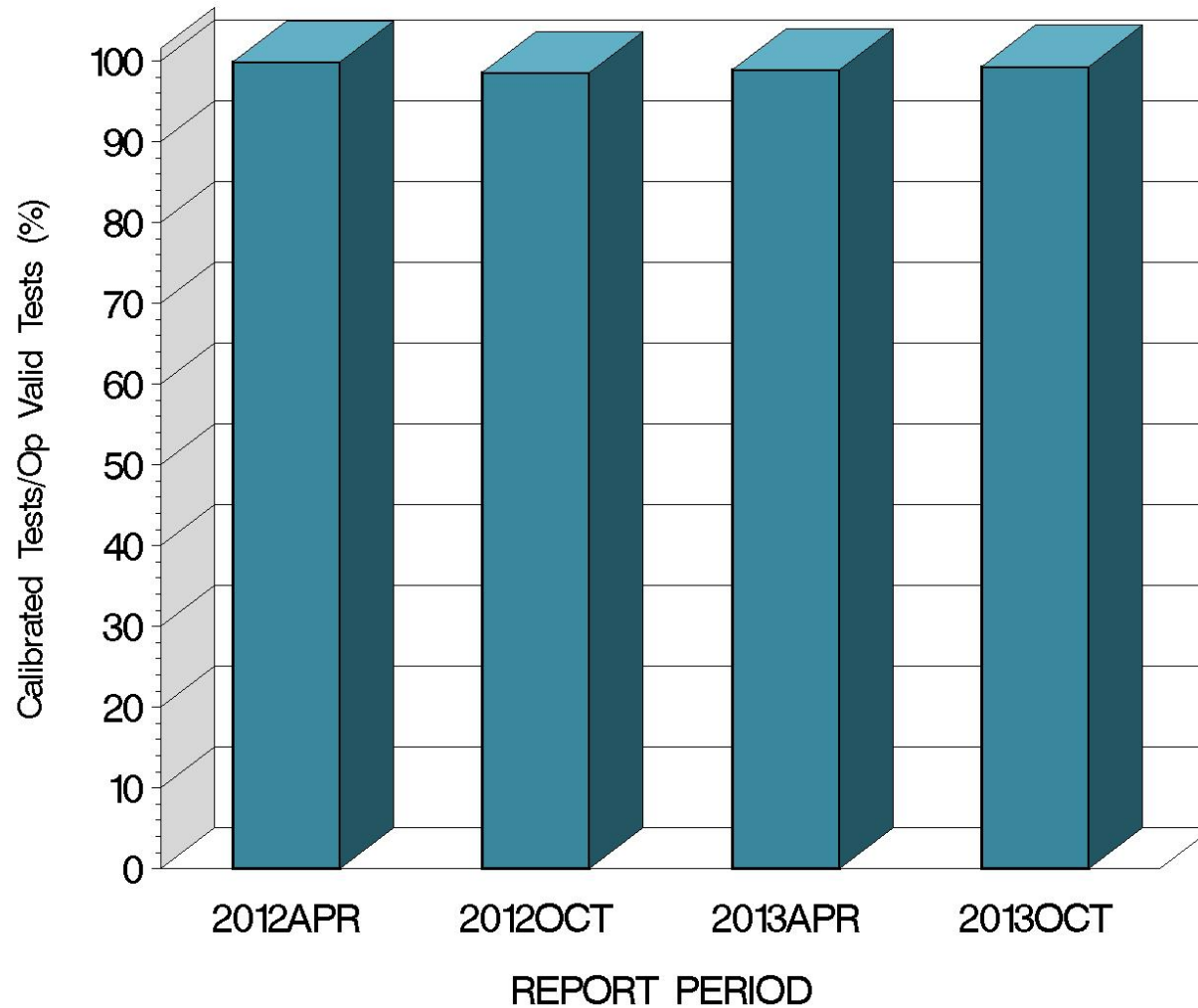
Resolution

Report Period

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EOWT (D 6794)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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EOWT (D 6794)

CAUSES FOR LOST TESTS

		Oil				Validity			Loss Rate		
Lab	Cause	77-1	77-2	78-1	78-2	LC	RC	XC	Lost	Starts	%
A	Sample Spill	1	1	0	1	2	0	1	3	725	
A	Mixing Error	0	2	0	0	0	0	2	2	725	
	Lost	1	3	0	1	2	0	3			
	Starts	303	167	8	263	725	725	725			
	%	0.3%	2%	0%	0.4%	0%	0%	0%			

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	64	-0.216
	B	70	0.080
	G	34	0.463
	I	11	0.367
	Industry	179	0.064
1.0	A	64	-0.216
	B	71	-0.229
	G	34	0.206
	I	11	0.820
	Industry	180	-0.078
2.0	A	66	-0.082
	B	71	-0.404
	G	34	0.619
	I	11	1.166
	Industry	182	-0.001
3.0	A	64	-0.114
	B	71	-0.963
	G	34	0.481
	I	10	1.086
	Industry	179	-0.271

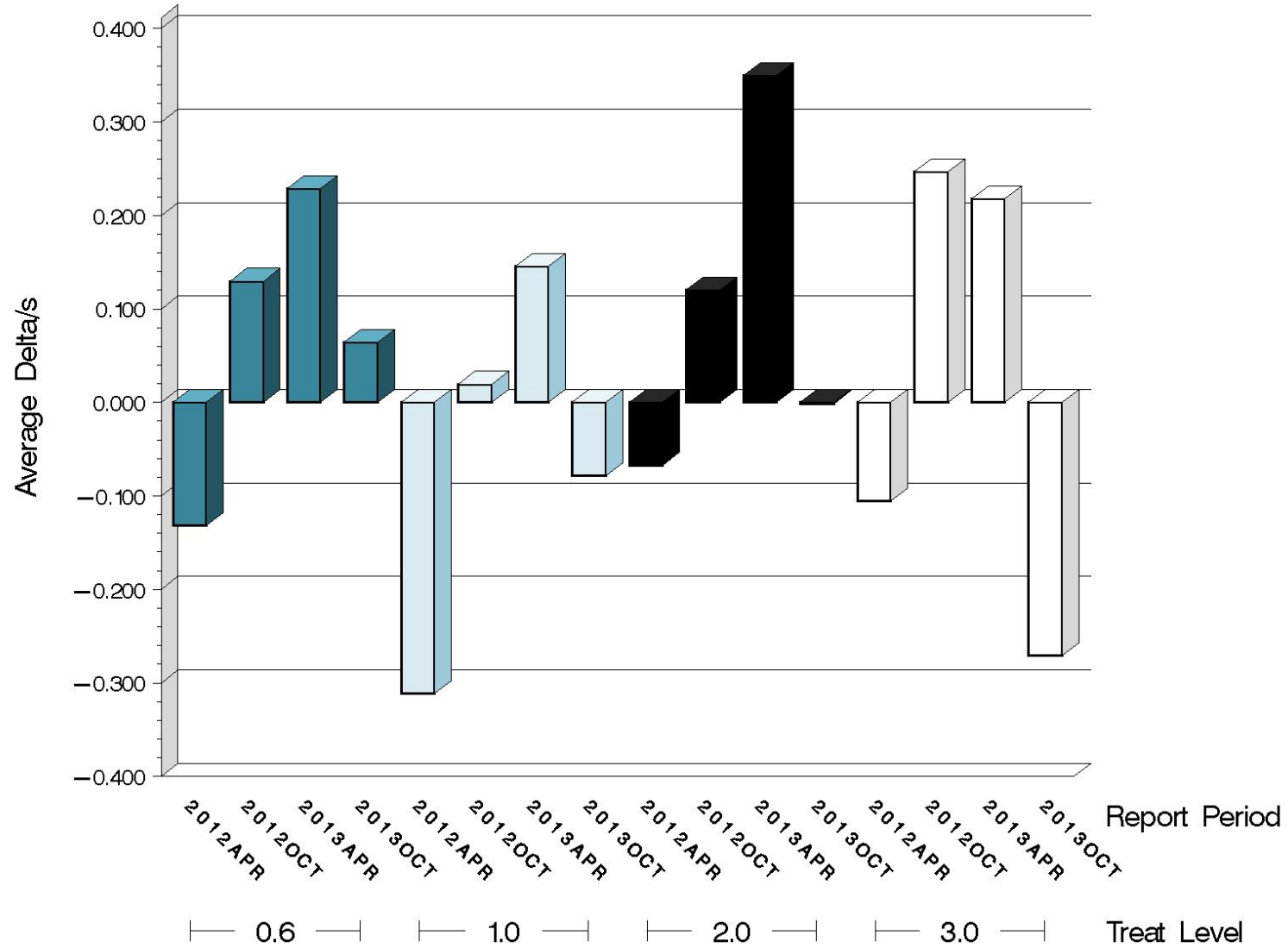
EOWT (D 6794)

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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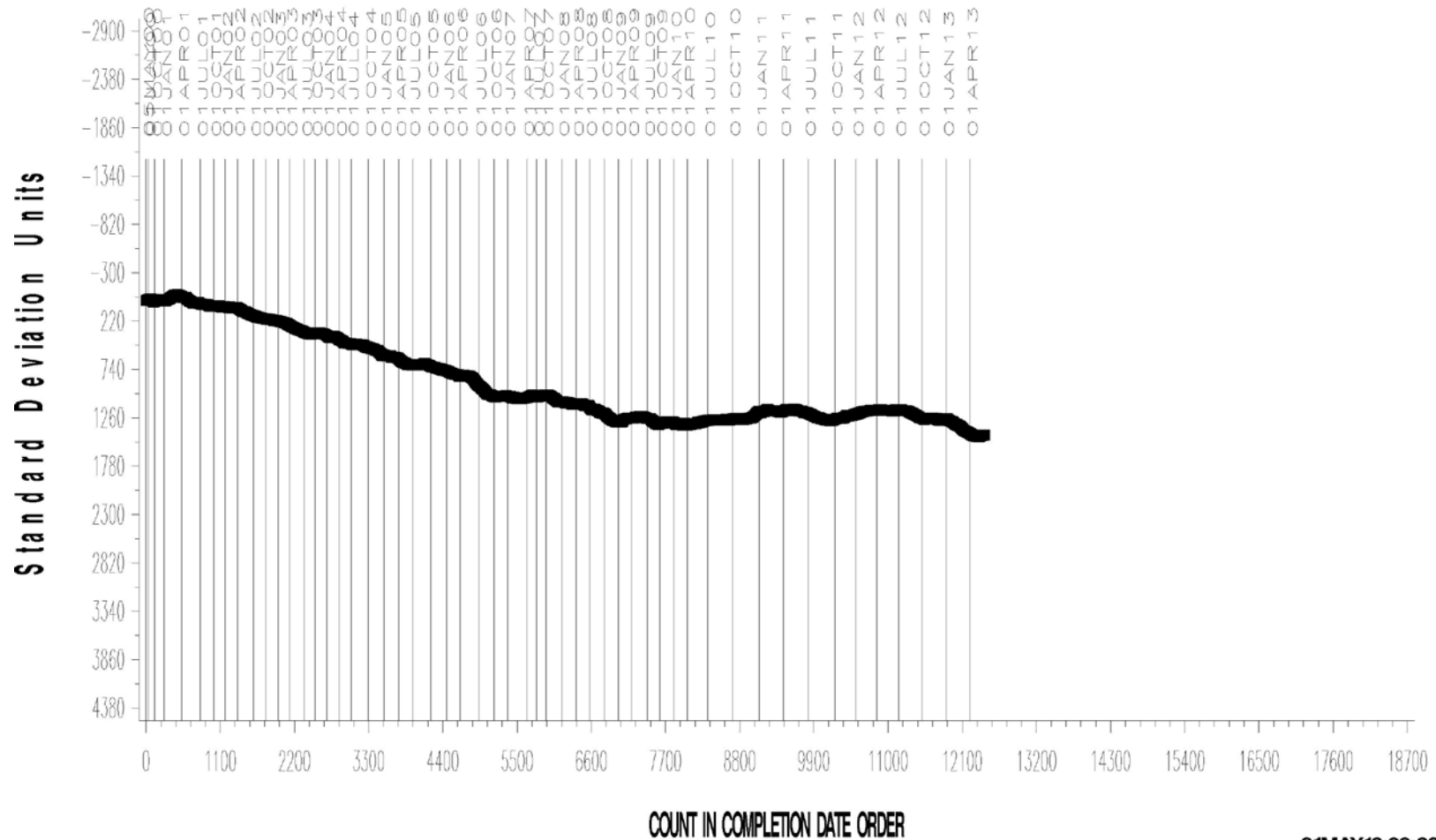
EOWT (D 6794)

EOWT INDUSTRY OPERATIONALLY VALID DATA



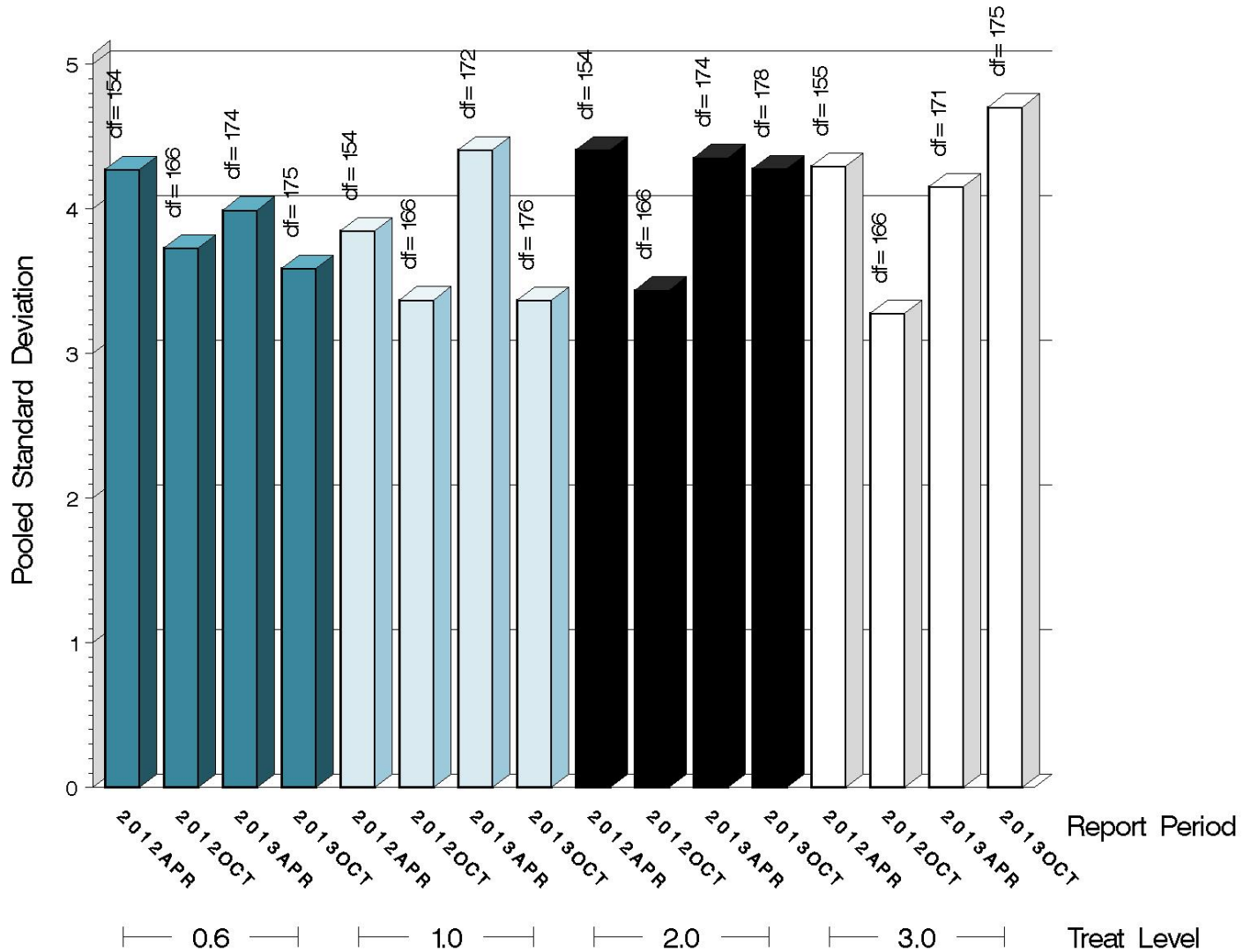
20 — 25 ML CHANGE IN FLOWRATE AVG.

CUSUM Severity Analysis



EOWT (D 6794)

POOLED STANDARD DEVIATION



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EOWT (D 6794)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, CIFA severity, as measured by CUSUM plotting, is trending slightly severe.

Precision

Pooled s values for this period are 3.59 (0.6%), 3.37 (1.0%), 4.28 (2.0%), and 4.70 (3.0%).

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

EOWT (D 6794)

INFORMATION LETTERS

EOWT Information Letter 13-1, Sequence No. 1, dated September 18, 2013.

- Revision of Water Amounts used in Sample Blending Procedures

EOWT (D 6794)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (290 mL)	Gallons
77-1	41	0	0
77-2	75	3163	243.6
78-1	0	0	0
78-2	83	1406	108.3
Total	199	4569	351.9

The TMC supply of reference oil 77-1 has been depleted.