



Test Monitoring Center

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

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

MEMORANDUM: 14-010

DATE: May 20, 2014

TO: Leonard Orzech,
Chairman, Ball Rust Test Surveillance Panel

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

SUBJECT: BRT Testing from October 1, 2013 through March 31, 2014

A total of 162 BRT tests were reported to the Test Monitoring Center during the report period from October 1, 2013 through March 31, 2014.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0414.doc/mem14-010.mtk.doc

cc: F. M. Farber

J. A. Clark

BRT Surveillance Panel

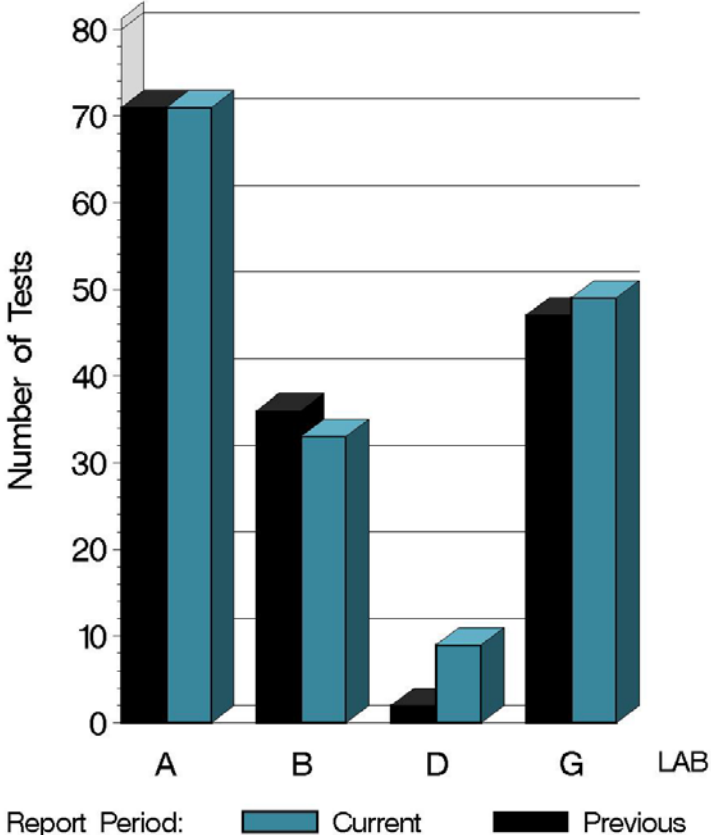
<ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-04-2014.pdf>

Distribution: email

BRT (D 6557)

Reporting Data	
Number of Labs	4

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



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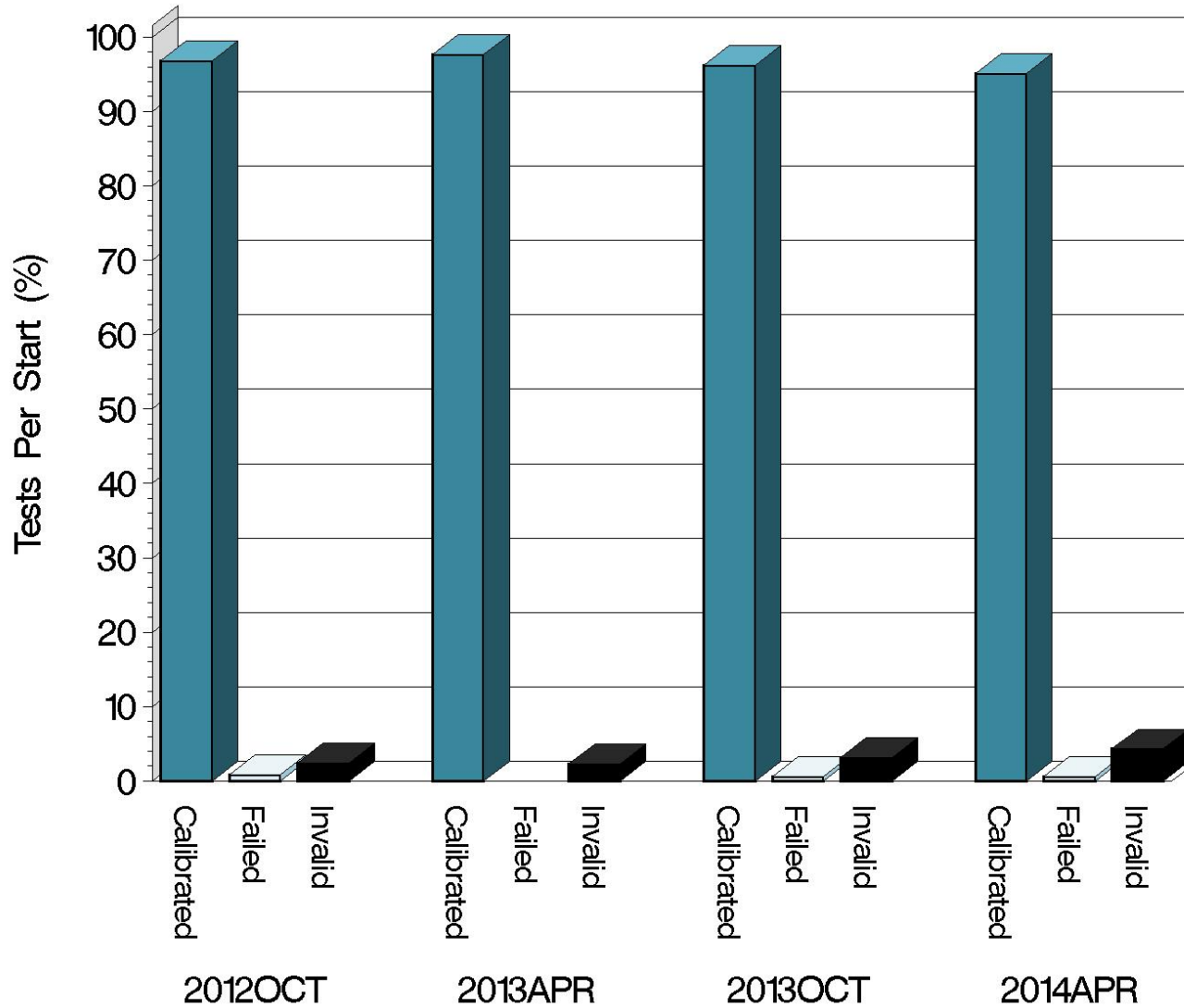
BRT (D 6557)

Test Distribution by Oil and Validity

		1006	81	82	Totals	
					This Period	Last Period
Accepted for calibration	AC	42	74	38	154	150
Rejected	OC	0	0	1	1	1
Invalidated by Lab	LC	0	0	0	0	0
Invalidated by TMC	RC	0	0	1	1	0
Aborted	XC	2	0	4	6	5
Hardware Approval run	NI	0	0	0	0	0
Unacceptable Approval run	MI	0	0	0	0	0
Total		44	74	44	162	156

BRT (D 6557)

CALIBRATION ATTEMPT SUMMARY



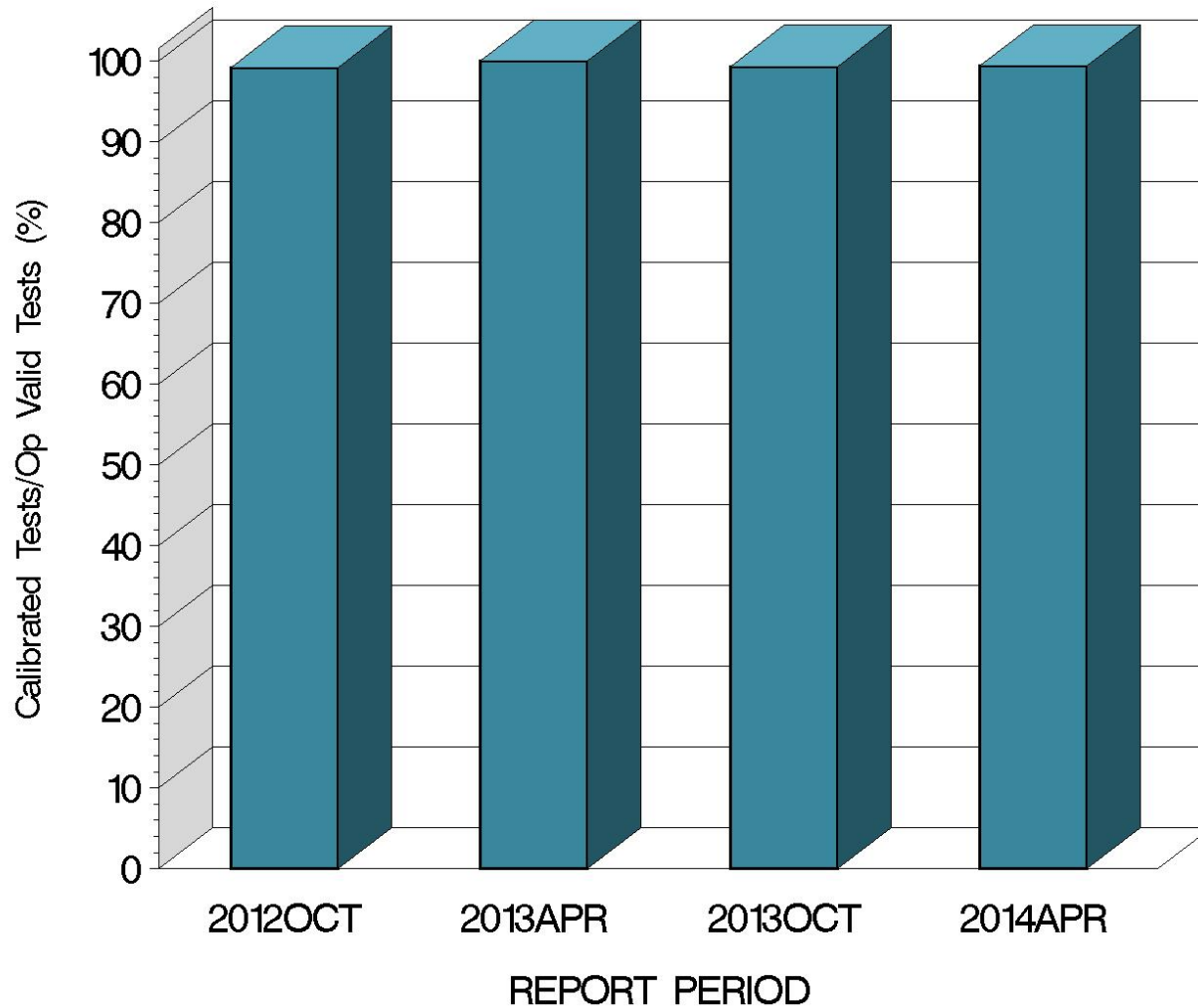
Resolution

Report Period

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BRT (D 6557)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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BRT (D 6557)

CAUSES FOR LOST TESTS

Lab	Cause	Oil			Validity			Loss Rate		
		1006	81	82	LC	RC	XC	Lost	Starts	%
B	Shaker Table Failure	0	0	1	0	0	1	1	33	3%
D	Shaker Table Failure	0	0	2	0	0	2	3	9	33%
	Computer Failure	1	0	0	0	0	1			
G	Image Calibration Error	0	0	1	0	1	0	3	49	6%
	Power Failure	1	0	0	0	0	1			
	Airflow Malfunction	0	0	1	0	0	1			
Lost		2	0	5	0	1	6			
Starts		44	74	44	162	162	162			
%		5%	0%	11%	0%	1%	4%			

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

BRT (D 6557)

Average Δ/s By Laboratory		
Lab	n	AGVYI
A	71	0.583
B	32	0.173
D	6	0.910
G	46	-0.139
Industry	155	0.296

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

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

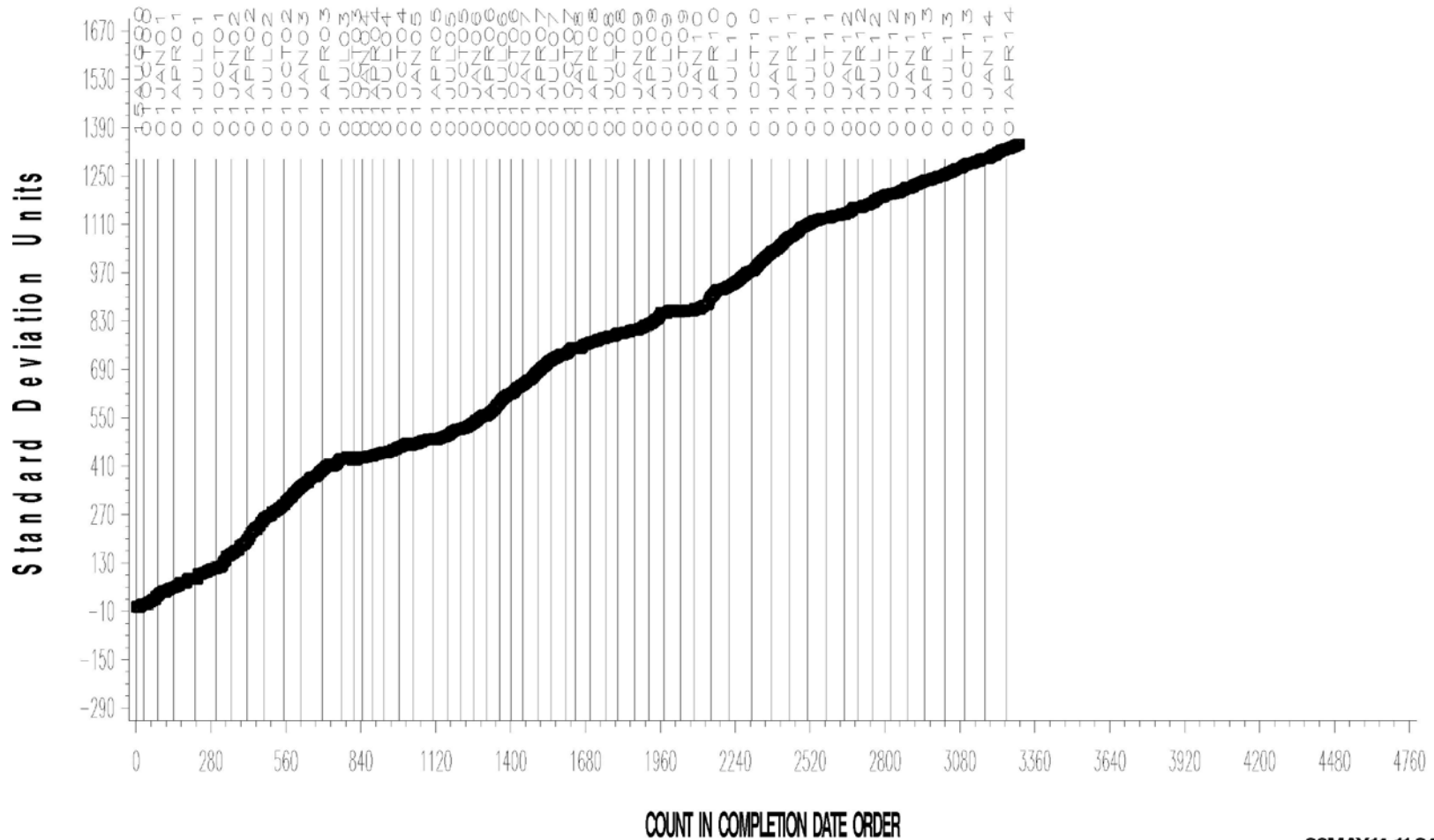
BRT (D 6557)

BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis



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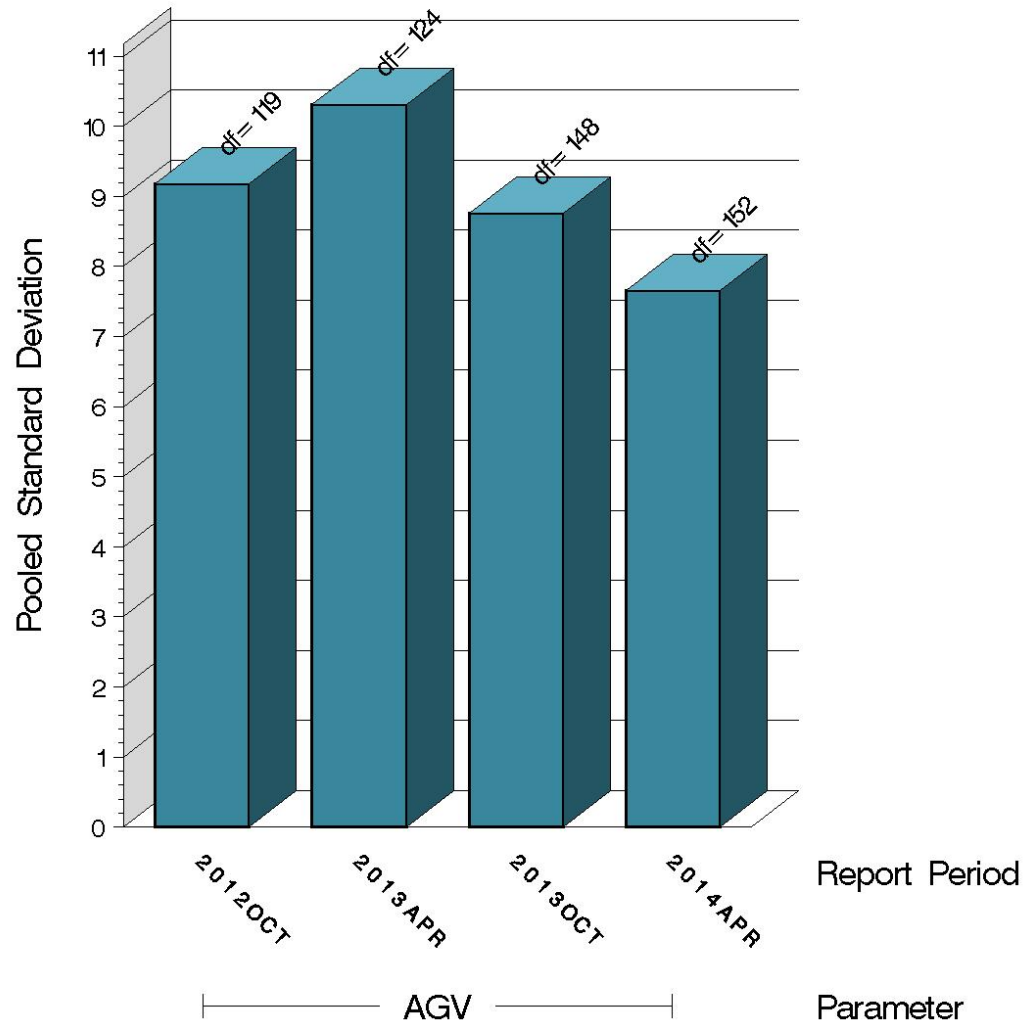
Test Monitoring Center
<http://astmtmc.cmu.edu>



BRT (D 6557)

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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BRT (D 6557)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, AGV severity, as measured by CUSUM plotting, continued the mild trend that has existed since the inception of the test.

Precision

Pooled s for this period is 7.65.

Precision, as measured by pooled standard deviation, is better than previous periods but still comparable to historical performance.

BRT (D 6557)

INFORMATION LETTERS

No Information Letters were issued this period.

BRT (D 6557)

STATUS OF REFERENCE OIL SUPPLY

Oil	Samples @ Labs	@ TMC	
		Samples (30 mL)	Gallons
1006	40	4187	33.5
81	60	937	7.5
82	40	462	3.7
82-1	8	1225	9.8
Total	148	6811	54.5