



Test Monitoring Center

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

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

MEMORANDUM: 13-060
DATE: November 18, 2013
TO: Leonard Orzech,
Chairman, Ball Rust Test Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: BRT Testing from April 1, 2013 through September 30, 2013

A total of 156 BRT 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/mem13-060.mtk.doc

cc: F. M. Farber

J. A. Clark

BRT Surveillance Panel

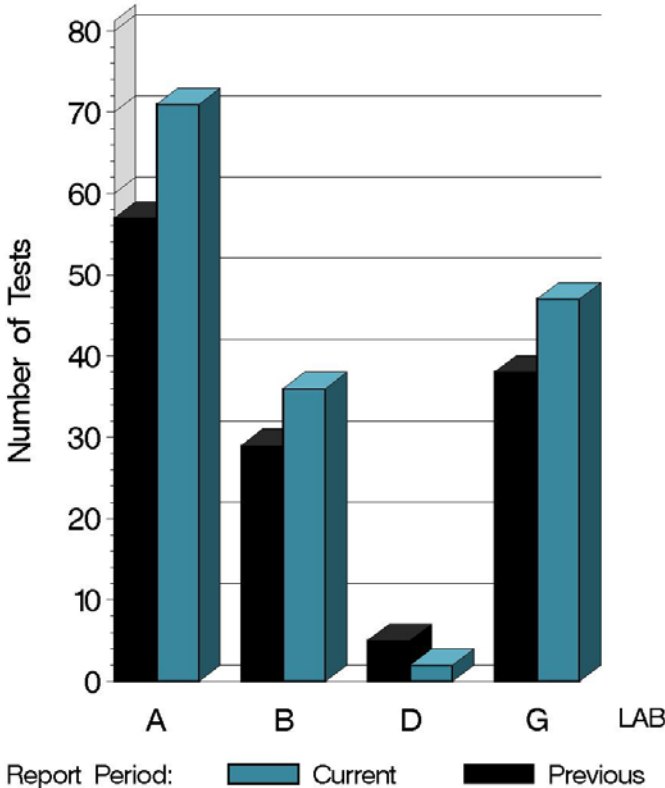
<ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-10-2013.pdf>

Distribution: email

BRT (D 6557)

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



8/15/2011

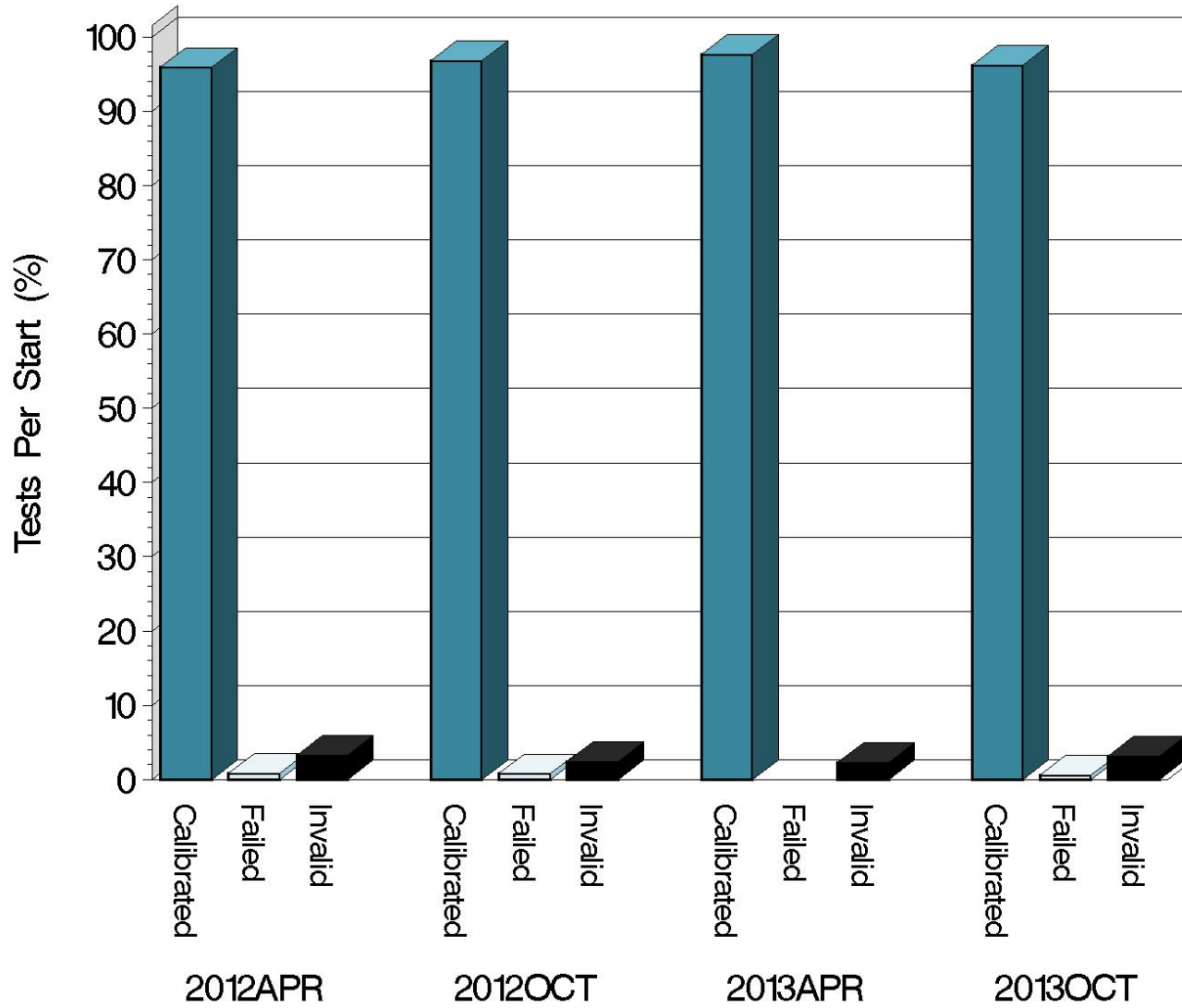
BRT (D 6557)

Test Distribution by Oil and Validity

		1006	81	82	Totals	
					This Period	Last Period
Accepted for calibration	AC	37	76	37	150	126
Rejected	OC	0	1	0	1	0
Invalidated	LC	0	0	0	0	1
Aborted	XC	0	3	2	5	2
Hardware Approval run	NI	0	0	0	0	0
Unacceptable Approval run	MI	0	0	0	0	0
Total		37	80	39	156	129

BRT (D 6557)

CALIBRATION ATTEMPT SUMMARY



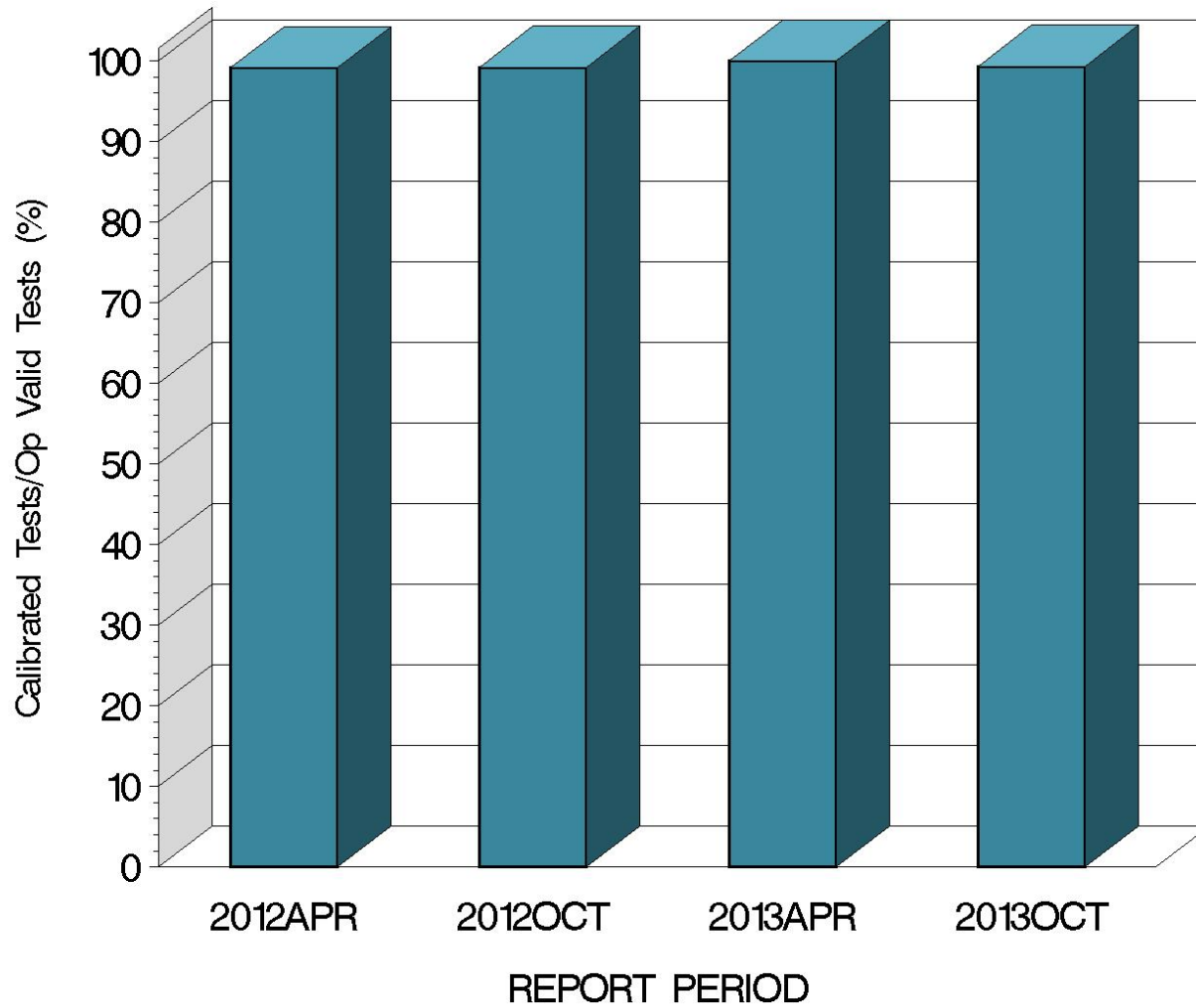
Resolution

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	Power Failure	0	1	0	0	0	1	2	36	6%
	Shaker Table Failure	0	0	1	0	0	1			
G	Power Failure	0	1	0	0	0	1	3	47	6%
	Computer Failure	0	1	0	0	0	1			
	Airflow Malfunction	0	0	1	0	0	1			
Lost		0	3	2	0	0	5			
Starts		37	80	39	156	156	156			
%		0%	4%	5%	0%	0%	3%			

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	0.532
B	34	0.510
D	2	1.286
G	44	-0.274
Industry	151	0.302

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

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

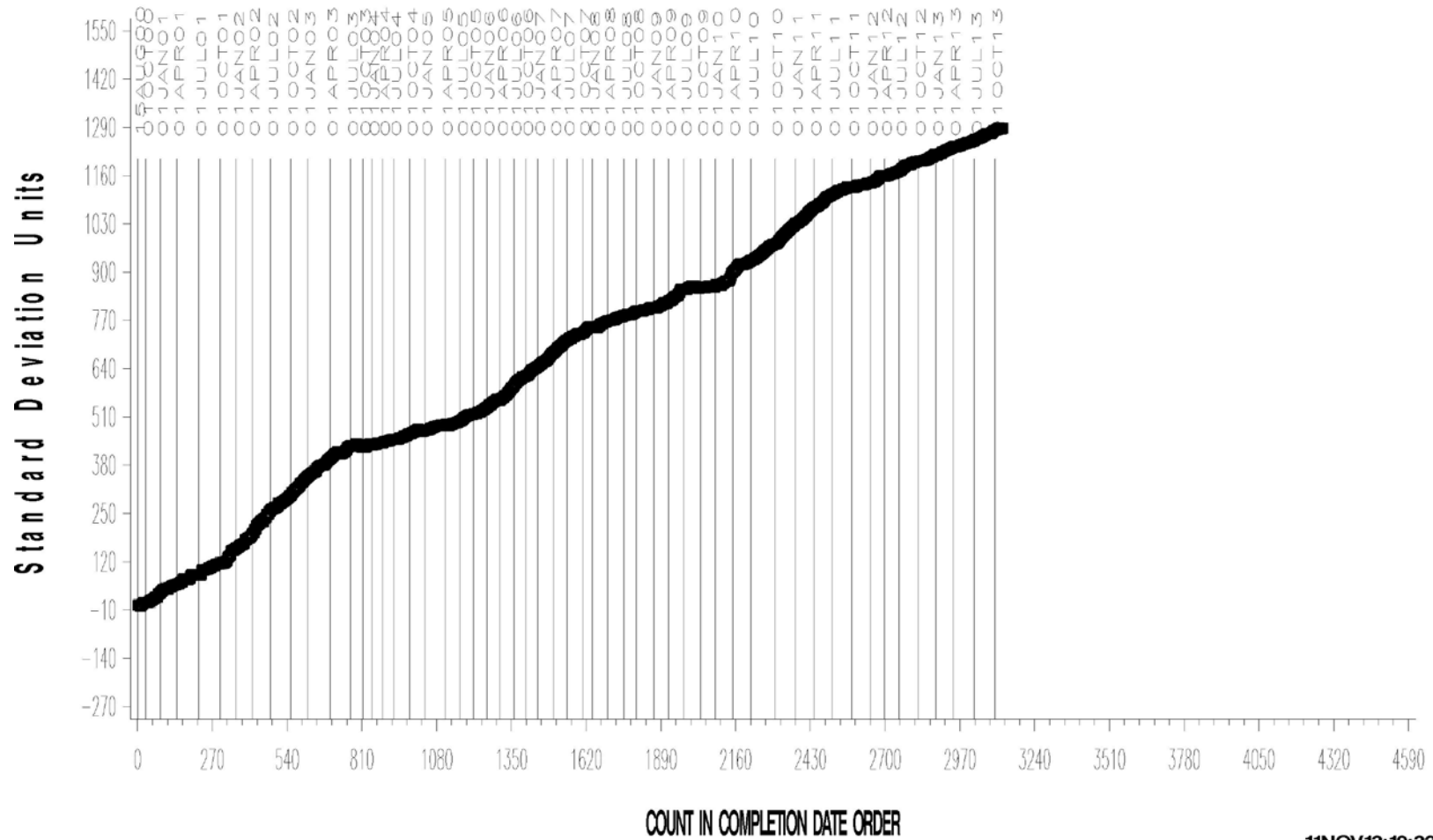
BRT (D 6557)

BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis



11NOV13:10:32

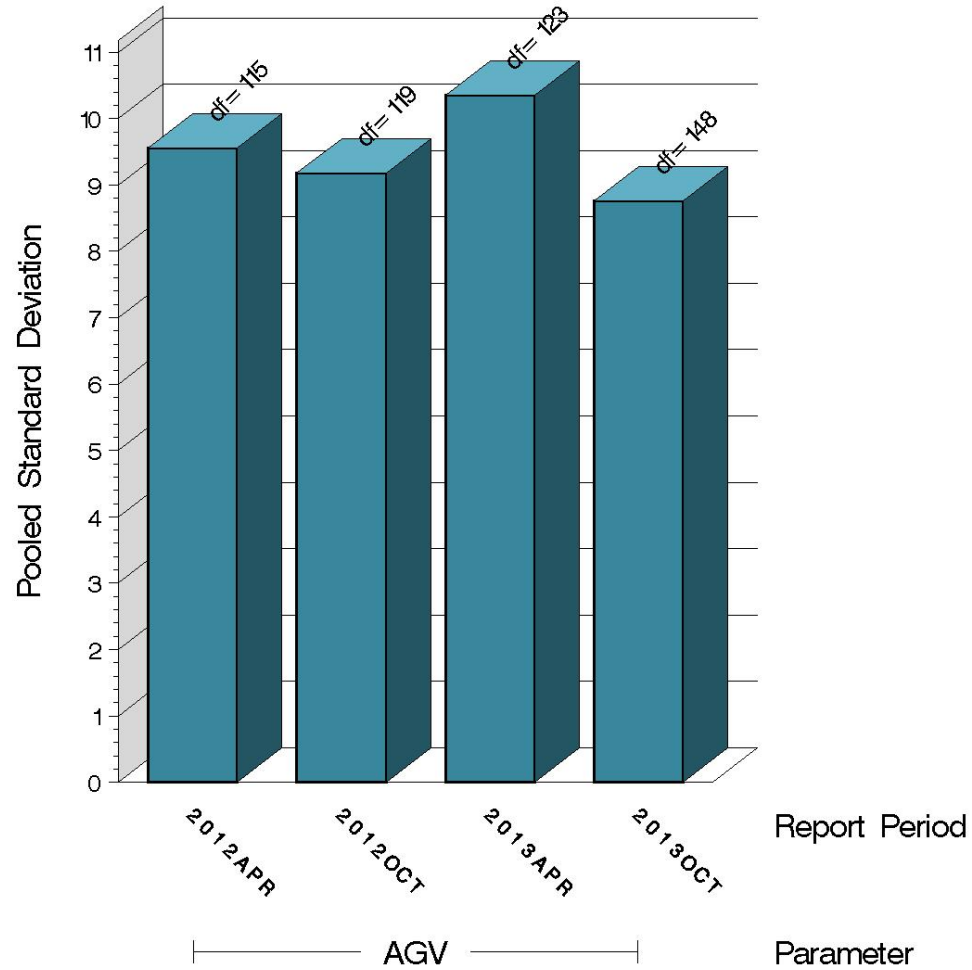
Test Monitoring Center
<http://astmtmc.cmu.edu>



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 10.35.

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	25	4250	34.0
81	28	1062	8.5
82	25	537	4.3
82-1	8	1225	9.8
Total	86	7074	56.6