



Test Monitoring Center

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

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

MEMORANDUM: 17-005

DATE: April 26, 2017

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

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

SUBJECT: BRT Testing from October 1, 2016 through March 31, 2017

A total of 161 BRT tests were reported to the Test Monitoring Center during the report period from October 1, 2016 through March 31, 2017.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0417.doc/mem17-005.mtk.doc

cc: F. M. Farber

J. A. Clark

BRT Surveillance Panel

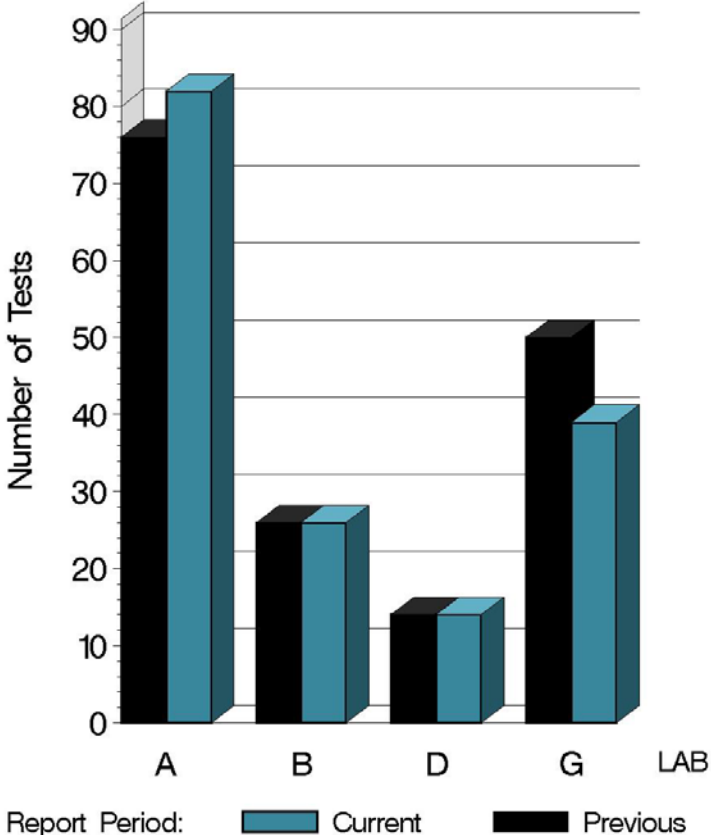
<ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-04-2017.pdf>

Distribution: email

BRT (D 6557)

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



15:12:28 25APR2017

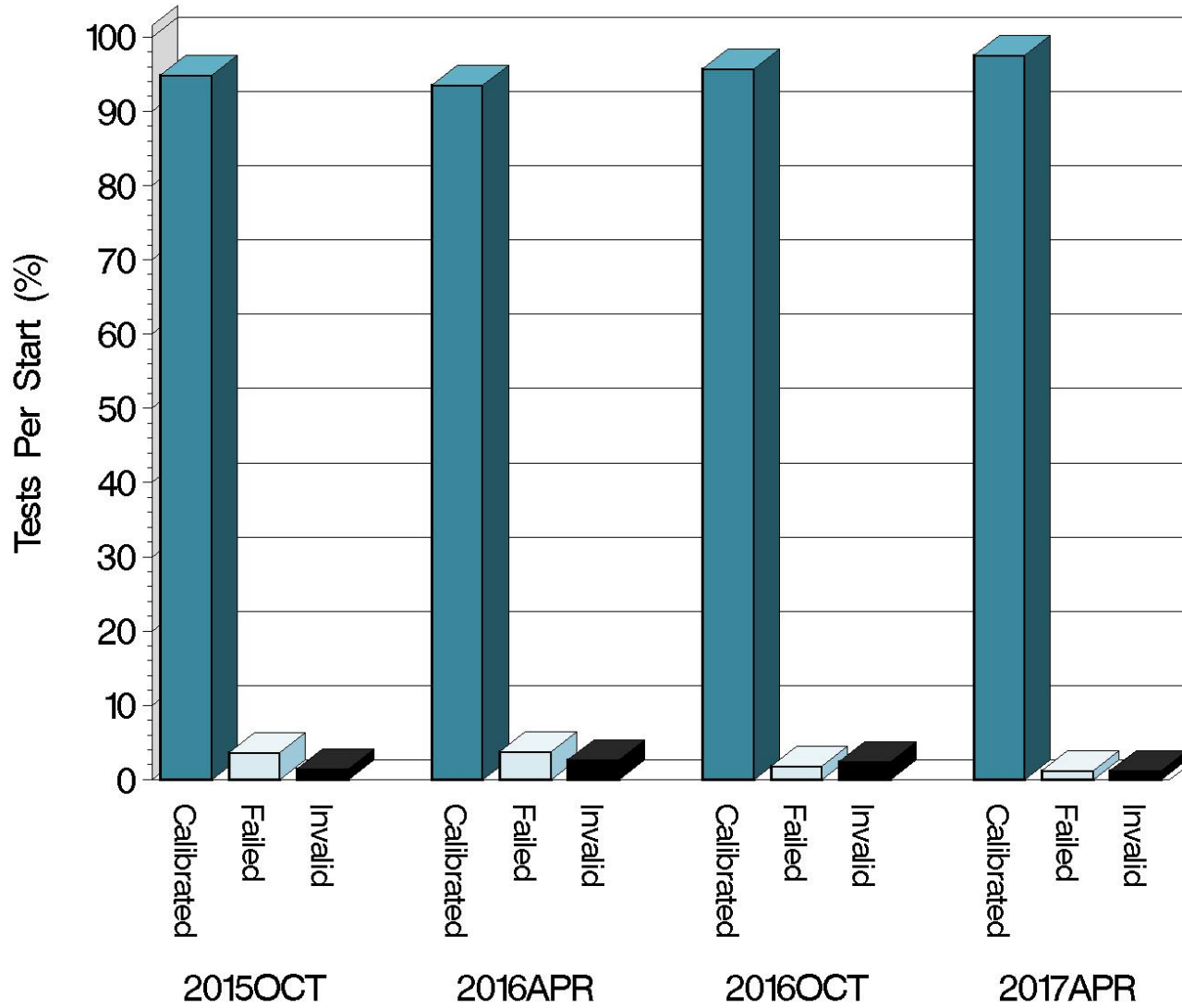
BRT (D 6557)

Test Distribution by Oil and Validity

						Totals	
		1006	81	82	82-1	This Period	Last Period
Accepted for calibration	AC	38	77	8	34	157	155
Rejected	OC	2	0	0	0	2	3
Invalidated by Lab	LC	1	0	0	0	1	3
Invalidated by TMC	RC	0	0	0	0	0	0
Aborted	XC	1	0	0	0	1	0
Hardware Approval run	NI	0	0	0	0	0	4
Invalid Hardware Approval run	LI	0	0	0	0	0	0
Unacceptable Approval run	MI	0	0	0	0	0	0
Total		42	77	8	34	161	165

BRT (D 6557)

CALIBRATION ATTEMPT SUMMARY



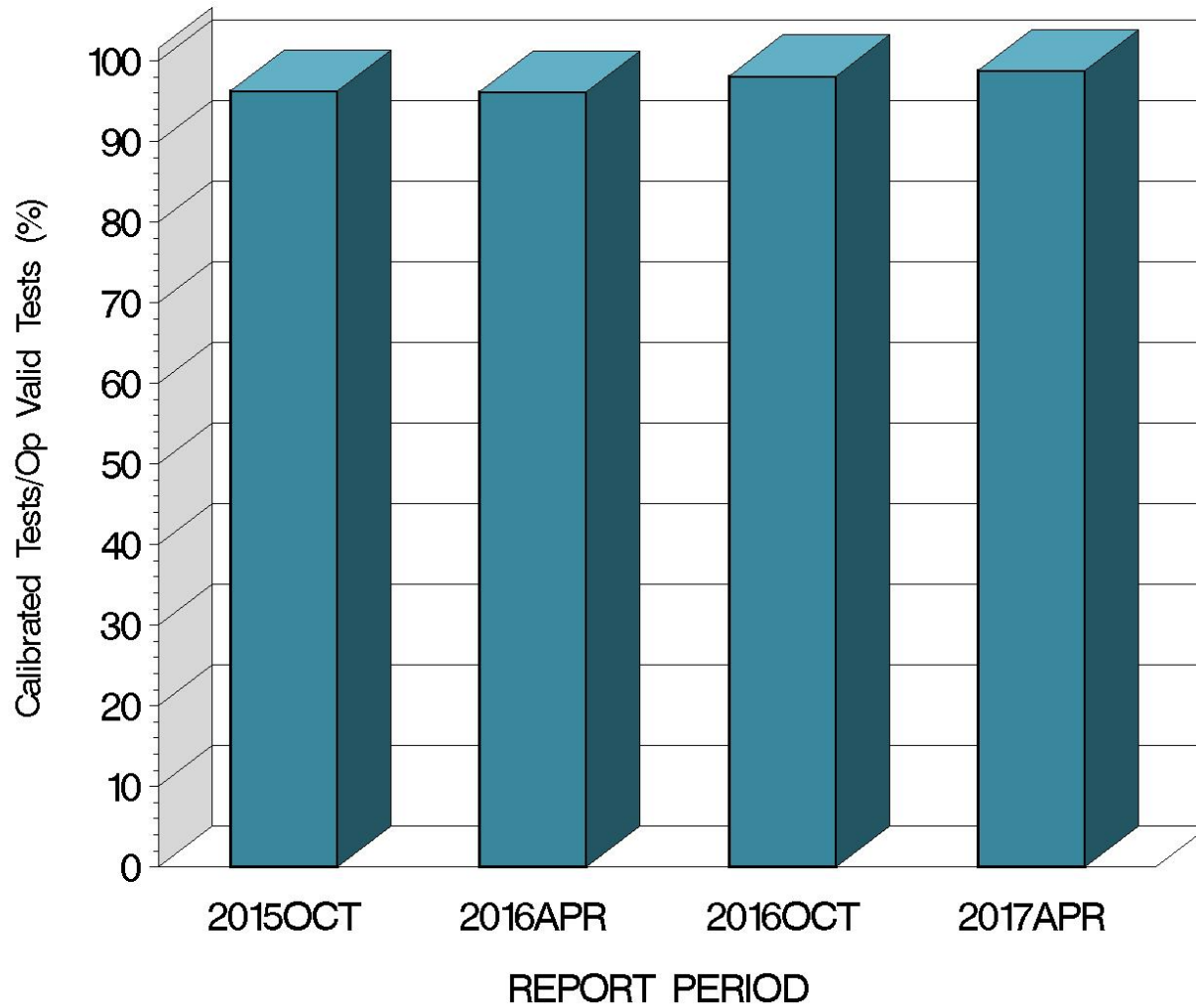
Resolution

Report Period

15:12:28 25APR2017

BRT (D 6557)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



15:12:28 25APR2017

BRT (D 6557)

CAUSES FOR LOST TESTS

Lab	Cause	Oil				Validity			Loss Rate		
		1006	81	82	82-1	LC	RC	XC	Lost	Starts	%
G	Power Failure	1	0	0	0	0	0	1	1	39	2.6
	Shaker Table Failure	1	0	0	0	1	0	0	1	39	2.6
	Lost	2	0	0	0	1	0	1			
	Starts	42	77	8	34	161	161	161			
	%	4.8	0	0	0	0.6	0	0.6			

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

BRT (D 6557)

Average Δ/s By Laboratory		
Lab	n	AGVYI
A	82	0.604
B	26	0.139
D	14	-0.222
G	37	0.365
Industry	159	0.399

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

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

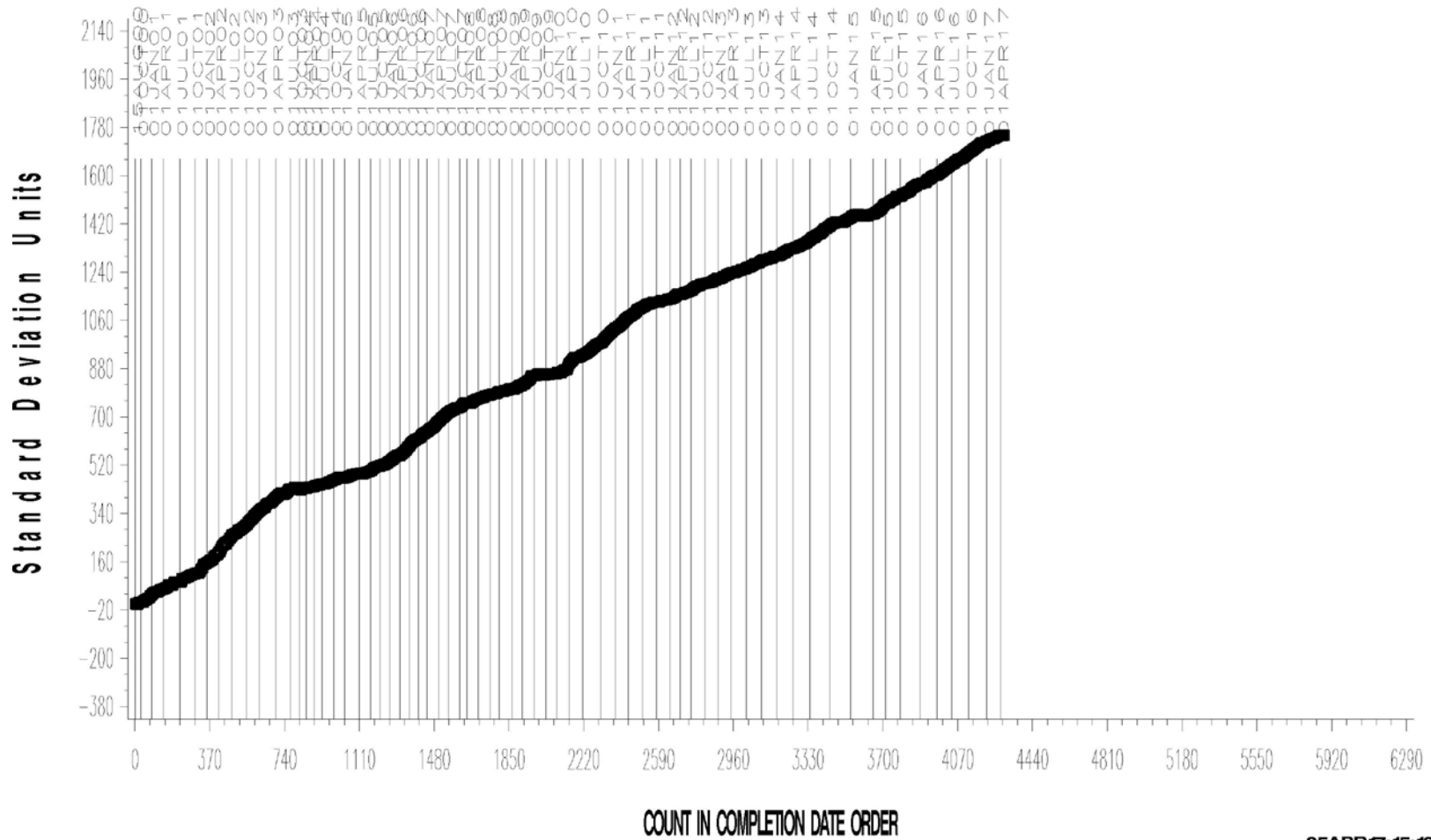
BRT (D 6557)

BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis



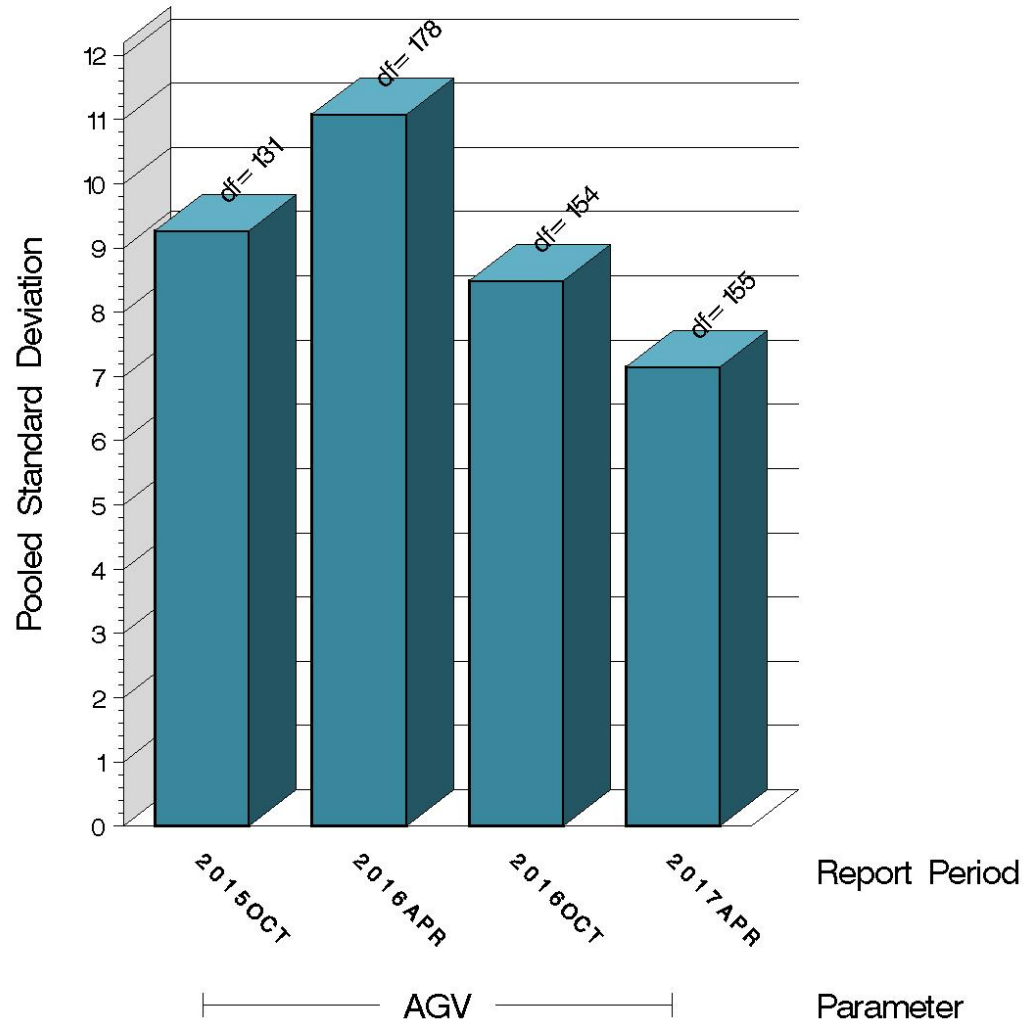
25APR17: 15:19



BRT (D 6557)

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



15.12.28 25APR2017

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 7.15.

Precision, as measured by pooled standard deviation, is better than the previous period, but still in line with overall 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	31	3937	31.5
81	45	450	3.6
82	10	0	0.0
82-1	62	1112	8.9
Total	148	5499	44.0