

Test Monitoring Center

@ Carnegie Mellon University 6555 Penn Avenue, Pittsburgh, PA 15206, USA http://astmtmc.cmu.edu 412-365-1000

MEMORANDUM: 15-015

DATE: May 7, 2015

TO: Leonard Orzech,

Chairman, Ball Rust Test Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimisky

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

A total of 220 BRT 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/mem15-015.mtk.doc

cc: F. M. Farber J. A. Clark

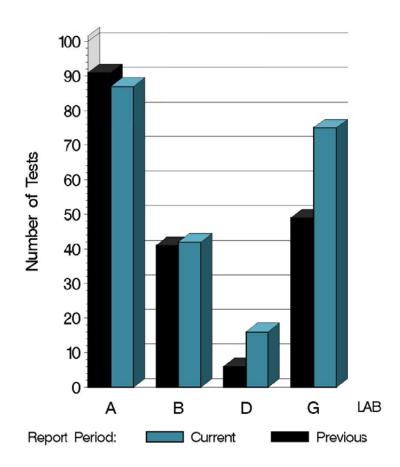
BRT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-04-2015.pdf

Distribution: email

	Reporting Data
Number of Labs	4

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD







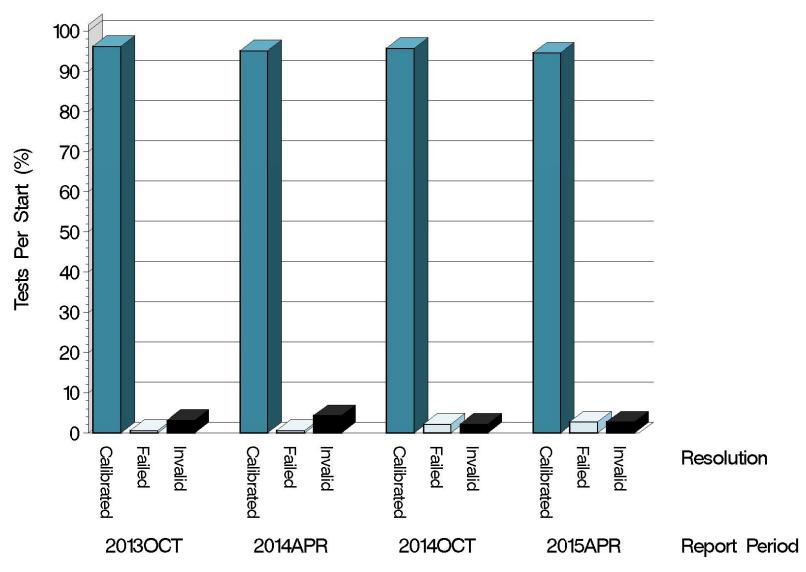
Test Distribution by Oil and Validity

					Totals	
		1006	81	82	This Period	Last Period
Accepted for calibration	AC	53	97	58	208	179
Rejected	OC	0	4	2	6	4
Invalidated by Lab	LC	0	0	0	0	3
Invalidated by TMC	RC	1	0	0	1	0
Aborted	XC	4	1	0	5	1
Hardware Approval run	NI	0	0	0	0	0
Unacceptable Approval run	MI	0	0	0	0	0
Total		58	102	60	220	187





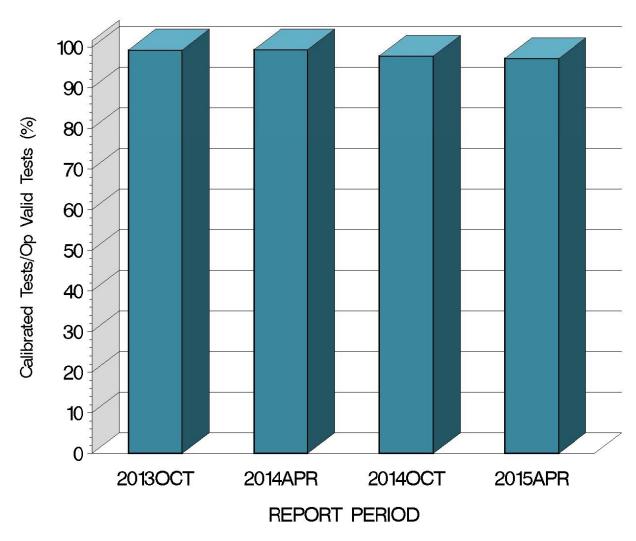
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA







CAUSES FOR LOST TESTS

			Oil		Validity		Loss Rate				
Lab	Cause		1006	81	82	LC	RC	XC	Lost	Starts	%
Shaker Table Failure		able Failure	1	0	0	0	0	1	2	0.7	20/
Α	Operator	Error	1	0	0	0	0	1		87	2%
D	Bath Failure		0	1	0	0	0	1	1	16	6%
	Image Calibration Out-of-Spec		1	0	0	0	1	0			
G Power Failure		1	0	0	0	0	1	3	75	4%	
	Acid Pump Problem		1	0	0	0	0	1			
		Lost	5	1	0	0	1	5			
		Starts	58	102	60	220	220	220			
		%	9%	1%	4%	2%	.5%	2%			

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





Average Δ/s By Laboratory					
Lab	n	AGVYI			
Α	85	0.517			
В	42	0.151			
D	15	0.737			
G	72	-0.220			
Industry	214	0.212			

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

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



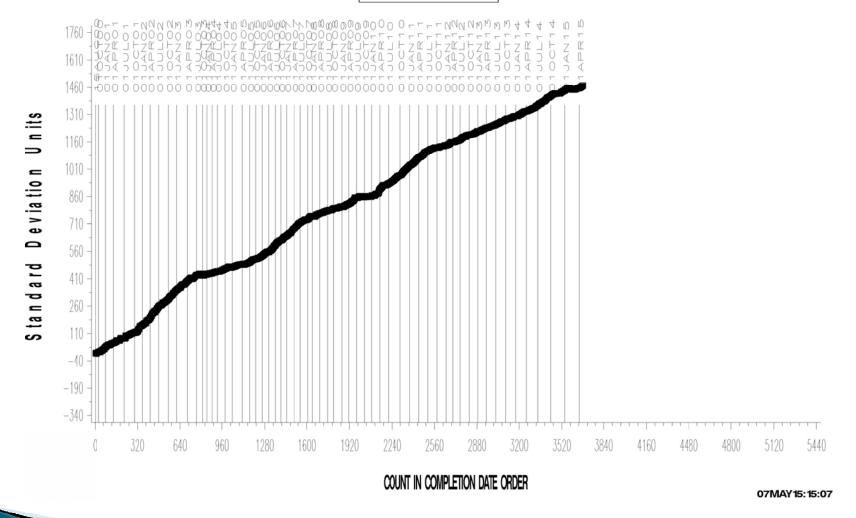


BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis

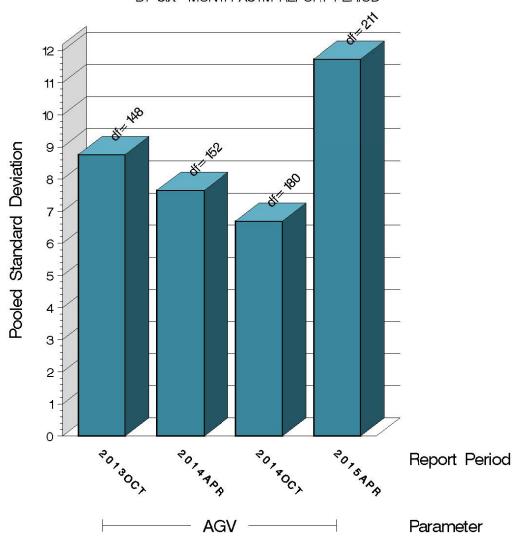


Test Monitoring Center



TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD







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 11.73.

Precision, as measured by pooled standard deviation, is significantly worse than previous periods.





INFORMATION LETTERS

No Information Letters were issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Samples @ Labs	Samples (30 mL)	Gallons	
1006	30	4100	32.8	
81	45	775	6.2	
82	24	375	3.0	
82-1	8	1225	9.8	
Total	107	6475	51.8	

