

Test Monitoring Center

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

MEMORANDUM:	16-037
DATE:	November 3, 2016
TO:	Leonard Orzech, Chairman, Ball Rust Test Surveillance Panel
FROM:	Michael T. Kasimirsky Michael J. Resimisky
SUBJECT:	BRT Testing from April 1, 2016 through September 30, 2016

A total of 165 BRT tests were reported to the Test Monitoring Center during the report period from April 1, 2016 through September 30, 2016.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1016.doc/mem16-037.mtk.doc

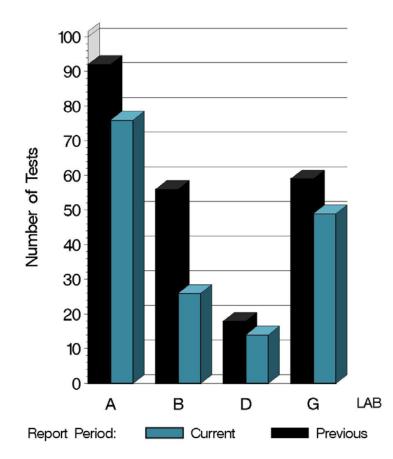
cc: F. M. Farber J. A. Clark BRT Surveillance Panel

ftp://ftp.astmtmc.cmu.edu/docs/bench/brt/semiannualreports/brt-10-2016.pdf

Distribution: email



NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



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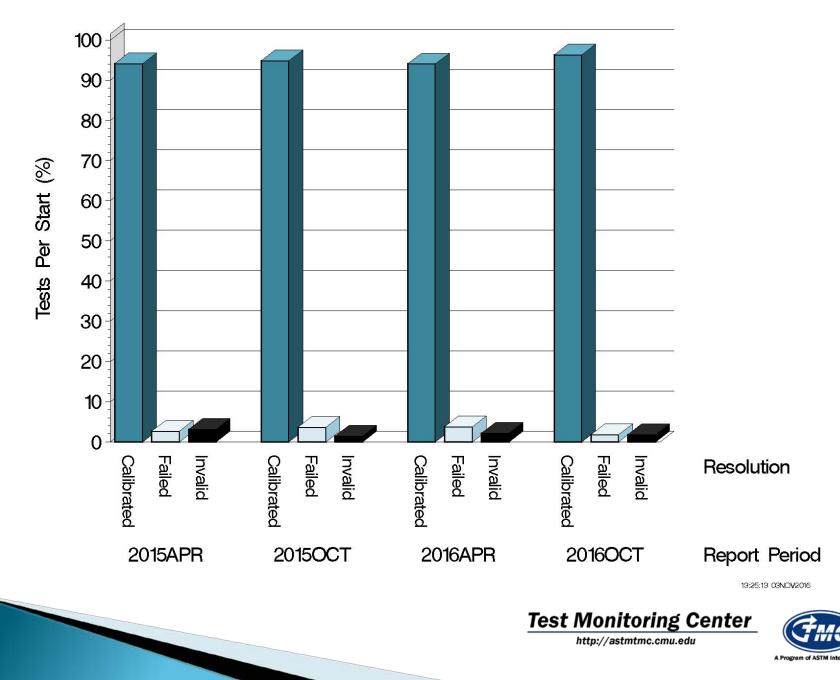
http://astmtmc.cmu.edu

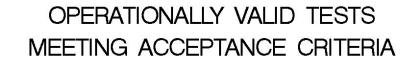
Test Distribution by Oil and Validity

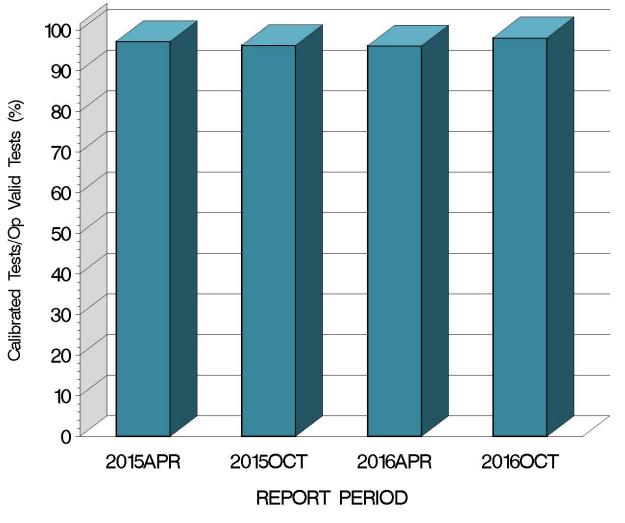
						Totals	
		1006	81	82	82-1	This Period	Last Period
Accepted for calibration	AC	29	92	28	6	155	174
Rejected	OC	2	1	0	0	3	7
Invalidated by Lab	LC	0	1	2	0	3	1
Invalidated by TMC	RC	0	0	0	0	0	1
Aborted	XC	0	0	0	0	0	2
Hardware Approval run	NI	0	0	0	4	4	35
Invalid Hardware Approval run	LI	0	0	0	0	0	4
Unacceptable Approval run	MI	0	0	0	0	0	1
Total		31	94	30	10	165	225



CALIBRATION ATTEMPT SUMMARY







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CAUSES FOR LOST TESTS

			Oil		Validity			Loss Rate			
Lab	Cause		1006	81	82	LC	RC	XC	Lost	Starts	%
Α	Airflow Co	Airflow Control Problem		0	1	1	0	0	1	76	1.3
G	Shaker Ta	Shaker Table Failure		1	1	2	0	0	2	49	4.1
		Lost	0	1	2	3	0	0			
		Starts	31	94	30	158	158	158			
		%	0.0	0.1	6.7	1.9	0	0			

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





Average Δ/s By Laboratory					
Lab	n	AGVYI			
A	75	0.838			
В	25	0.426			
D	14	-0.019			
G	44	0.235			
Industry	158	0.529			

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

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



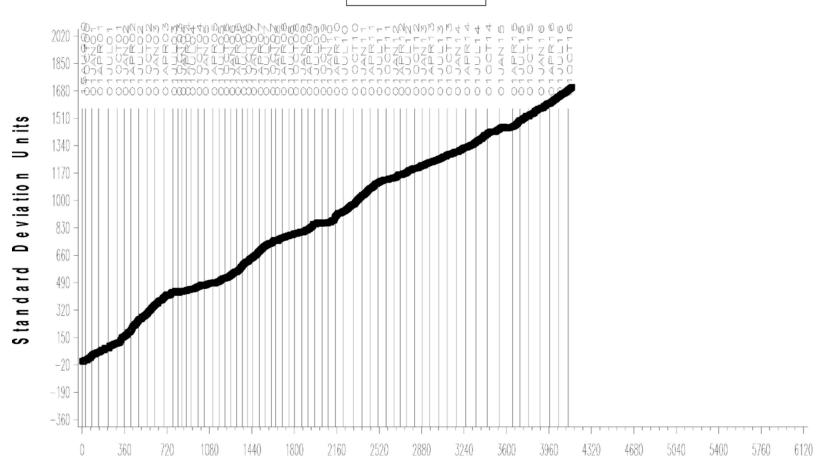


BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis



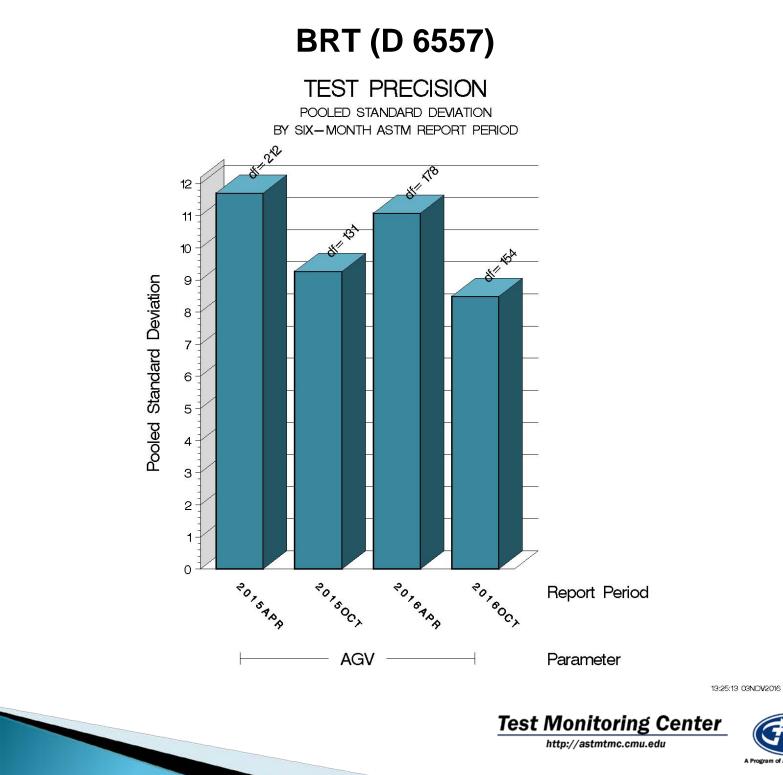
COUNT IN COMPLETION DATE ORDER

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



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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 8.50.

Precision, as measured by pooled standard deviation, is better than the previous period, but still in line with overall historical performance.



INFORMATION LETTERS

No Information Letters were issued this period.





STATUS OF REFERENCE OIL SUPPLY

		@ TMC		
Oil	Samples @ Labs	Samples (30 mL)	Gallons	
1006	39	3962	31.7	
81	59	500	4.0	
82	13	0	0.0	
82-1	74	1137	9.1	
Total	185	5599	44.8	



