

### 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

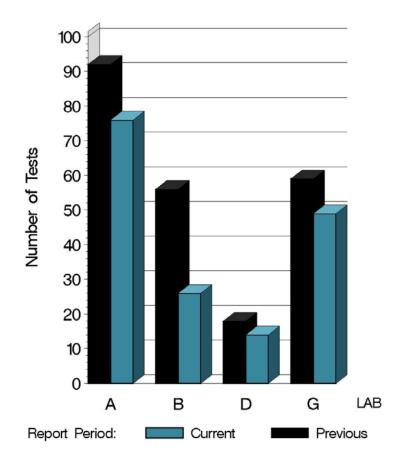
cc: F. M. Farber J. A. Clark BRT Surveillance Panel

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

Distribution: email



NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD



13:25:13 03NOV2016



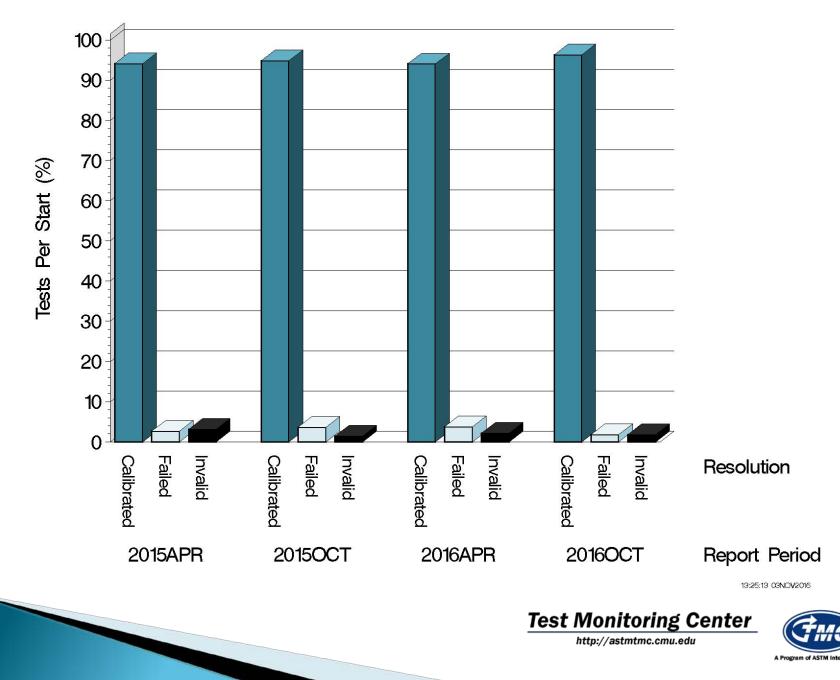
http://astmtmc.cmu.edu

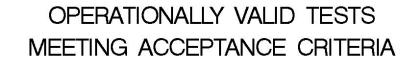
## **Test Distribution by Oil and Validity**

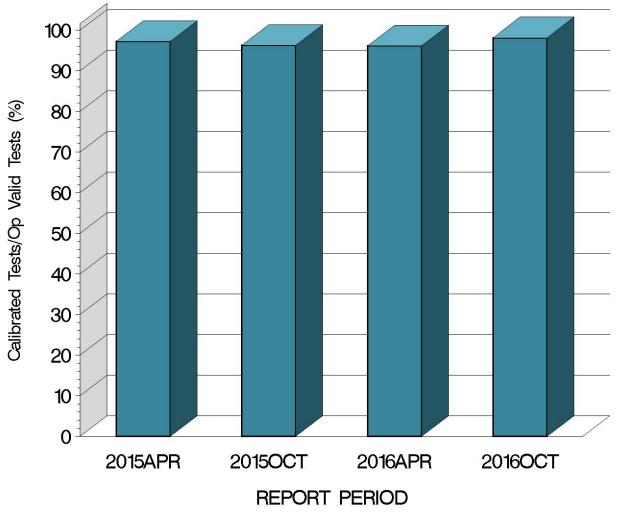
						Totals	
		1006	81	82	82-1	This Period	Last Period
Accepted for calibration	AC	29	92	28	6	155	174
Rejected	OC	2	1	0	0	3	7
Invalidated by Lab	LC	0	1	2	0	3	1
Invalidated by TMC	RC	0	0	0	0	0	1
Aborted	XC	0	0	0	0	0	2
Hardware Approval run	NI	0	0	0	4	4	35
Invalid Hardware Approval run	LI	0	0	0	0	0	4
Unacceptable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



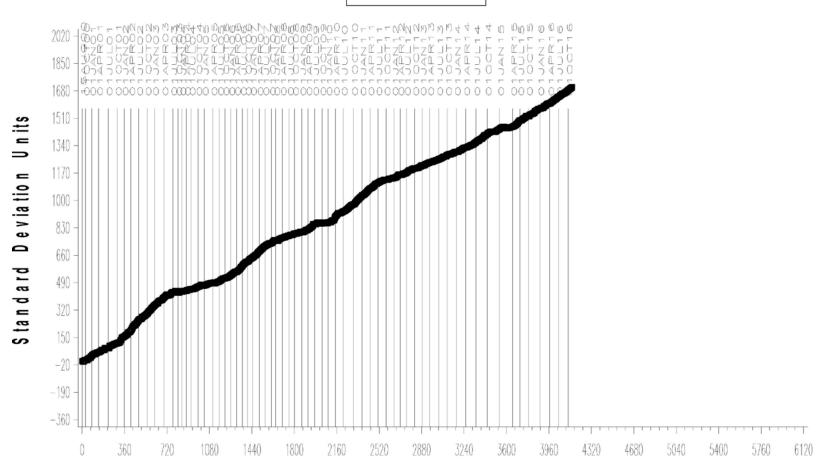


#### BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



#### **REFERENCE AVERAGE GRAY VALUE**

CUSUM Severity Analysis



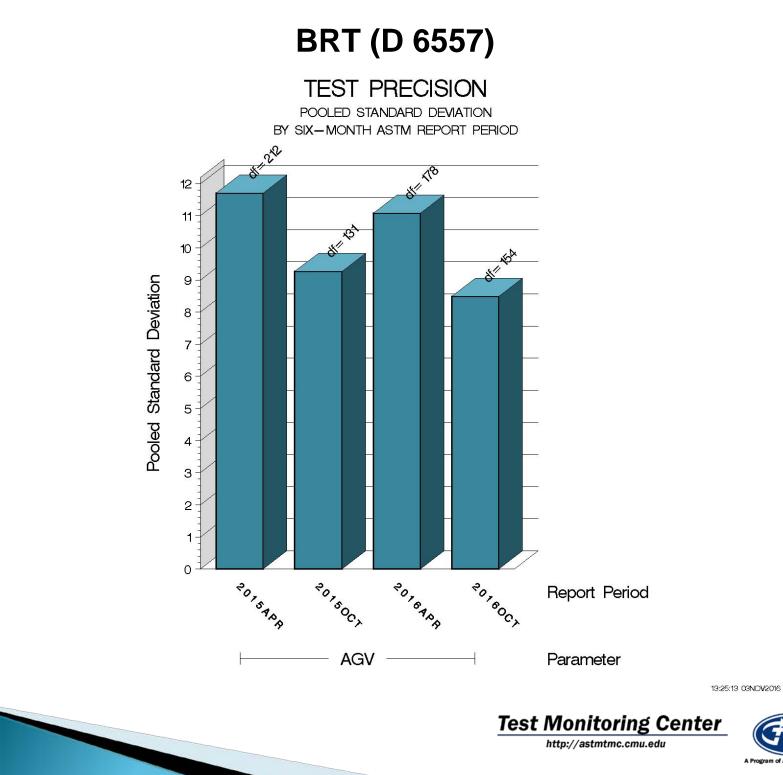
COUNT IN COMPLETION DATE ORDER

03NOV16:13:20



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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	



