

Test Monitoring Center

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

MEMORANDUM: 19-011

DATE: April 15, 2019

TO: Jessica Villarreal,

Chairwoman, Ball Rust Test Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimisky

SUBJECT: BRT Testing from October 1, 2018 through March 31, 2019

A total of 155 BRT tests were reported to the Test Monitoring Center during the report period from October 1, 2018 through March 31, 2019.

Please find attached a summary of testing activity this period.

MTK/mtk/ast0419.doc/mem19-011.mtk.doc

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

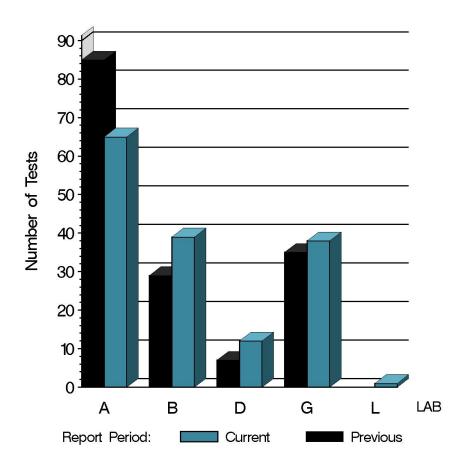
BRT Surveillance Panel

http://www.astmtmc.cmu.edu/ftp/docs/bench/brt/semiannualreports/brt-04-2019.pdf

Distribution: email

	Reporting Data
Number of Labs	5

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD





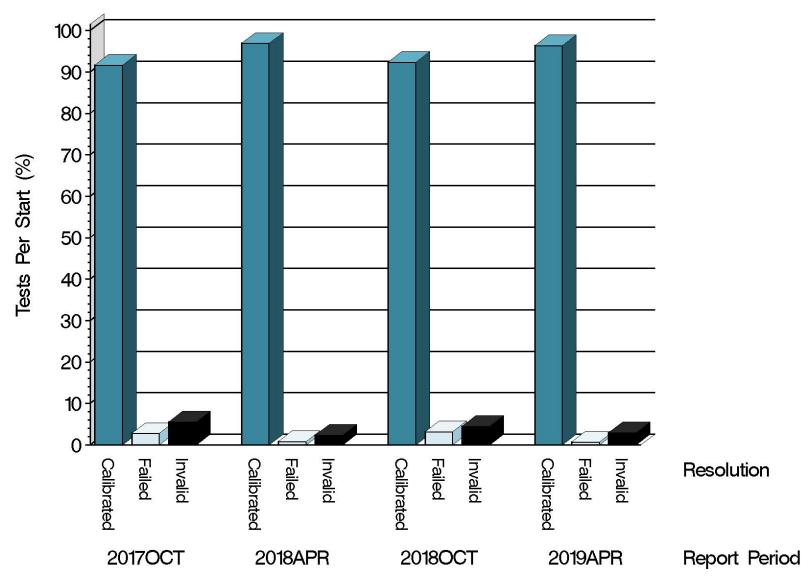


Test Distribution by Oil and Validity

							Tota	als
		1006	81	82-1	86	87	This Period	Last Period
Accepted for calibration	AC	41	7	30	27	27	132	144
Rejected	OC	0	0	0	0	1	1	5
Invalidated by Lab	LC	1	1	0	1	0	3	2
Aborted	XC	0	0	1	0	0	1	3
Invalidated by TMC	RC	0	0	0	0	0	0	2
Acceptable Shakedown	NN	4	0	1	3	4	12	0
Invalid Shakedown	LN	0	0	0	0	1	1	0
Failed Shakedown	MN	2	0	0	2	1	5	0
Total		48	8	32	33	34	155	156



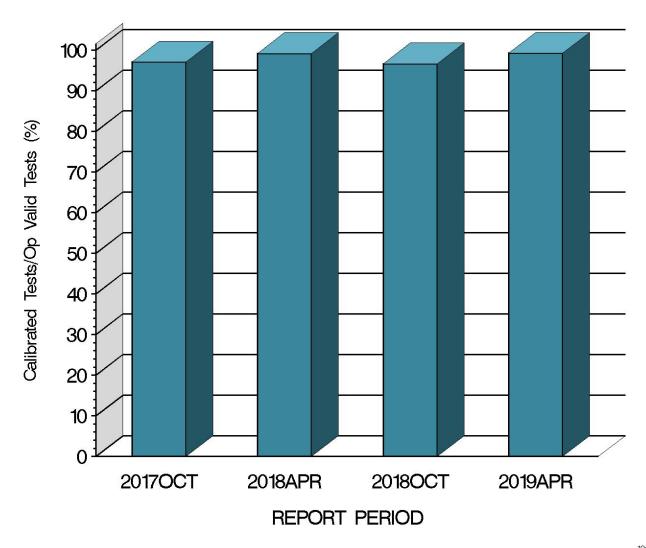
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA







CAUSES FOR LOST TESTS

			Oil			Validity			Loss Rate				
Lab	Cause		1006	81	82-1	86	87	LC	RC	XC	Lost	Starts	%
В	Airflow Pr	oblem	0	0	0	1	0	1	0	0	1	39	2.6
D	Image Sy	stem Failure	1	0	0	0	0	1	0	0	1	12	8.3
G	Acid Pum	p Failure	0	0	1	0	0	0	0	1	1	38	2.6
L	Acid Leak	(0	1	0	0	0	1	0	0	1	1	100
		Lost	1	1	1	1	0	3	0	1			
		Starts	48	8	32	33	34	137	137	137			
		%	2.1	12.5	3.1	3.0	0	2.2	0	0.7			

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





Average Δ/s By Laboratory					
Lab	n	AGVYI			
Α	65	0.262			
В	20	-0.676			
D	11	-0.013			
G	37	-0.072			
L	-	-			
Industry	133	0.006			

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

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



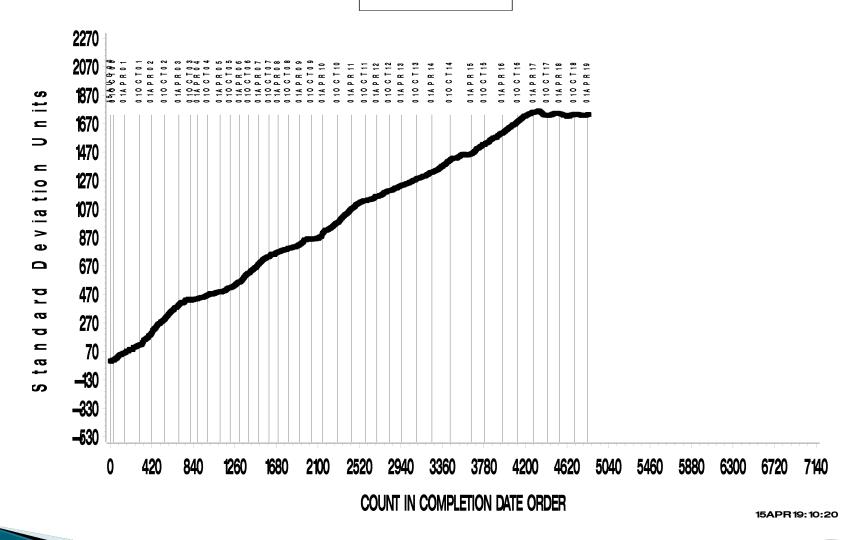


BALL RUST TEST INDUSTRY OPERATIONALLY VALID DATA



REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis

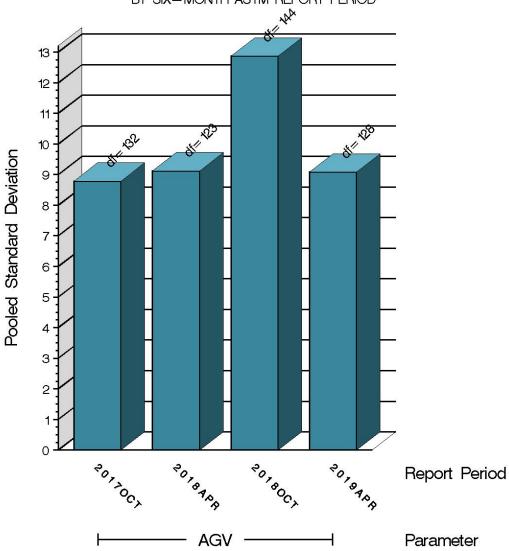






TEST PRECISION

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, is on target.

Precision

Pooled s for this period is 9.08.

Precision, as measured by pooled standard deviation, is better than the previous period.





INFORMATION LETTERS

No Information Letters issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC				
Oil	Samples @ Labs	Samples (30 mL)	Gallons			
1006	26	4156	33.2			
81	3	0	0.0			
82	2	0	0.0			
82-1	35	704	5.6			
86	22	6606	52.9			
87	21	12093	96.7			
Total	109	23559	188.5			

Reference Oils 86 and 87 approved for calibration use.



