

Test Monitoring Center

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

MEMORANDUM: 18-012

DATE: May 23, 2018

TO: Mike Lopez, Chairman, CBT Surveillance Panel

FROM: Michael T. Kasimirsky Michael J. Rasimirsky

SUBJECT: HTCBT Testing from October 1, 2017 through March 31, 2018

A total of 328 HTCBT tests were reported to the Test Monitoring Center during the report period from October 1, 2017 through March 31, 2018.

Please find attached a summary of testing activity this period.

MTK/mtk/astm1017.doc/mem18-012.mtk.doc

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

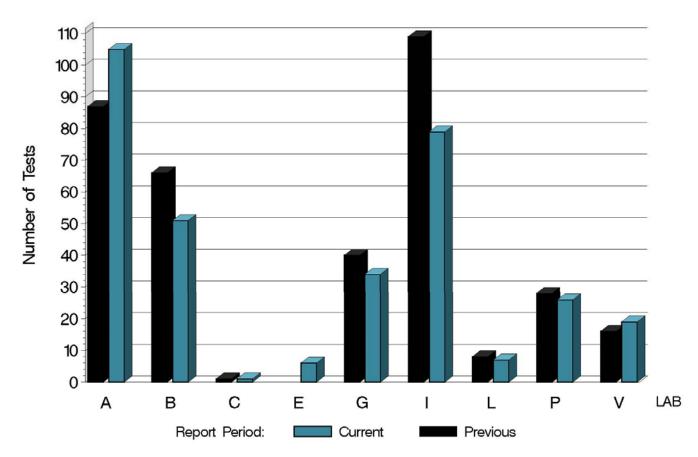
CBT Surveillance Panel

http://www.astmtmc.cmu.edu/ftp/docs/bench/htcbt/semiannualreports//htcbt-04-2018.pdf

Distribution: email

	Reporting Data	
Number of Labs	9	

NUMBER OF TESTS REPORTED BY LAB AND REPORT PERIOD





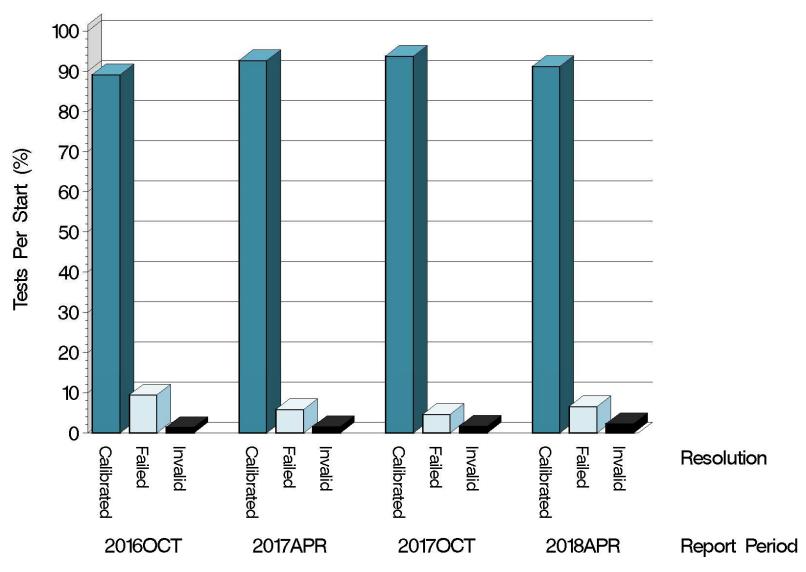


Test Distribution by Validity

		Number of Tests
Acceptable Calibration Test	AC	279
Unacceptable Calibration Test	OC	20
Invalid Calibration Test	LC	3
Aborted Calibration Test	XC	4
Acceptable Shakedown Run	AS	12
Unacceptable Shakedown Run	OS	8
Invalid Shakedown Run	LS	1
Invalid by TMC Shakedown Run	RS	1
Total		328



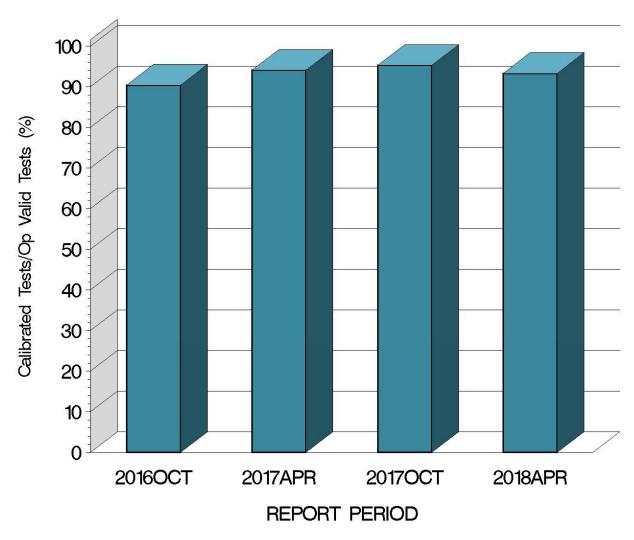
CALIBRATION ATTEMPT SUMMARY







OPERATIONALLY VALID TESTS MEETING ACCEPTANCE CRITERIA







CAUSES FOR LOST TESTS

Summary of Reasons for Failed Tests	No. of Tests
Lead, severe	10
Copper, mild	4
Copper, severe	3
Copper & Lead, severe	3



CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Invalid Tests	No. of Tests
Airflow control problems	1
Airflow control & heater failure	1
Temperature control	1



CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Aborted Tests	No. of Tests
Air supply failure	1
Bath failure	1
Operator error – bath control turned off	1
Low air flow	1



Average Δ/s By Laboratory			
Lab	n	CUC	PBC
Α	100	-0.095	0.183
В	51	0.208	0.117
С	1	-3.657	0.722
E	4	3.142	4.445
G	23	0.601	0.964
1	79	0.054	0.019
L	7	1.339	2.256
Р	26	-0.264	-0.019
V	8	0.270	1.859
Industry	299	0.110	0.323

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

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



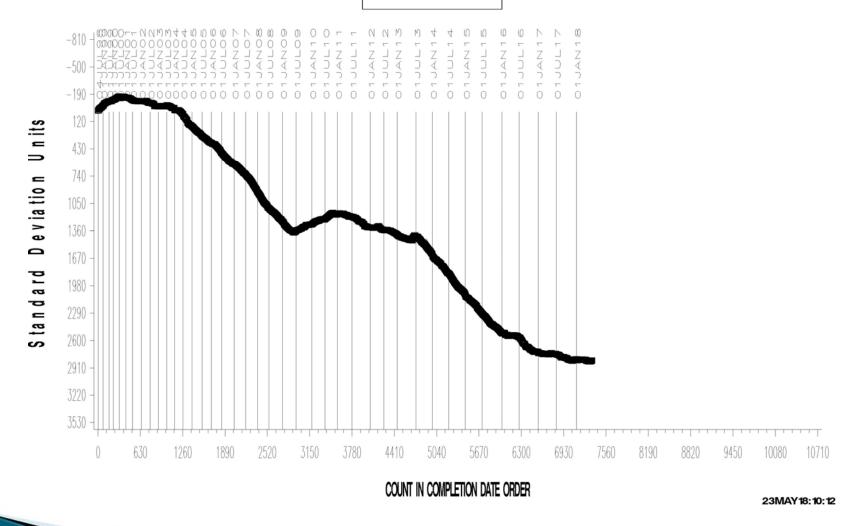


HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



COPPER CHANGE (ppm)

CUSUM Severity Analysis





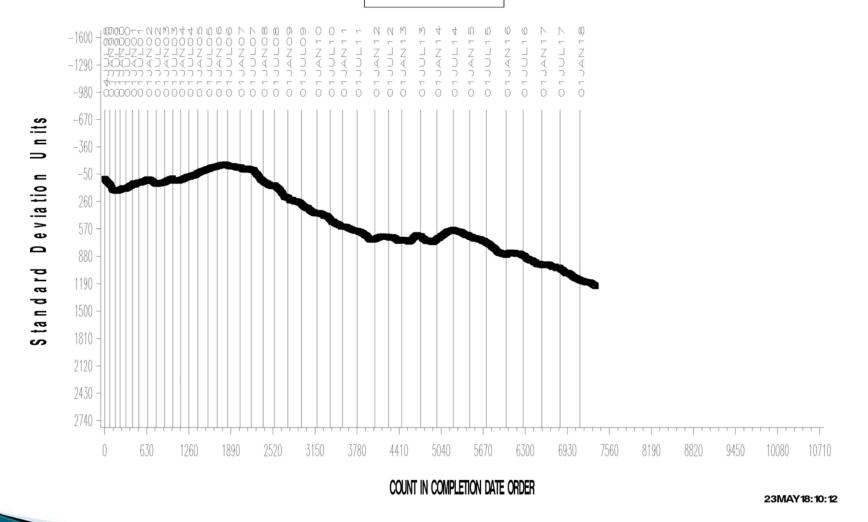


HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



LEAD CHANGE (ppm)

CUSUM Severity Analysis

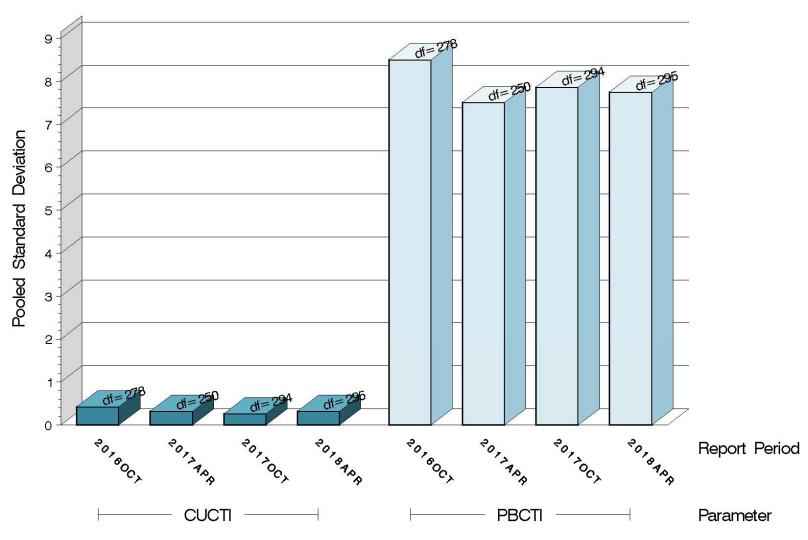






TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD







HTCBT (D 6594) SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, copper severity, as measured by cusum plotting, was very slightly severe, reducing a long-standing trend.

Over the course of this report period, lead severity, as measured by cusum plotting, was severe, continuing a long-standing trend.

Precision

Pooled s for this period is 0.32 for copper and 7.75 for lead.

Over the course of this report period, Precision, as measured by pooled standard deviation, is comparable to last period for both copper and lead concentration, but is still within historical levels.





INFORMATION LETTERS

No HTCBT Information Letters were issued this period.



STATUS OF REFERENCE OIL SUPPLY

		@ TMC	
Reference Oil	Samples @ Labs	Samples (4 oz)	Gallons
44-1	0	0	0.0
44-2	0	0	0.0
44-3	10	0	0.0
44-4	111	1052	32.9
1005-1	0	0	0.0
1005-3	6	0	0.0
1005-5	184	649	20.3
Total	311	1701	53.2

TMC inventories of Reference Oils 44-3 and 1005-3 have been depleted.



