

Test Monitoring Center

https://www.astmtmc.org

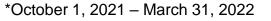
ASTM Reference Testing Semi-Annual Report ASTM D6594 - HTCBT

April 2022

HTCBT Test Activity*

Test Status	Validity Code	Number of Tests
Acceptable Calibration Test	AC	291
Failed Calibration Test	OC	14
Operationally Invalid, by lab	LC	1
Aborted Calibration Test	XC	4
Acceptable Shakedown Run	NN	3
Unacceptable Shakedown Run	MN	1
Total		314

- 9 labs reported data
- Unable to coordinate with SP chair to add HTCBT to the LTMS



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HTCBT Failed Tests

Failed Parameter	Number of Tests
Severe Lead Concentration	7
Mild Copper Concentration	3
Severe Copper & Lead Concentration	4
Total	14



HTCBT Failed Tests by Lab

Failed Parameter		LTMS Lab					#	
		E	G	I	V	BB	BC	Ħ
Severe Lead Concentration	1	0	4	2	0	0	0	7
Mild Copper Concentration	0	0	2	1	0	0	0	3
Severe Copper & Lead Concentration	0	0	1	0	0	1	2	4
Total	1	0	7	3	0	1	2	14



HTCBT Lost Tests*

Status	Cause			
Invalid	Temperature Controller Malfunction	2		
Invalid	Airflow Control Problems	0		
Invalid	Improper Coupon	0		
Invalid	Power Outage	3		
Invalid	Sample Contamination	0		
Total		5		

*Invalid and aborted calibration tests



HTCBT Lost Tests by Lab

Cause		LTMS Lab					
		В	G	I	Р	V	#
Temperature Controller Malfunction	0	0	0	1	0	1	2
Power Outage		0	2	0	1	0	3
Total	0	0	2	1	1	1	5



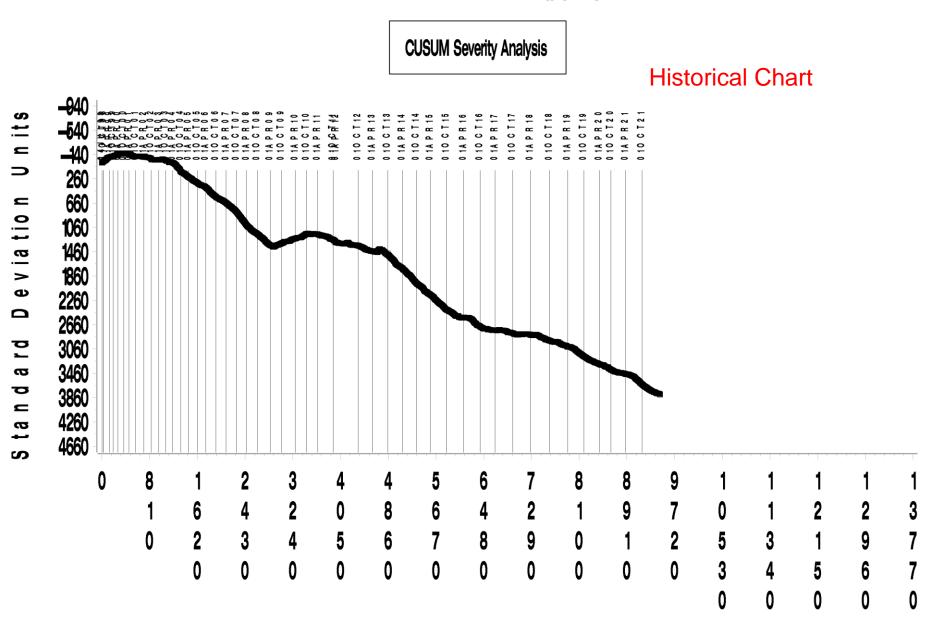
HTCBT Test Severity

- Copper concentration trending severe
- Lead concentration trending severe





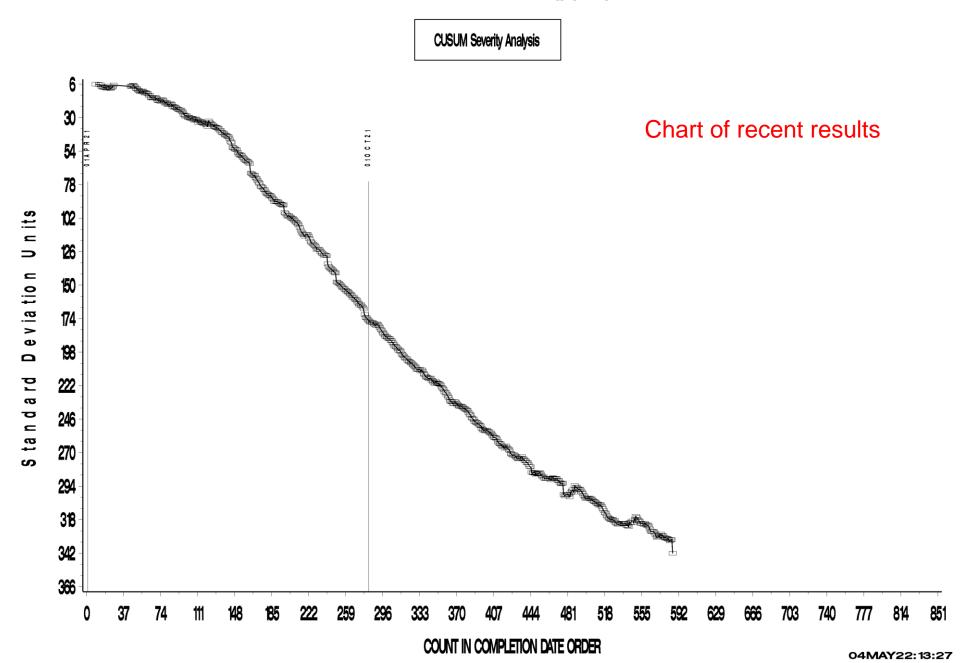
COPPER CHANGE (ppm)



COUNT IN COMPLETION DATE ORDER

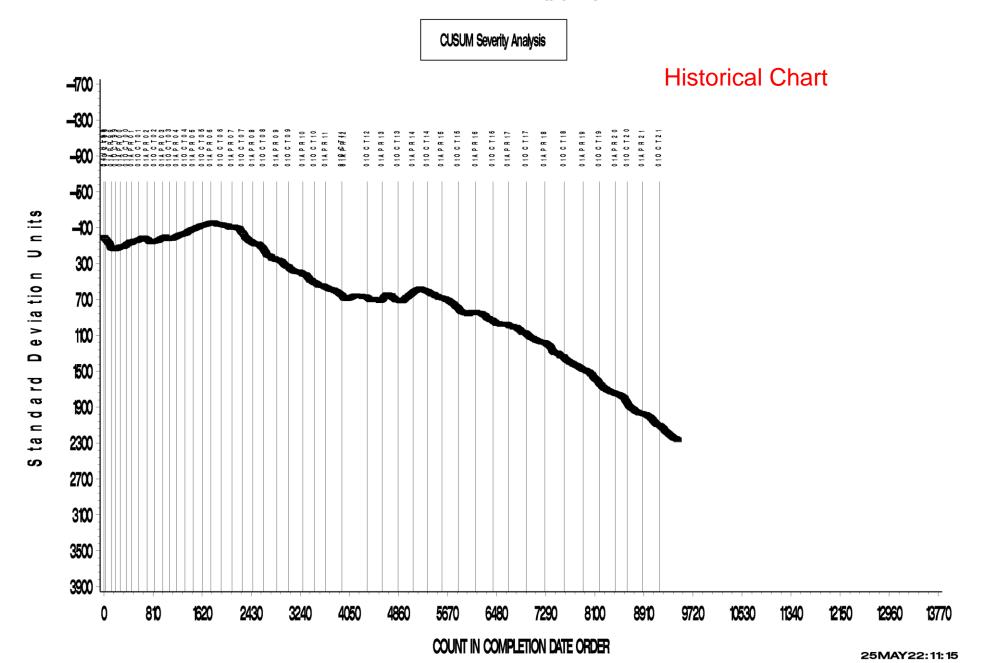


COPPER CHANGE (ppm)



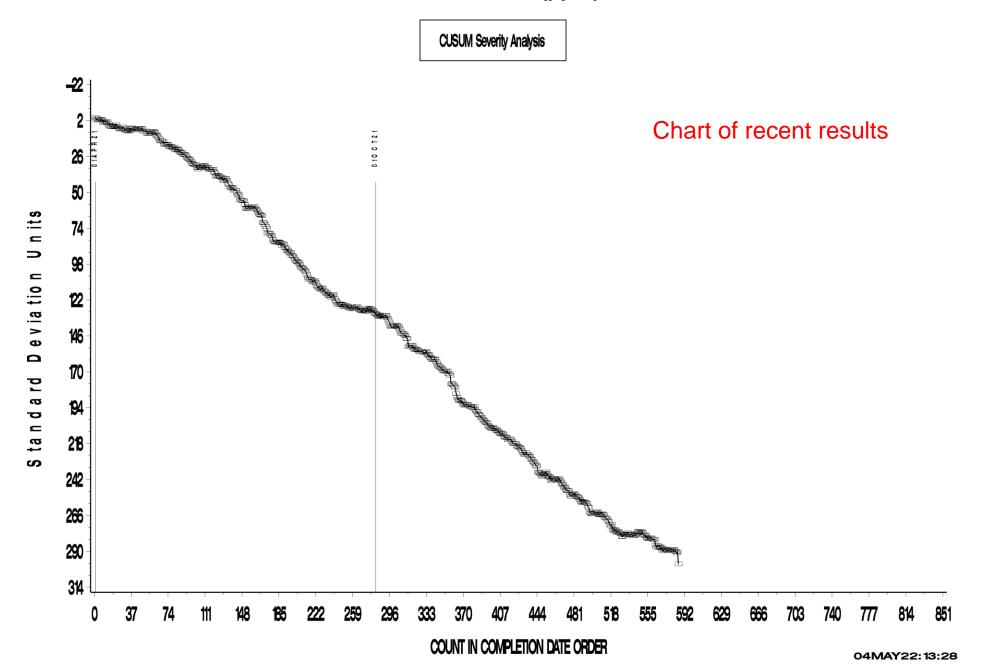


LEAD CHANGE (ppm)



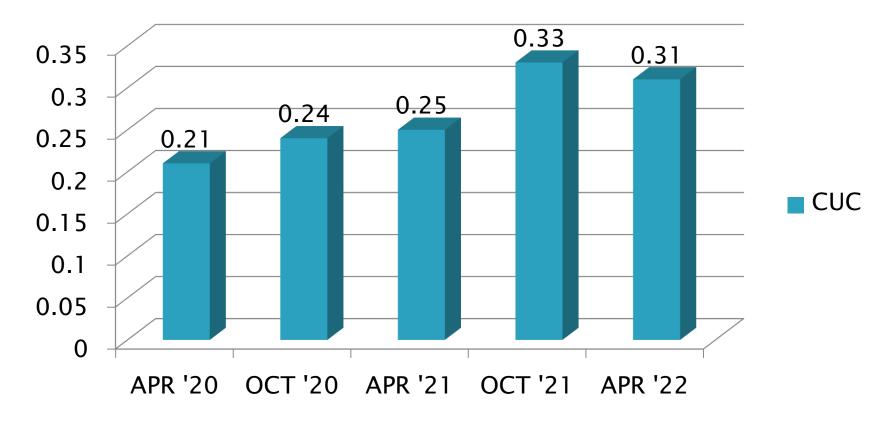


LEAD CHANGE (ppm)



HTCBT Precision Estimates

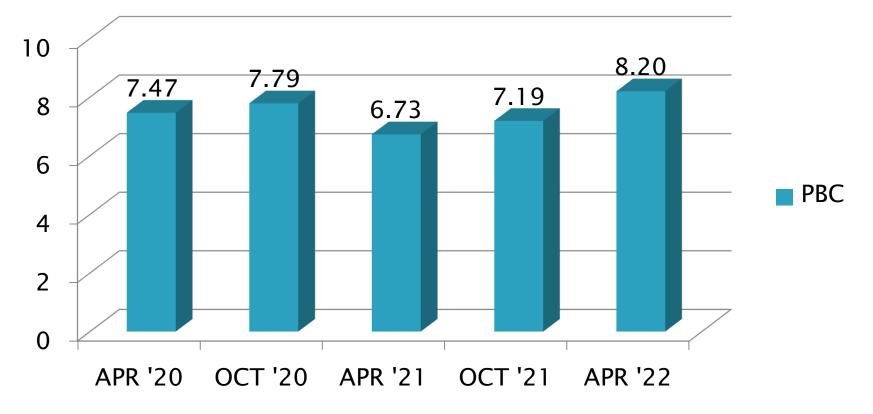
CUC





HTCBT Precision Estimates







Information Letters*

Test	Date	IL	Торіс		
			No information letters this period.		

*Available from TMC Website



Reference Oil Inventory Estimated Life

Oil	TMC Inventory (gallons)	Quantity Shipped in last 6 months (gallons)	Lab Inventory (samples)	Estimated Life
44-4	7.2	4.2	95	<1 year
1005-5	8.4 (remaining in reserved drum - Additional oil available at the TMC)	7.0	187	1.5 years

 Re-blended oil 44-5 available at the TMC. Must be introduced by the Surveillance Panel



Statistical Review

- The Surveillance Panel requested review of acceptance bands for reference oil 1005-5
- The Industry Statistician Team completed a detailed review of the HTCBT data
- An adjustment to the acceptance bands was not recommended
- Suggestions were made to review and analyze lab and instrument variability



Miscellaneous Information

- Available on TMC Website:
 - Oil Assignment Request and Test File Upload
 - Live Reference Test Data Bases
 - Surveillance Panel Meeting Minutes
- https://www.astmtmc.org/





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