



A Program of ASTM International

Test Monitoring Center

<http://astmtmc.cmu.edu>

ASTM Reference Testing Semi-Annual Report ASTM D6557 – BRT

October 2020

BRT Test Activity*

Test Status	Validity Code	Number of Tests
Acceptable Calibration Test	AC	126
Failed Calibration Test	OC	8
Operationally Invalid, by Lab	LC	7
Unacceptable Shakedown Run	MN	4
Acceptable Shakedown Run	NN	1
Total		146

- 5 labs reported data
- BRT was formalized into the LTMS on 10/1/2020

*April 1, 2020 – September 31, 2020

BRT Failed Tests

Failed Parameter	Number of Tests
Severe Average Gray Value	5
Mild Average Gray Value	3
Total	8

BRT Failed Tests by Lab

Failed Parameter	LTMS Lab					#
	A	B	D	G	L	
Severe Average Gray Value	0	0	3	2	0	5
Mild Average Gray Value	0	1	0	1	1	3
Total	0	1	3	3	1	8

BRT Lost Tests*

Status	Cause	#
Invalid	Air Flow Control Problem	3
Invalid	Acid pump or syringe malfunction	4
Total		7

*Invalid and aborted calibration tests

BRT Lost Tests by Lab

Cause	LTMS Lab					#
	A	B	D	G	L	
Air Flow Control Problem	1	1	0	1	0	3
Acid pump or syringe malfunction	0	0	1	2	1	4
Total	1	1	1	3	1	7

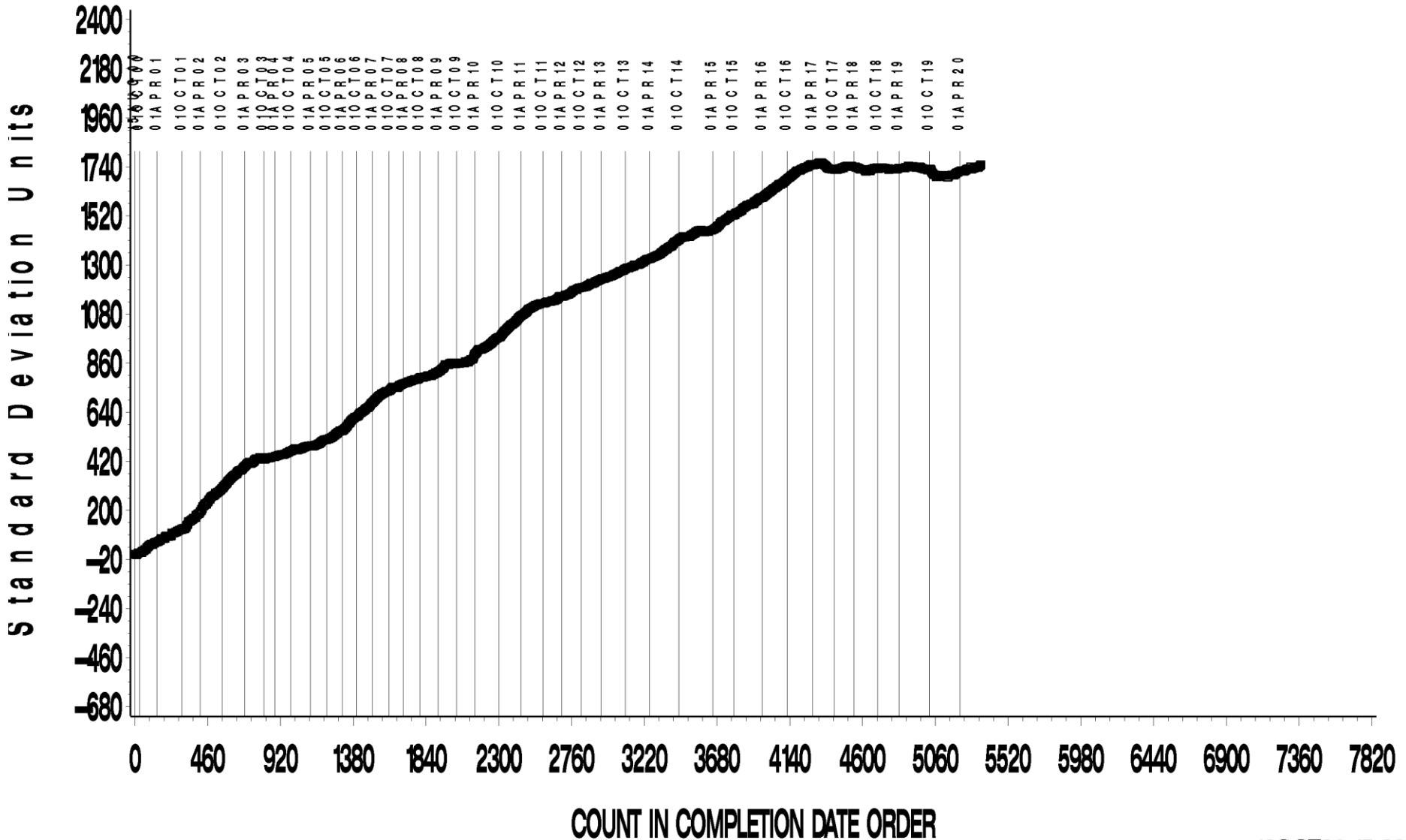
BRT Test Severity

- ▶ Average gray value is trending slightly mild

REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis

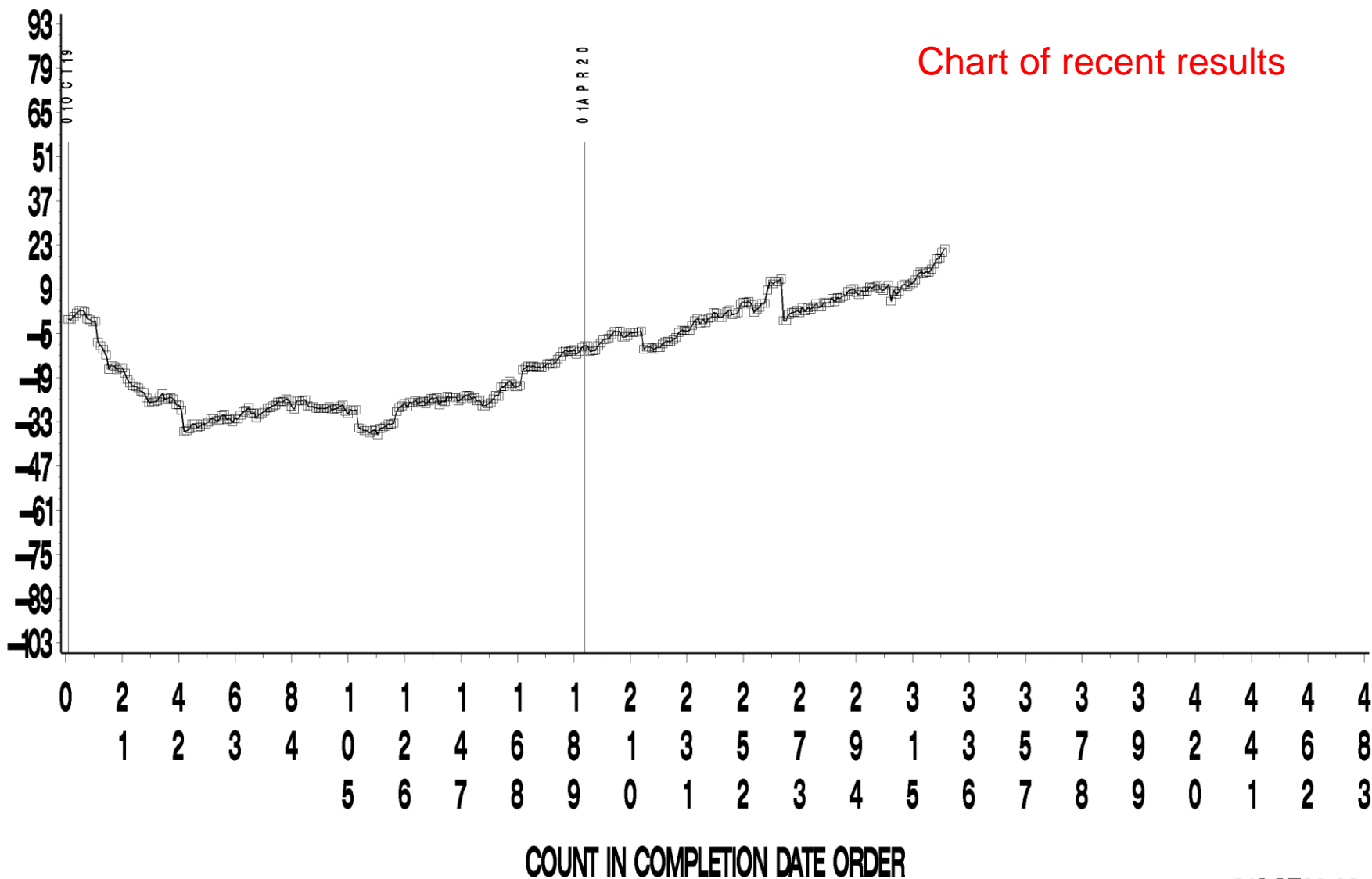
Historical Chart



REFERENCE AVERAGE GRAY VALUE

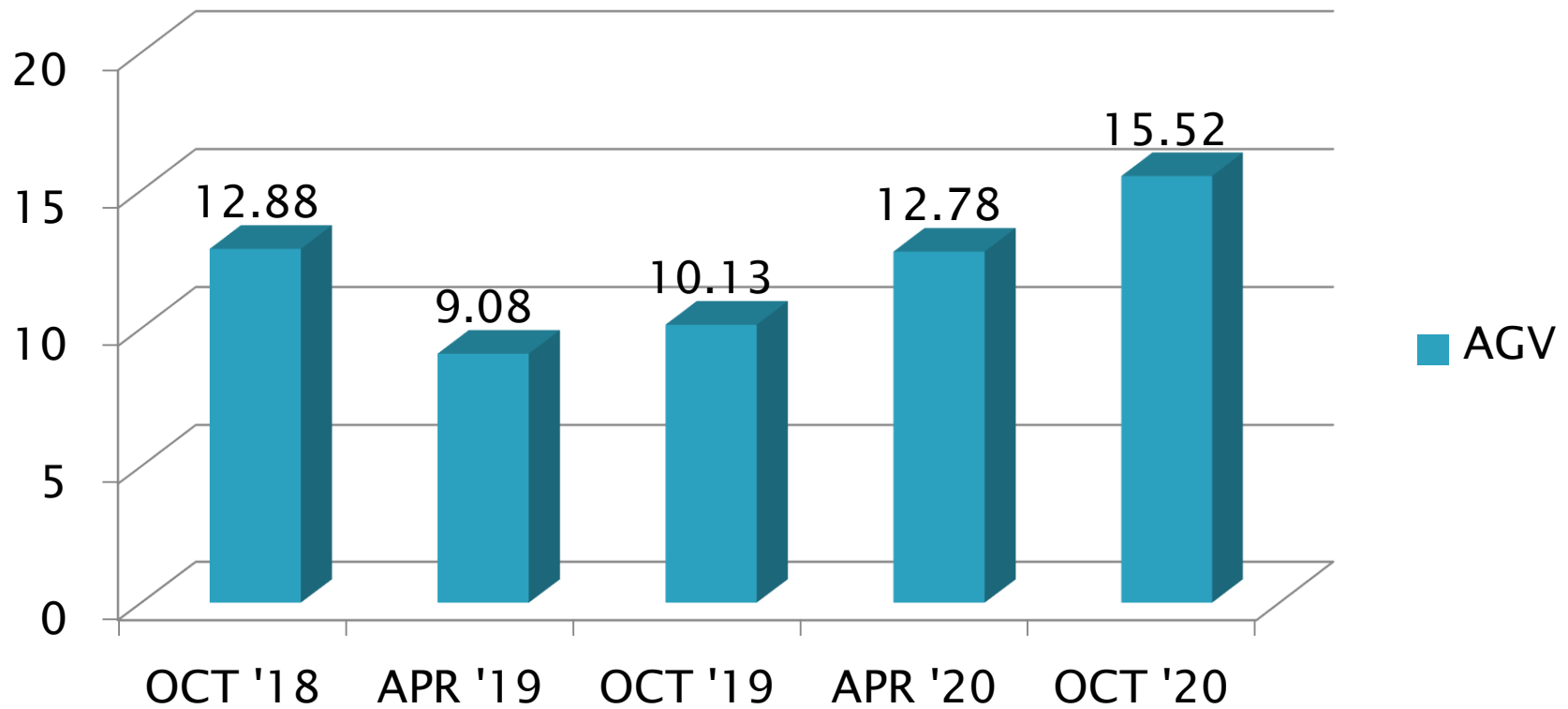
CUSUM Severity Analysis

Chart of recent results



BRT Precision Estimates

AGV



Information Letters*

Test	Date	IL	Topic
			No new 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
1006	32	0.2	36	5+ years
82-1	4.3	0.2	38	4 years
86	51.6	0.2	38	5+ years
87	95.5	0.2	35	5+ years

Miscellaneous Information

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



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