



A Program of ASTM International

# ***Test Monitoring Center***

<https://www.astmtmc.org>

## **ASTM Reference Testing Semi-Annual Report ASTM D6557 – BRT**

April 2022

# BRT Test Activity\*

Test Status	Validity Code	Number of Tests
Acceptable Calibration Test	AC	129
Failed Calibration Test	OC	13
Operationally Invalid, by TMC	RC	1
Aborted Test, by Lab	XC	2
<b>Total</b>		<b>145</b>

- 5 labs reported data

\*October 1, 2021 – March 31, 2022

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# BRT Failed Tests

Failed Parameter	Number of Tests
Severe Average Gray Value	7
Mild Average Gray Value	6
<b>Total</b>	<b>13</b>

# BRT Failed Tests by Lab

Failed Parameter	LTMS Lab					#
	A	B	D	G	L	
Severe Average Gray Value	0	0	4	3	0	7
Mild Average Gray Value	0	1	0	5	0	6
Total	0	1	4	8	0	13

# BRT Lost Tests\*

Status	Cause	#
Invalid	Airflow incorrect	1
Aborted	Shaker table malfunction	1
Aborted	Test time incorrect	1
<b>Total</b>		<b>3</b>

\*Invalid and aborted calibration tests

# BRT Lost Tests by Lab

Cause	LTMS Lab					#
	A	B	D	G	L	
Airflow incorrect	0	0	0	1	0	1
Shaker table malfunction	1	0	0	0	0	1
Test time incorrect	0	0	0	1	0	1
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>

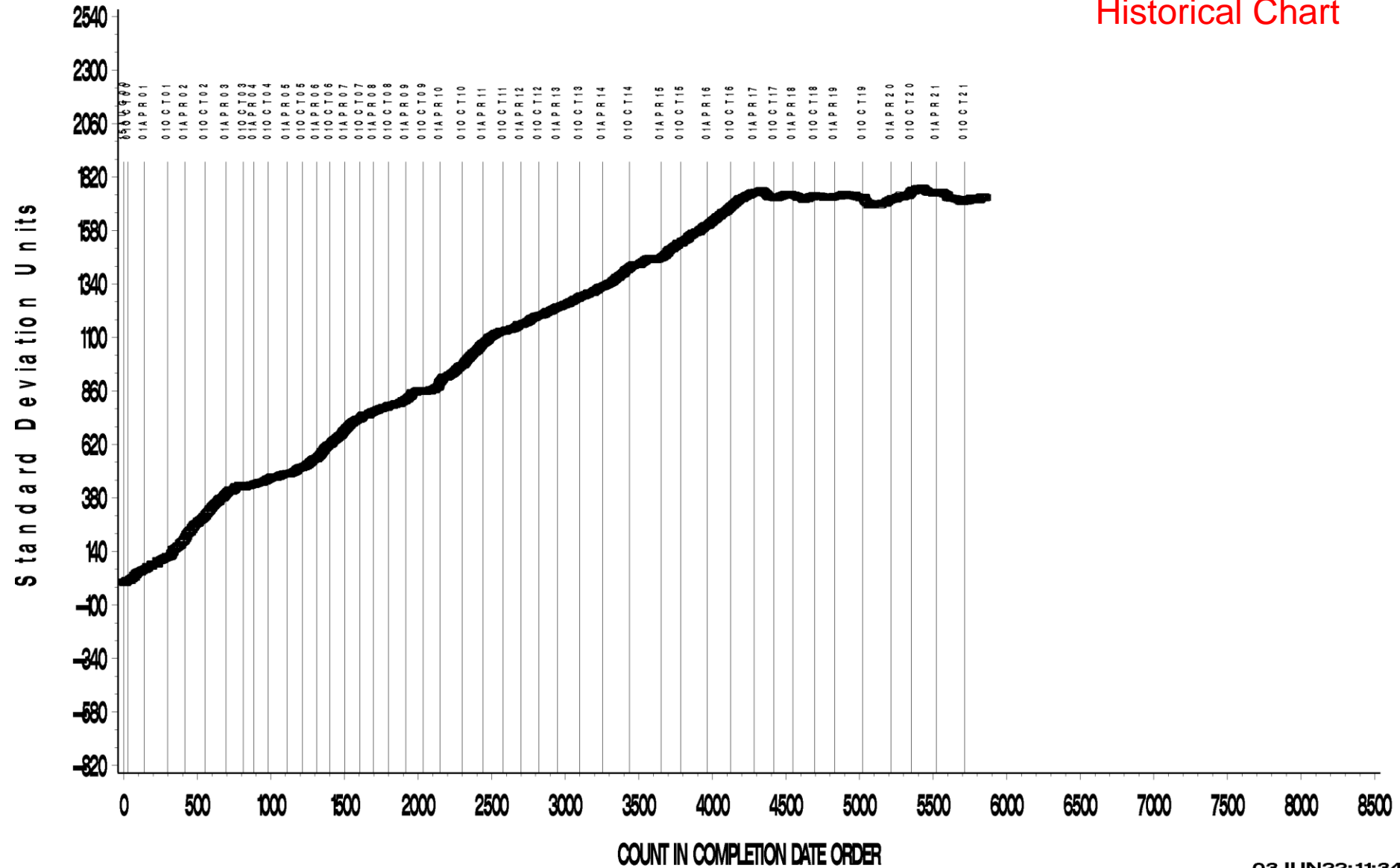
# BRT Test Severity

- ▶ Average gray value is on target

REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis

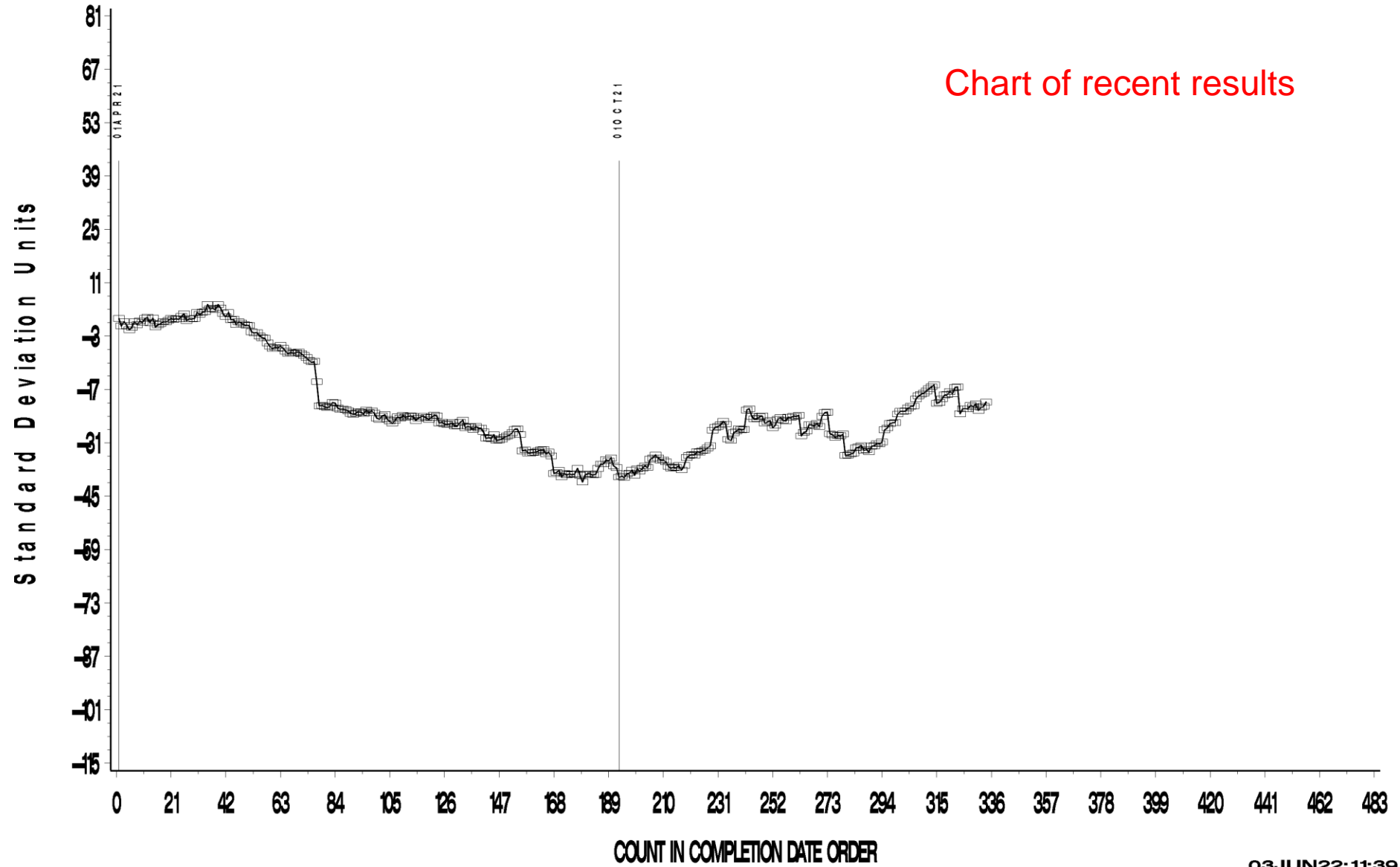
Historical Chart



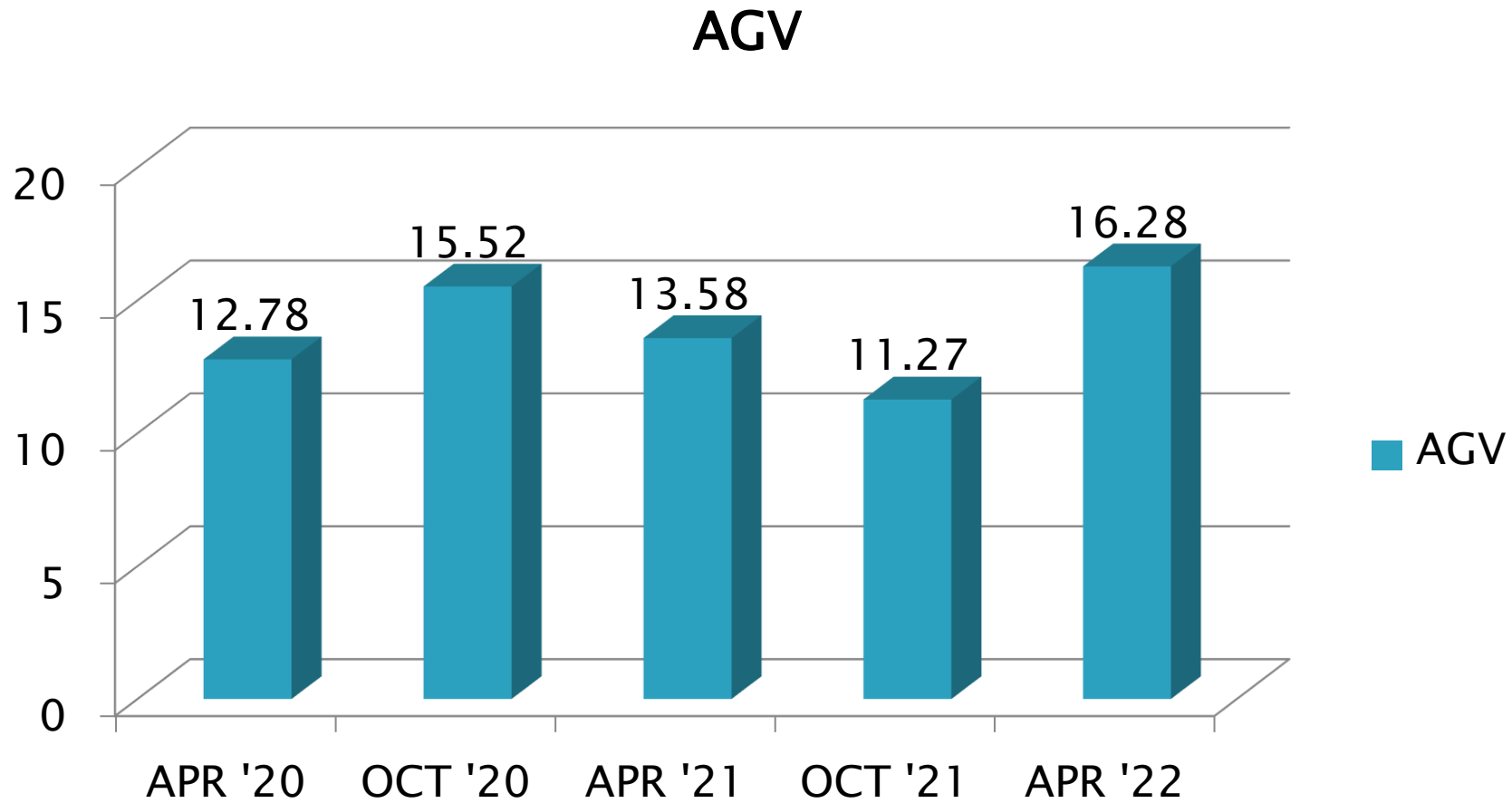


REFERENCE AVERAGE GRAY VALUE

CUSUM Severity Analysis



# BRT Precision Estimates



# Information Letters\*

Test	Date	IL	Topic
			No new information letters this period.

\*Available from TMC Website

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# Reference Oil Inventory Estimated Life

Oil	TMC Inventory (gallons)	Quantity Shipped in last 6 months (gallons)	Lab Inventory (samples)	Estimated Life
1006	30.3	0.4	43	5+ years
82-1	2.8	0.4	42	3 years
86	50.6	0.4	41	5+ years
87	94.4	0.4	42	5+ years

# 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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