



A Program of ASTM International

Test Monitoring Center

<http://astmtmc.cmu.edu>

ASTM Reference Testing Semi-Annual Report EOWT

Fall 2019

EOWT Test Activity*

Test Status	Validity Code	Number of Tests				Total
		0.6%	1.0%	2.0%	3.0%	
Acceptable Calibration Test	AC	239	240	239	240	958
Failed Calibration Test	OC	1	3	2	2	8
Aborted Calibration Test	XC	1	2	1	2	6
Total						972

*April 1, 2019 – September 30, 2019

EOWT Test Activity*

Test Status	Validity Code	Number of Tests by Reference Oil		Total
		79	77-3	
Acceptable Calibration Test	AC	477	481	958
Failed Calibration Test	OC	3	5	8
Aborted Calibration Test	XC	1	5	6
Total				972

*April 1, 2019 – September 30, 2019

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EOWT Failed Tests

Failed Parameter	Number of Tests				Total
	0.6%	1.0%	2.0%	3.0%	
Severe Change in Flowrate	0	1	2	1	4
Mild Change in Flowrate	1	2	0	1	4
Total					8

EOWT Lost Tests*

Status	Cause	Number of Tests				#
		0.6%	1.0%	2.0%	3.0%	
Aborted	Sample Preparation Error	1	1	1	1	4
Aborted	Operator Error	0	1	0	0	1
Aborted	Mechanical Failure	0	0	0	1	1
Total						6

*Invalid and aborted calibration tests

EOWT Test Severity

- ▶ Change in flowrate is trending severe for all treat rates.

EOWT INDUSTRY OPERATIONALY VALID DATA
CFA 0.6% Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.



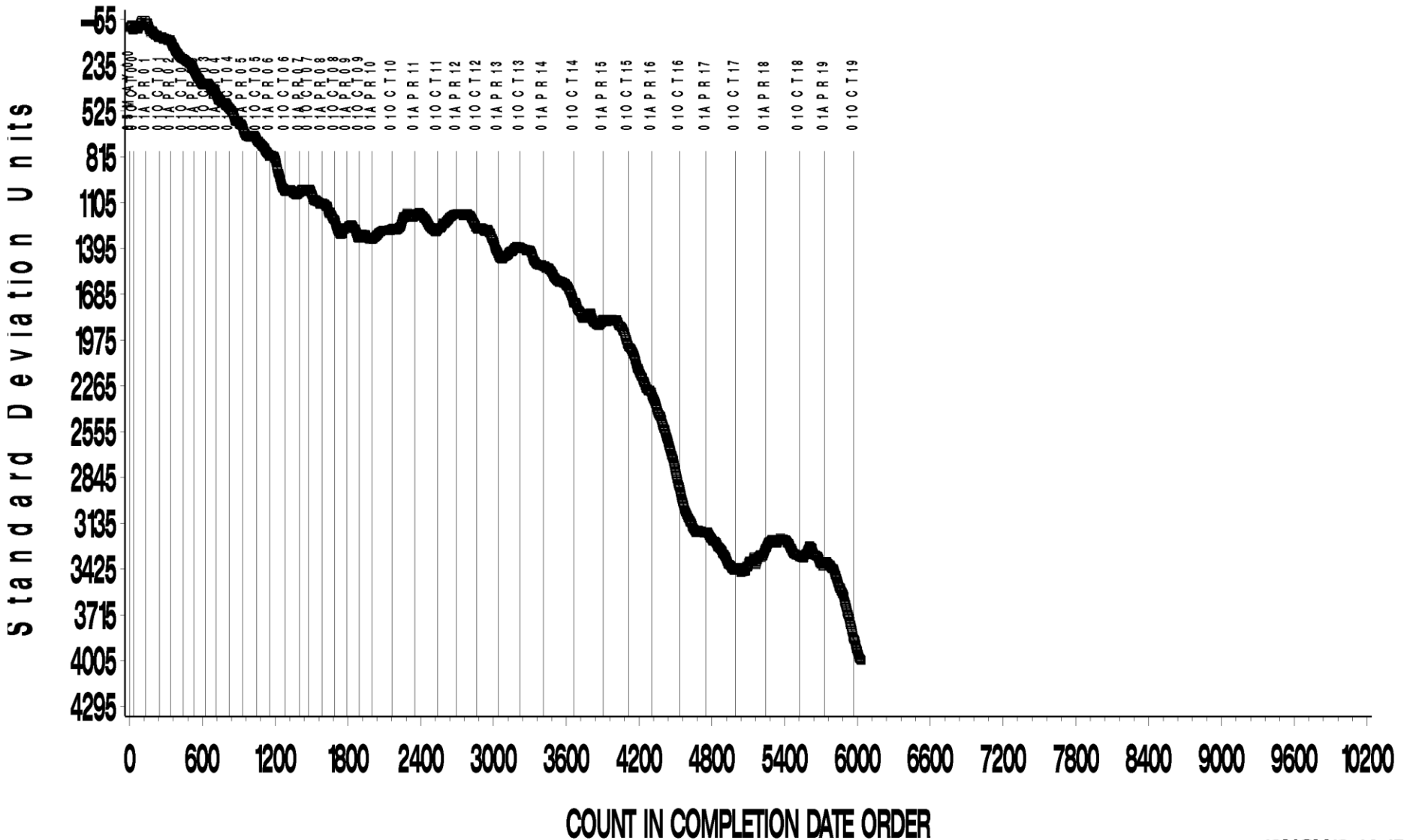
CUSUM Severity Analysis



EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 1.0% Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.



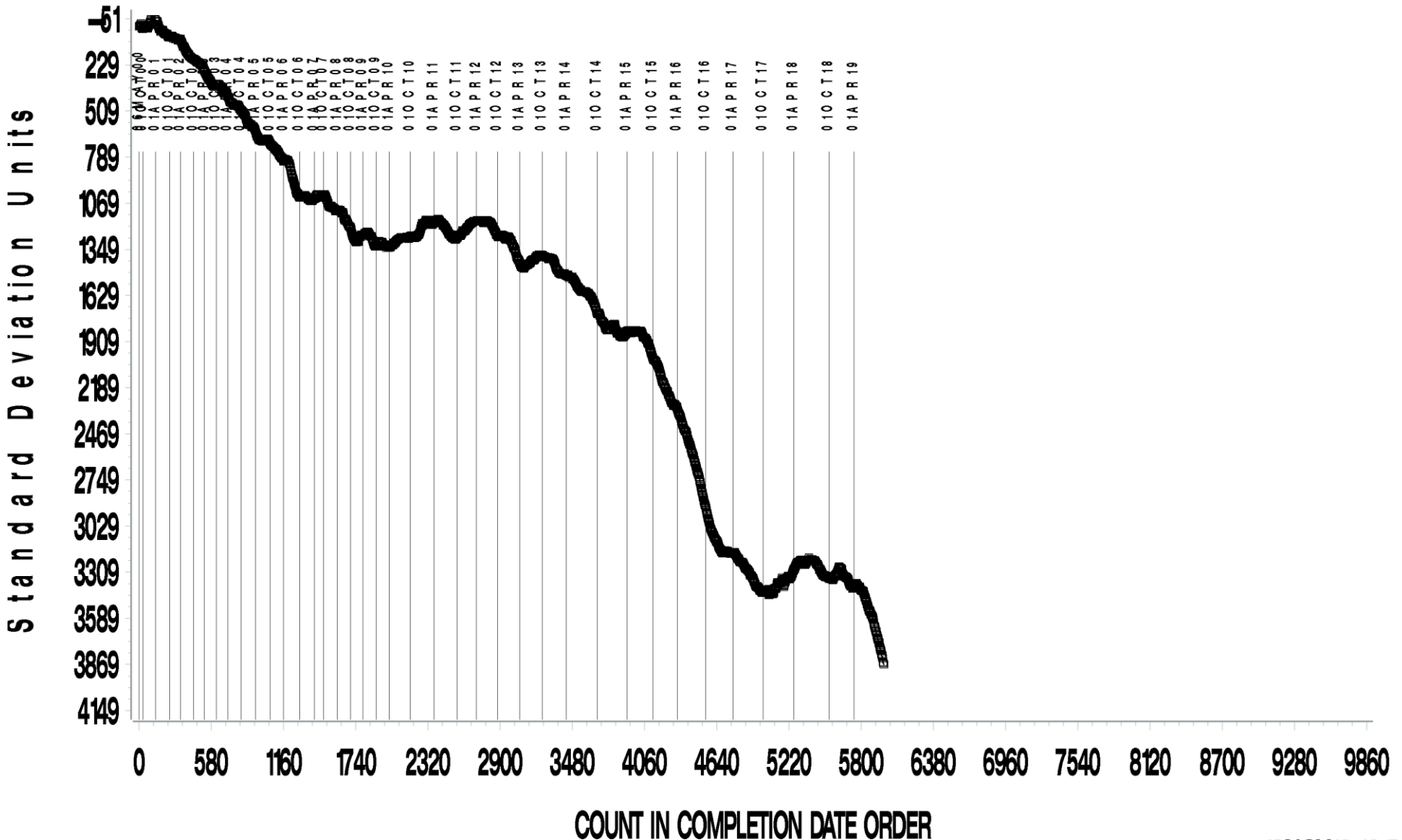
CUSUM Severity Analysis



**EOWT INDUSTRY OPERATIONALLY VALID DATA
CFA 2.0% Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.**



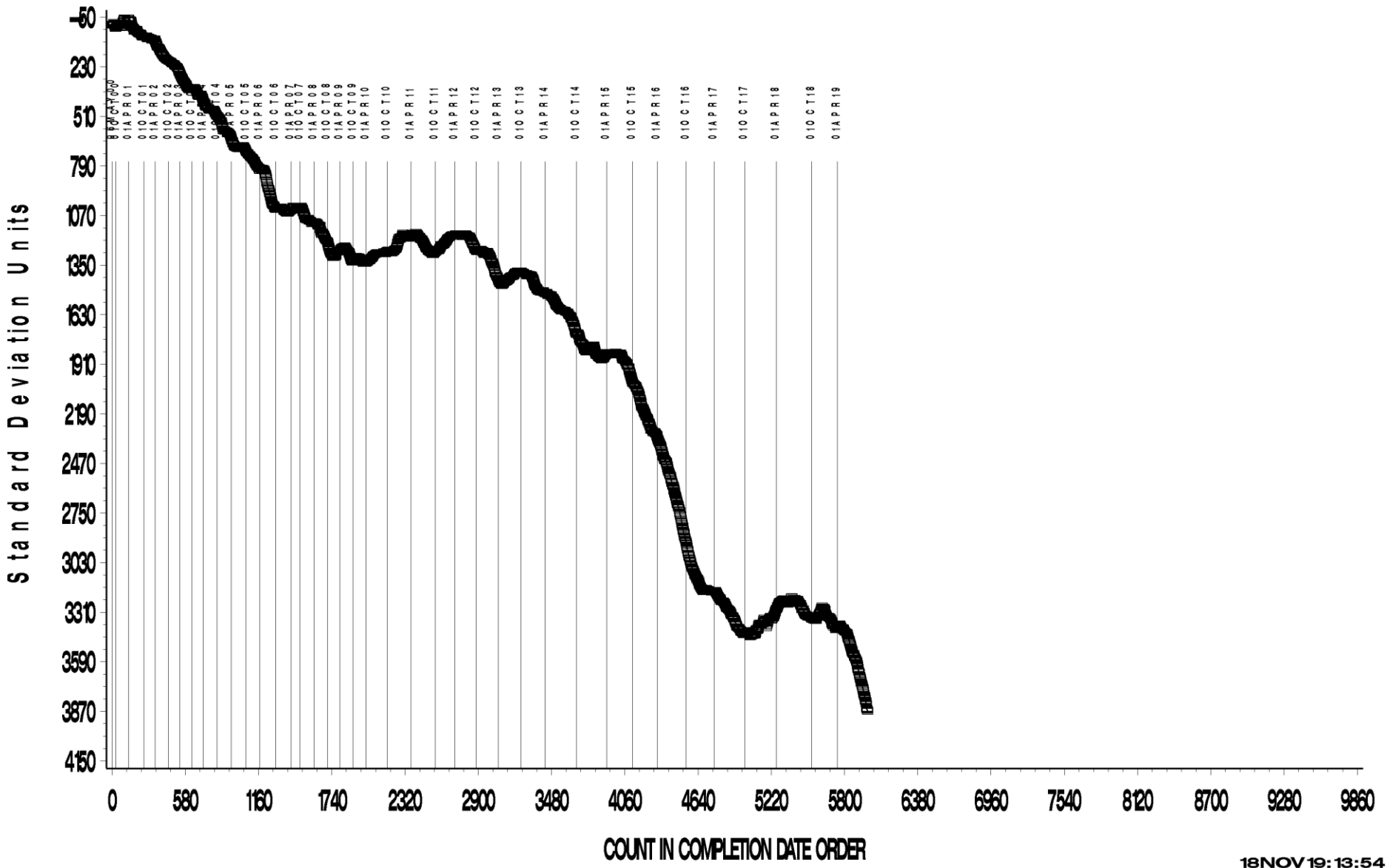
CUSUM Severity Analysis



EOWT INDUSTRY OPERATIONAL VALID DATA
CFA 3.0% Treat Rate
20 —25 ML CHANGE IN FLOWRATE AVG.

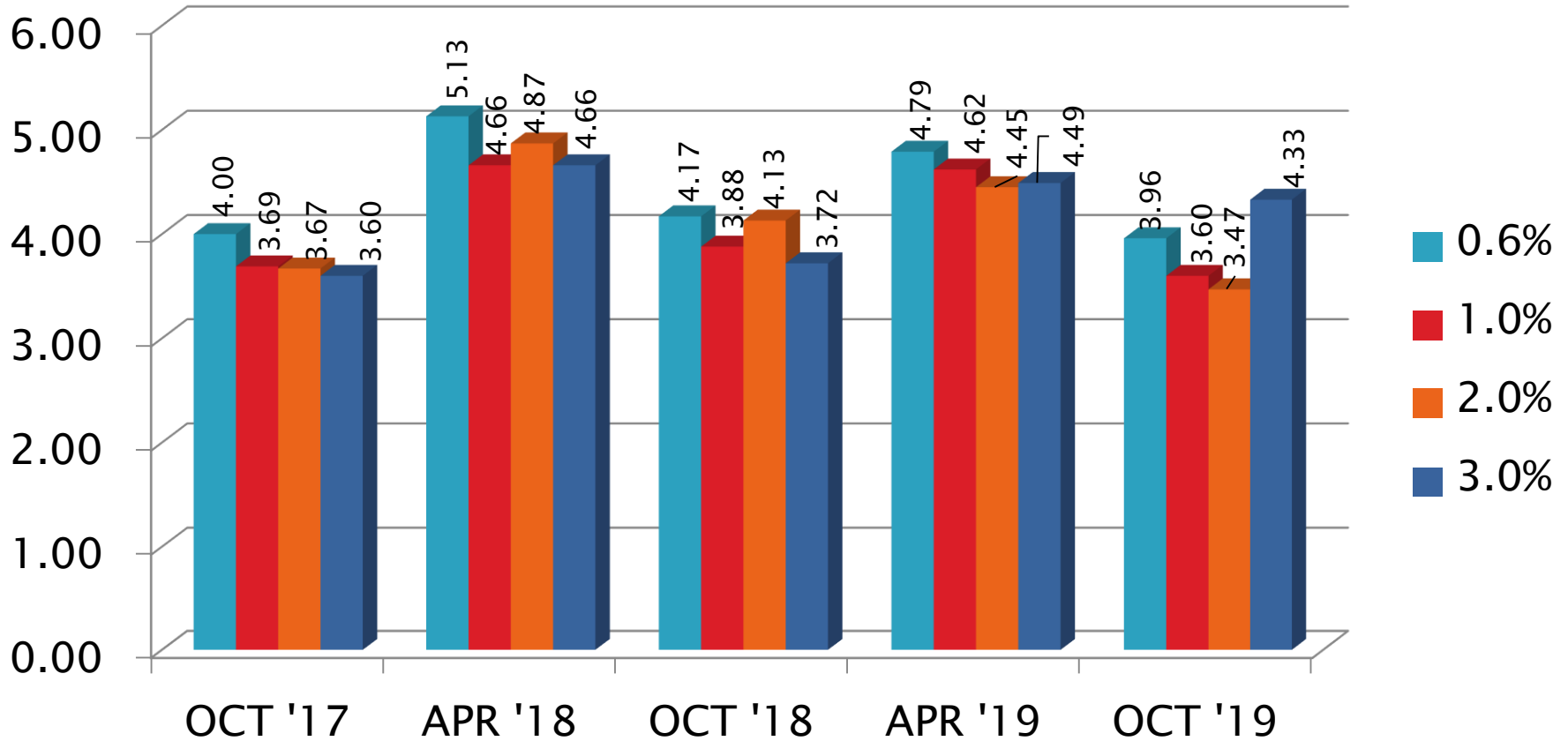


CUSUM Severity Analysis



EOWT Precision Estimates

CFA



Information Letters*

Test	Date	IL	Topic
EOWT	4/1/2019	19-1	Refinements to the Test Method

*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
77-3	672	47	107	5+ years
79	535	67	110	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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