



A Program of ASTM International

Test Monitoring Center

<https://www.astmtmc.org>

ASTM D02.B2 Semi-Annual Report Heavy Duty Reference Oil Testing

Spring 2026

Table of Contents

Section	Topic
Executive Summary	
	<u>Summary Items</u>
	<u>Calibrated Labs and Stands</u>
CAT Tests	
	<u>1K</u>
	<u>1N</u>
	<u>1M-PC</u>
	<u>1P</u>
	<u>1R</u>
	<u>C13</u>
	<u>COAT</u>
Daimler Tests	
	<u>DD13</u>

Table of Contents

Section	Topic
Cummins Tests	
	ISB
	ISM
	ISBV108
	ISBV156
Light Duty Diesel Tests	
	EOAT
	RFWT
Mack Tests	
	T-8/T-8E
	T-11
	T-12
	T-12A
	T-13

Table of Contents

Section	Topic
Additional Information	
	<u>Information Letters</u>
	<u>Memos</u>
	<u>Reference Oil Inventory</u>
	<u>LTMS Deviations</u>
	<u>Quality Index Deviations</u>
	<u>TMC Laboratory Visits</u>
	<u>Test Area Time Lines</u>
	<u>Rating Workshop Data</u>
	<u>Misc. Information</u>

Calibrated Labs and Stands*

Test	Labs	Stands		Test	Labs	Stands
1K	1	1		EOAT	1	1
1N	1	1		RFWT	1	1
1P	2	2		T-8/E	2	2
1R	1	1		T-11	1	1
C13	1	1		T-12/T-12A	2/2	2/2
COAT	1	1		T-13	3	5
ISB	4	8		DD13	3	3
ISM	3	4				
ISBV108	5	7				
ISBV156	5	9				

*As of 3/31/2026

[Return to Table of Contents](#)

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SCOTE 1K

»» April 2026

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1 K Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

1 K Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

1 K Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

1 K Test Severity

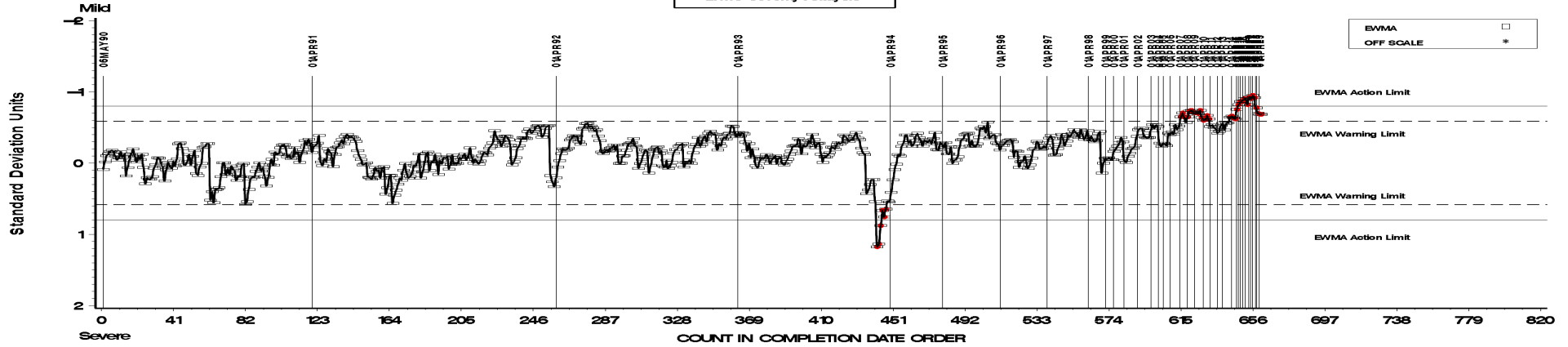
- ▶ As no chartable 1K tests were run during this reporting period, no statement on test severity can be made.

CATERPILLAR 1K INDUSTRY OPERATIONALLY VALID DATA

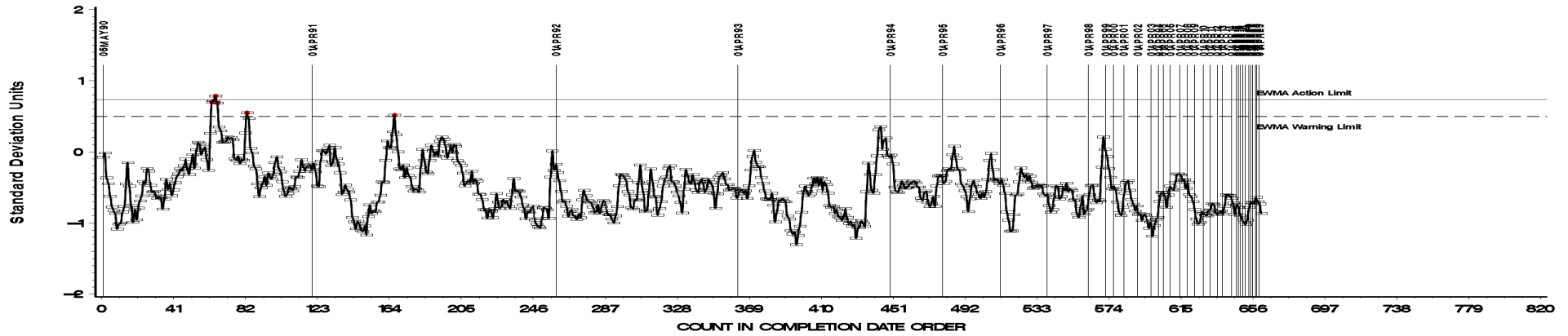


FINAL BSOC

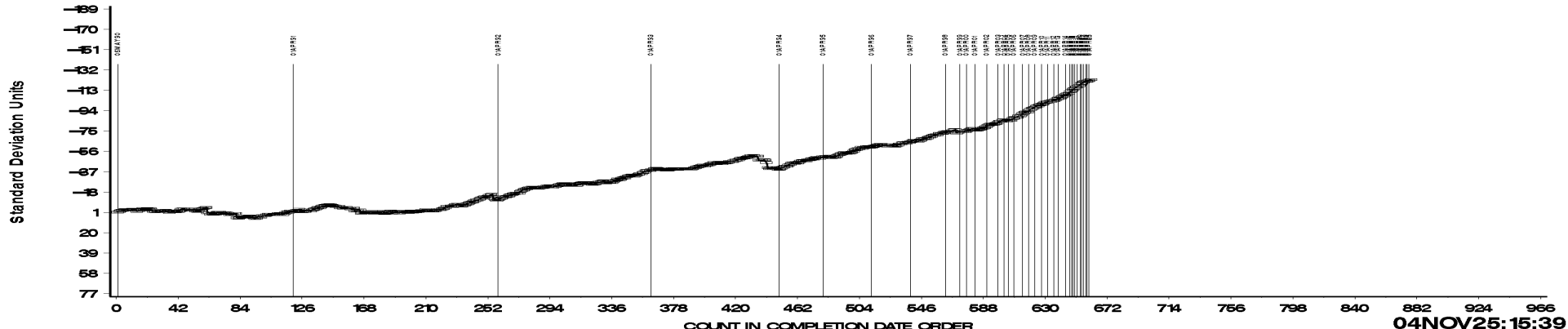
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

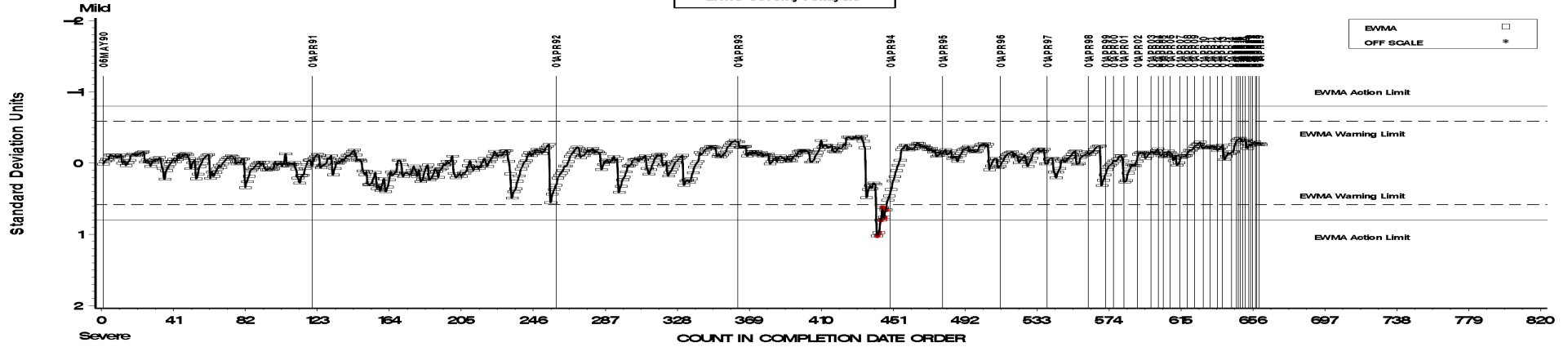


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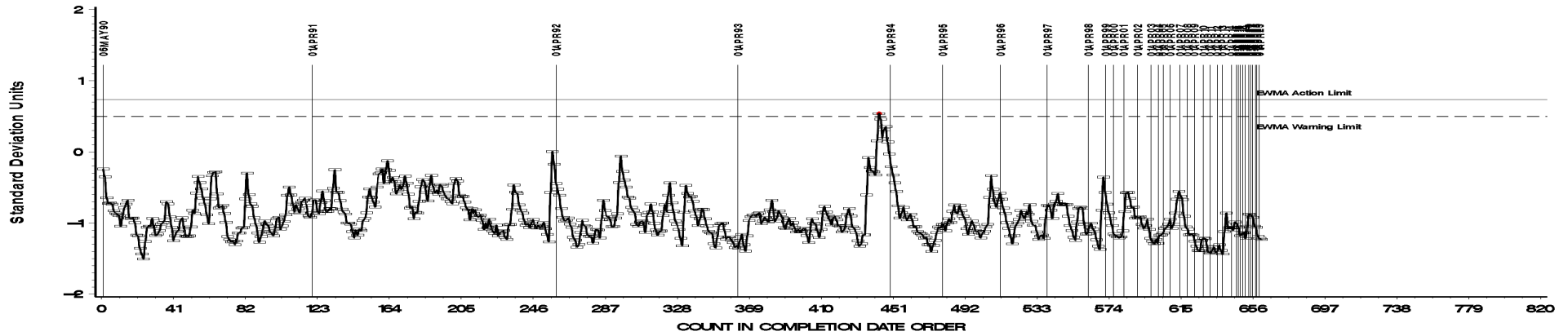


FINAL EOTC

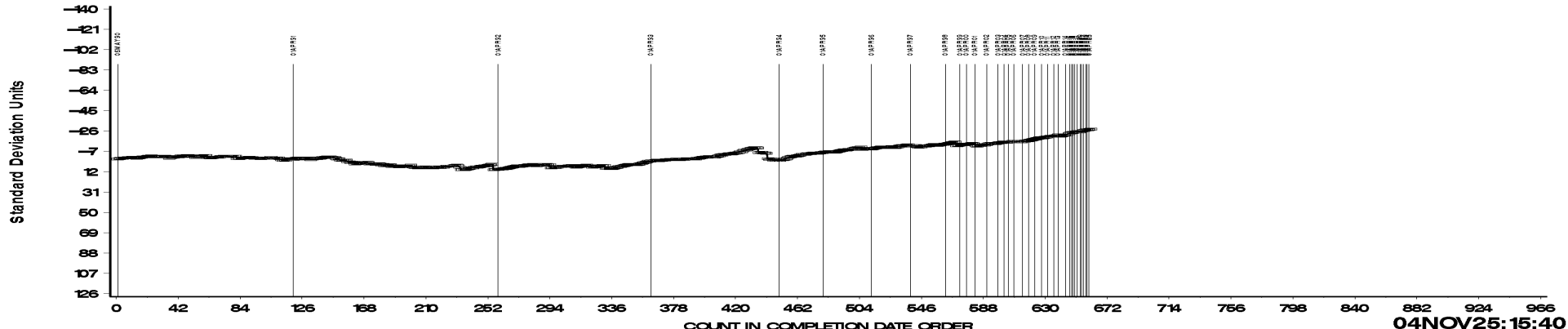
LTMS Severity Analysis



LTMS Precision Analysis



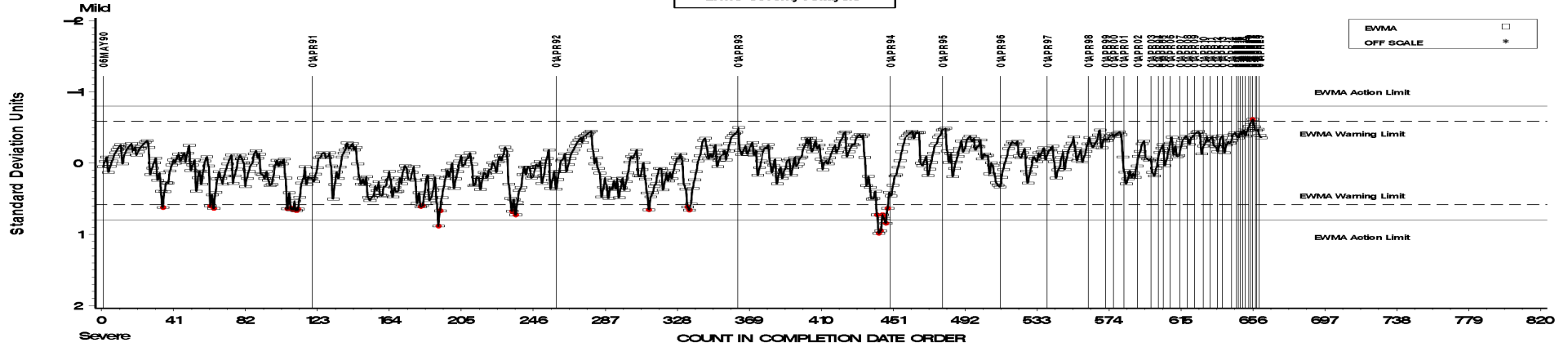
CUSUM Severity Analysis



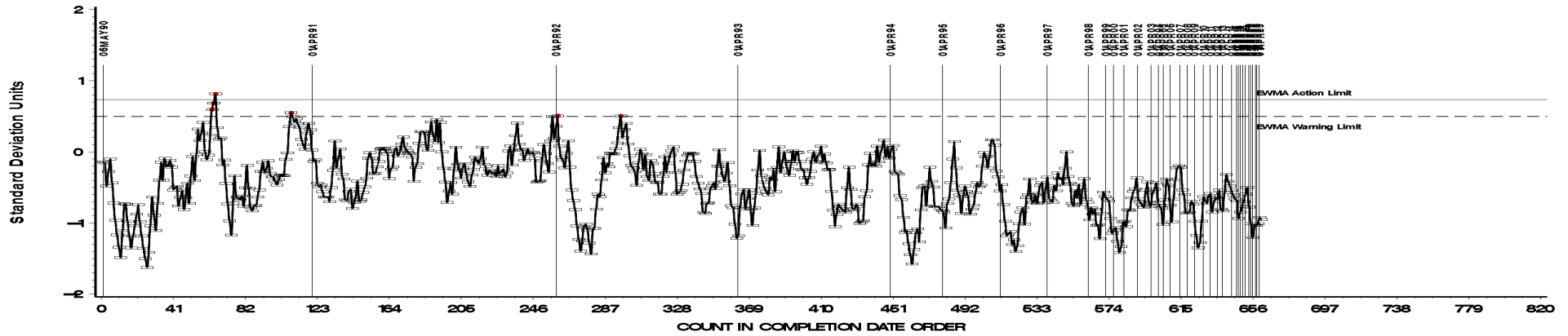
CATERPILLAR 1K INDUSTRY OPERATIONALLY VALID DATA

FINAL TLHC

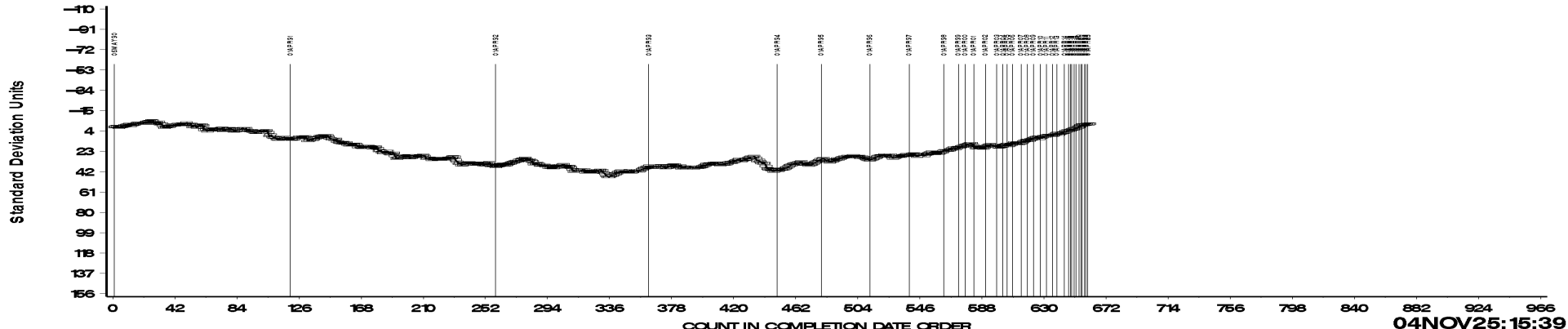
LTMS Severity Analysis



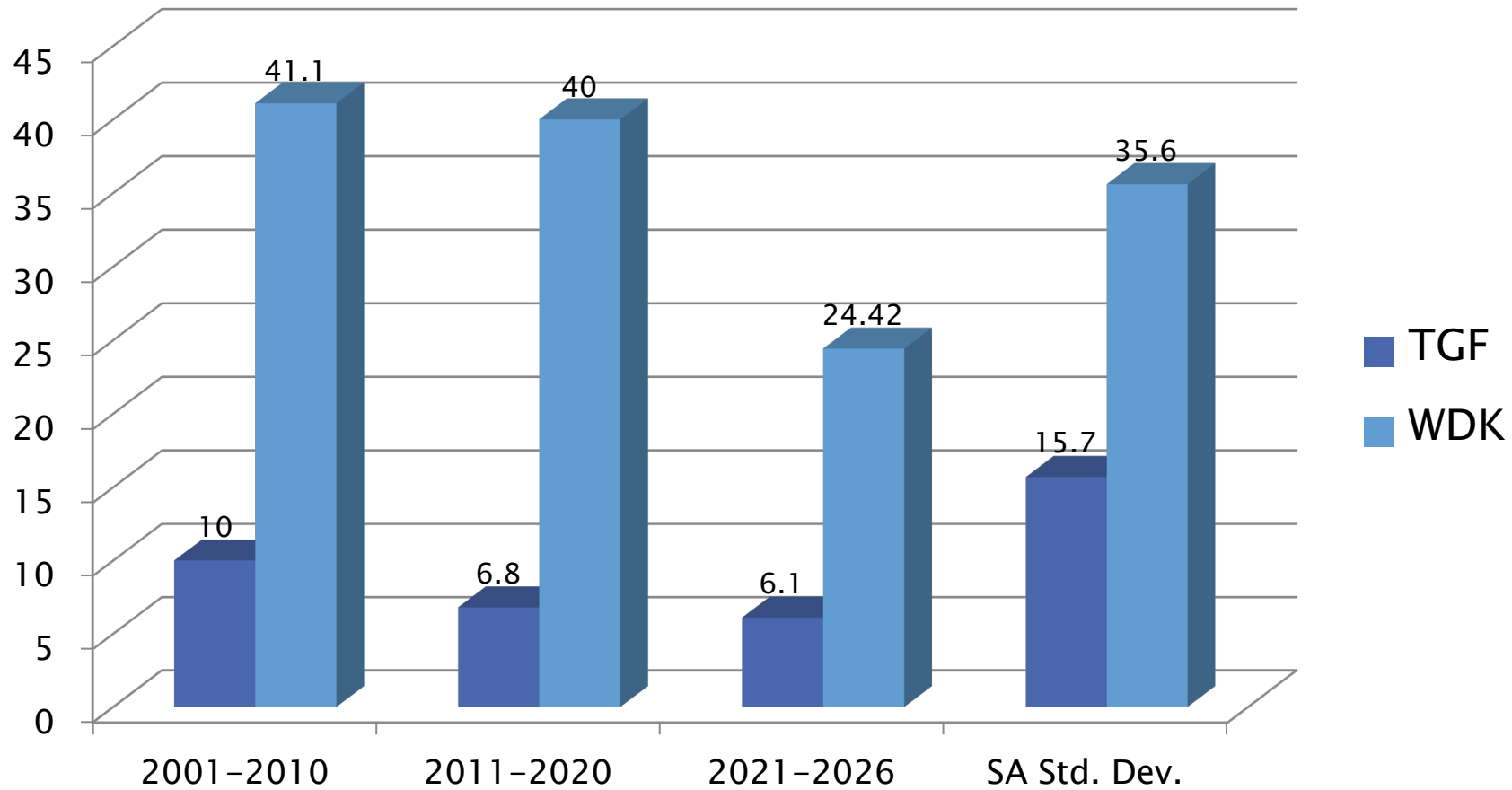
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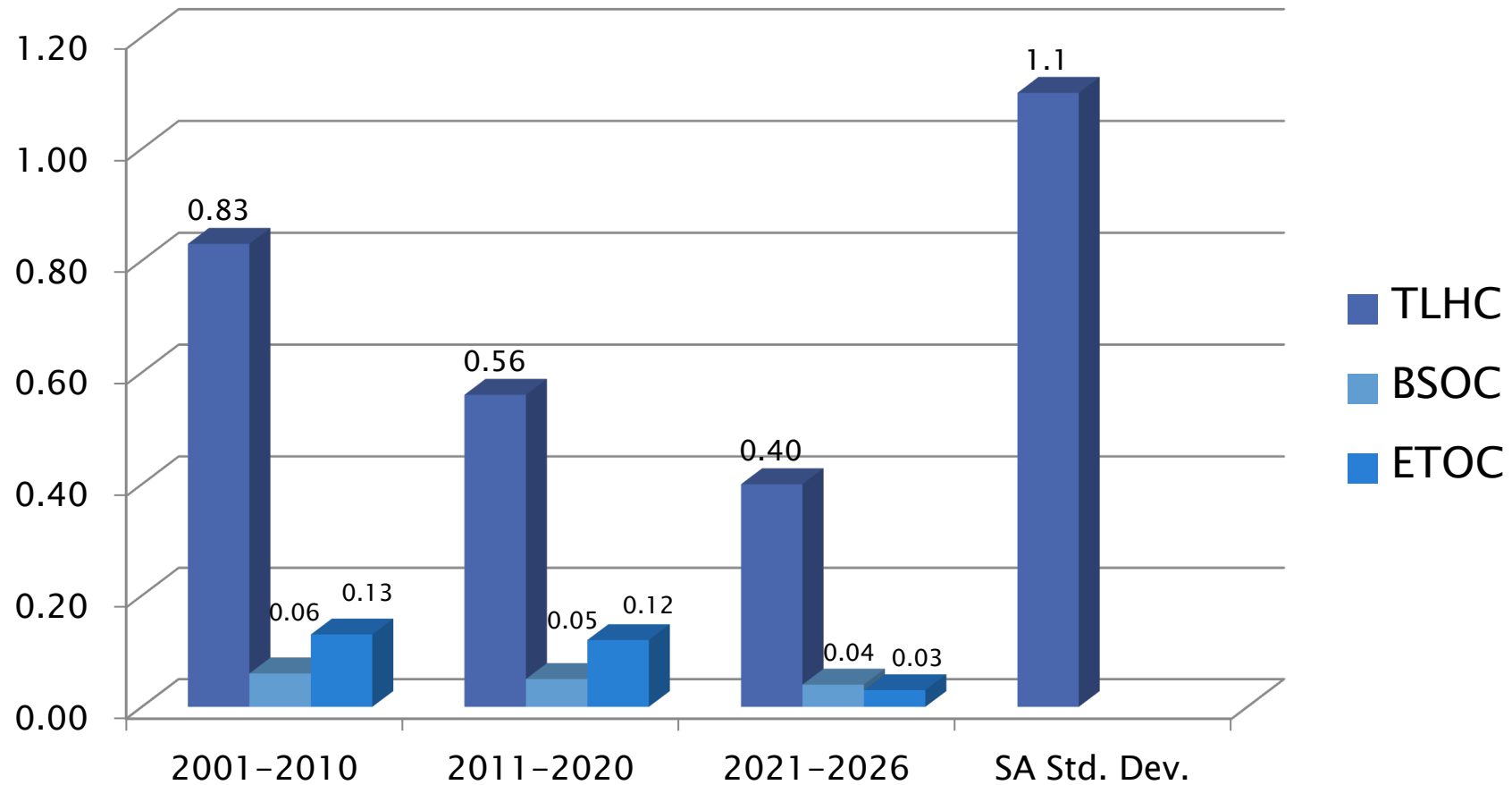
CUSUM Severity Analysis



1 K Precision Estimates



1 K Precision Estimates



[Return to Table of Contents](#)

SCOTE 1N

»» April 2026

1 N Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	2
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Informational	NN	0
Total		2

1 N Failed Tests

Failed Parameter	Number of Tests
No Failed Tests	0
Total	0

1 N Lost Tests*

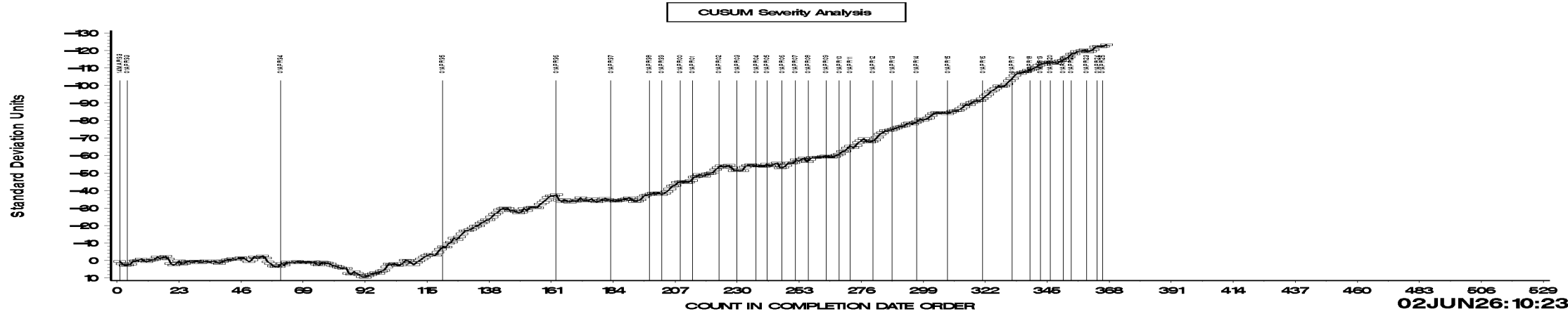
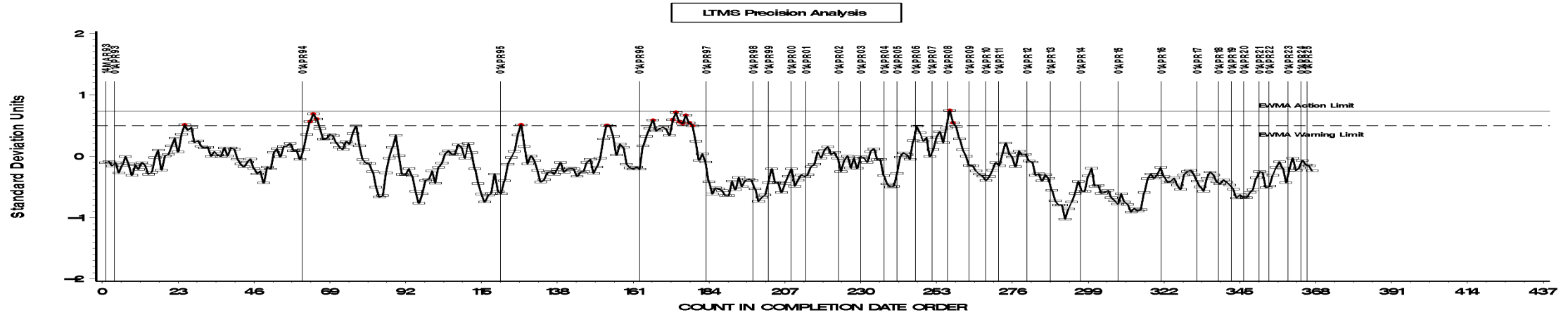
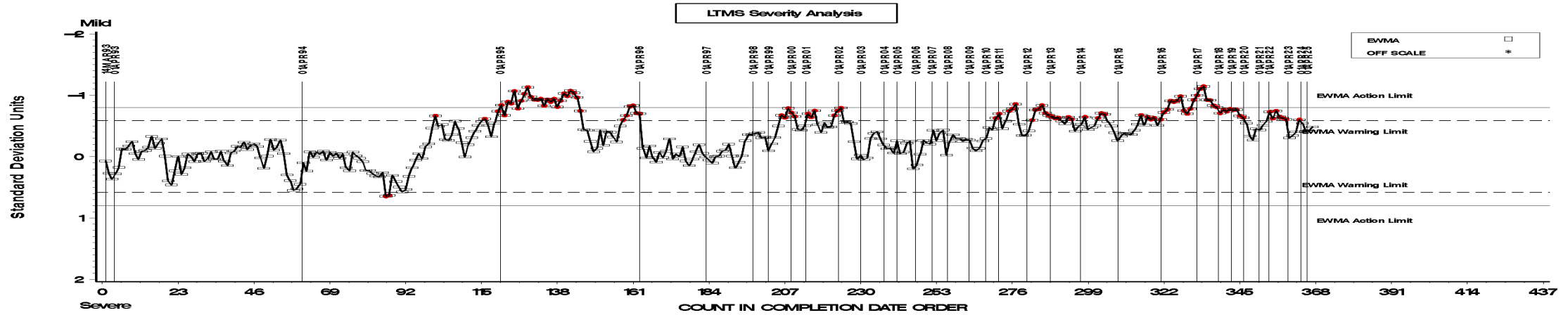
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

1 N Test Severity

- ▶ TGF is in Precision Action Alarm
- ▶ All other parameters are in control.

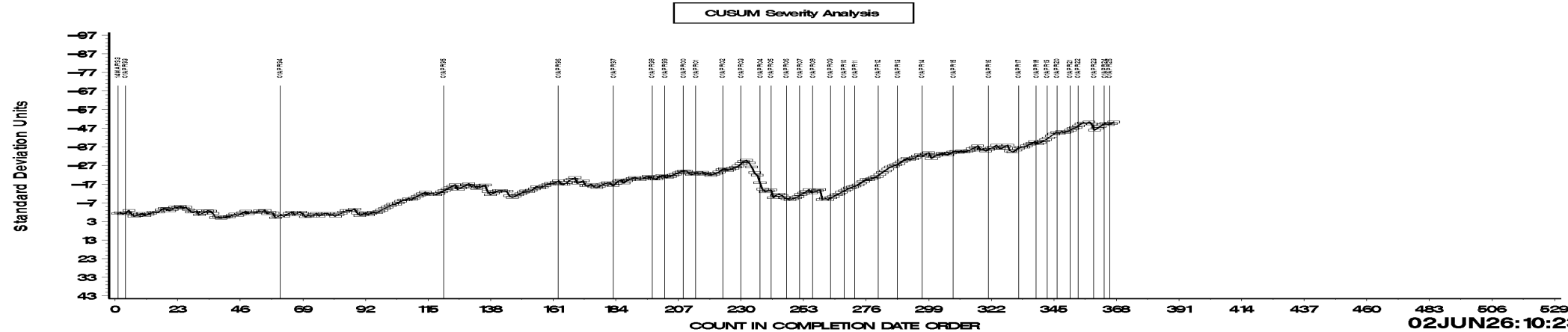
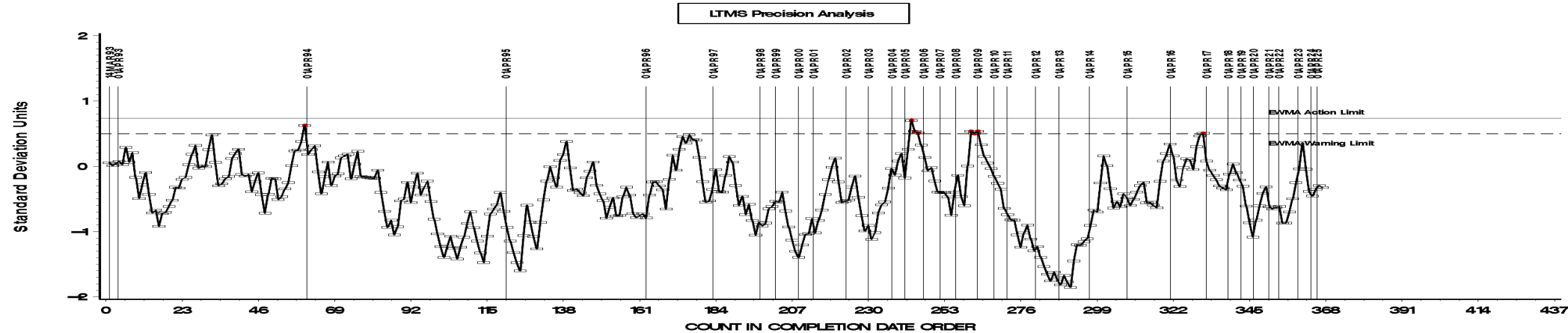
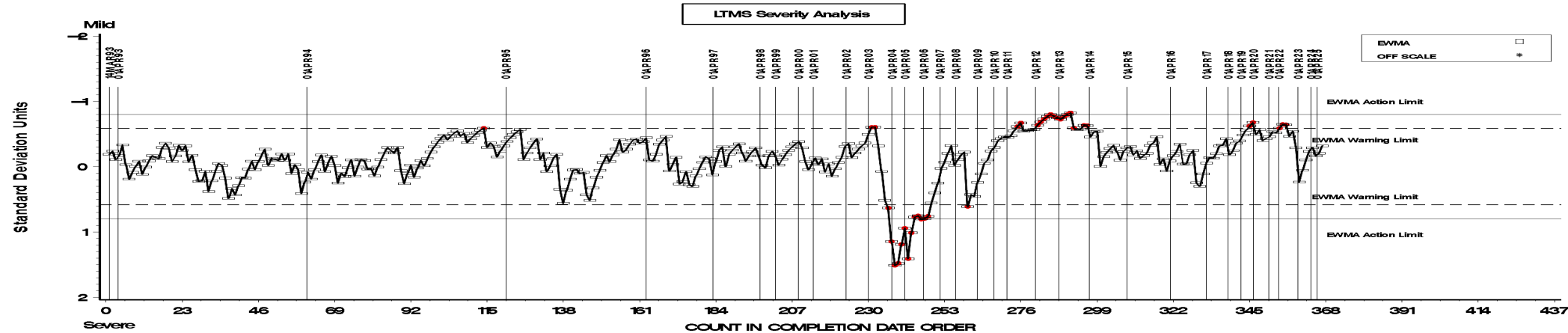
Weighted Total Demerits



CATERPILLAR 1N INDUSTRY OPERATIONALLY VALID DATA



Top Land Heavy Carbon

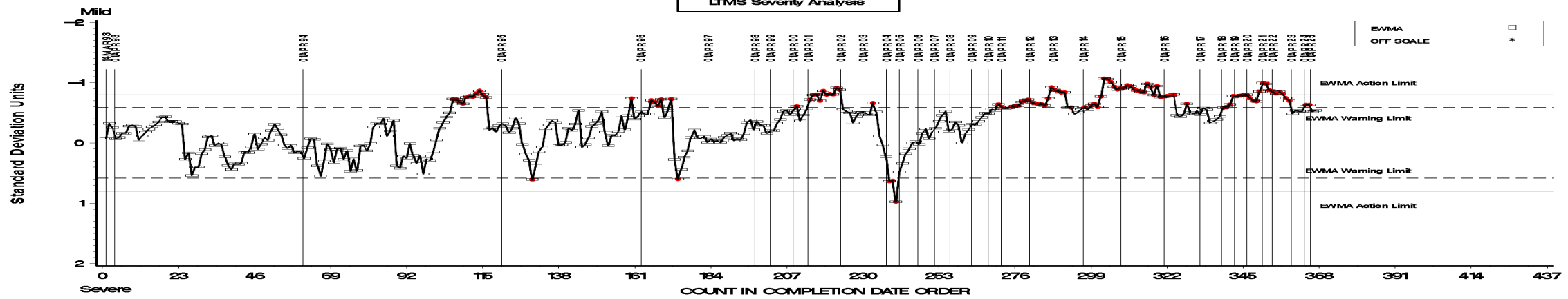


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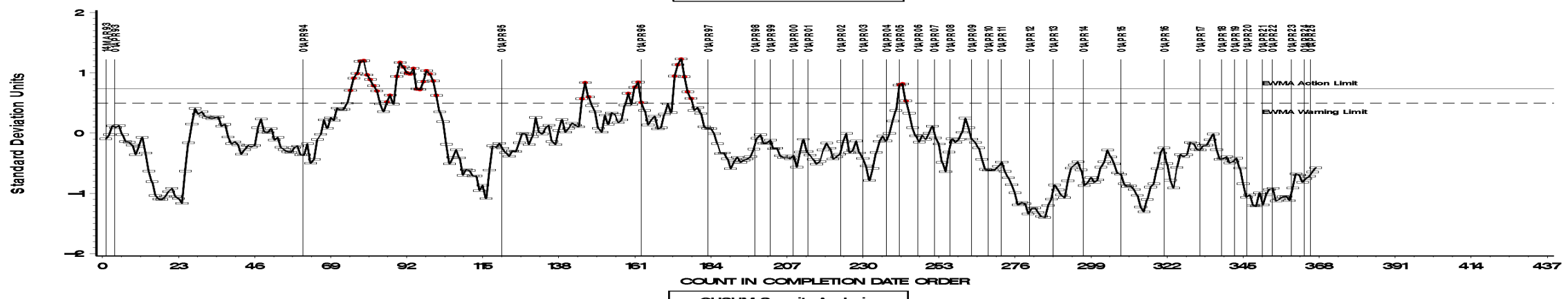


BSOC

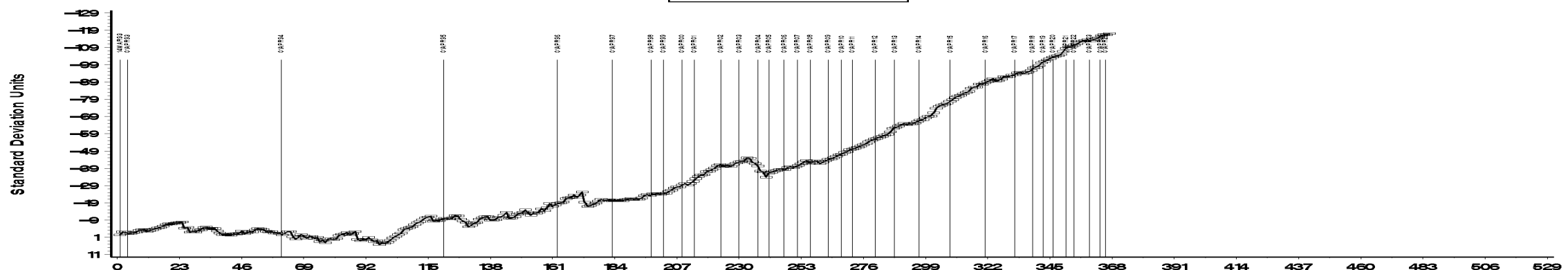
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

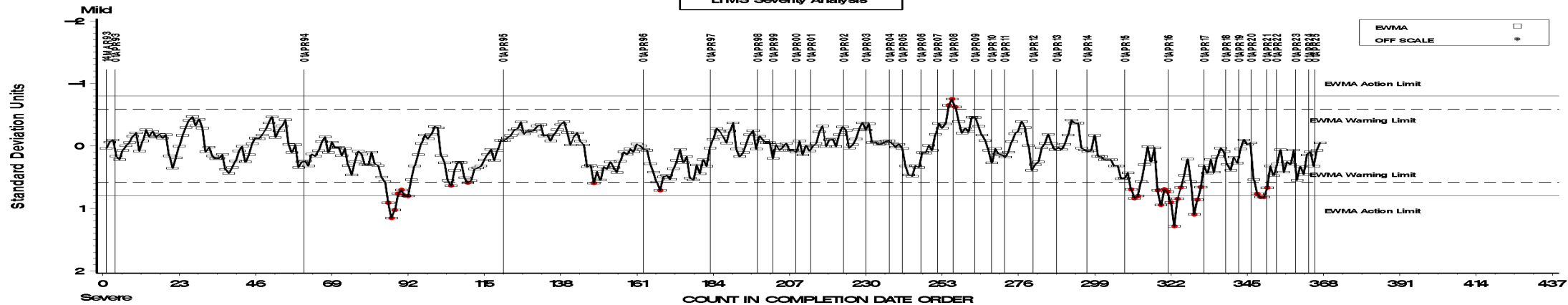


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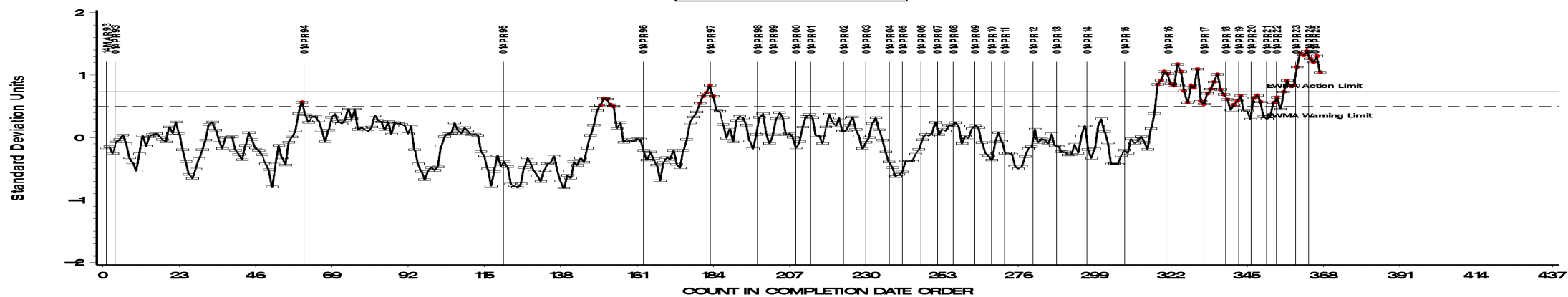


FINAL CORRECTED TGF

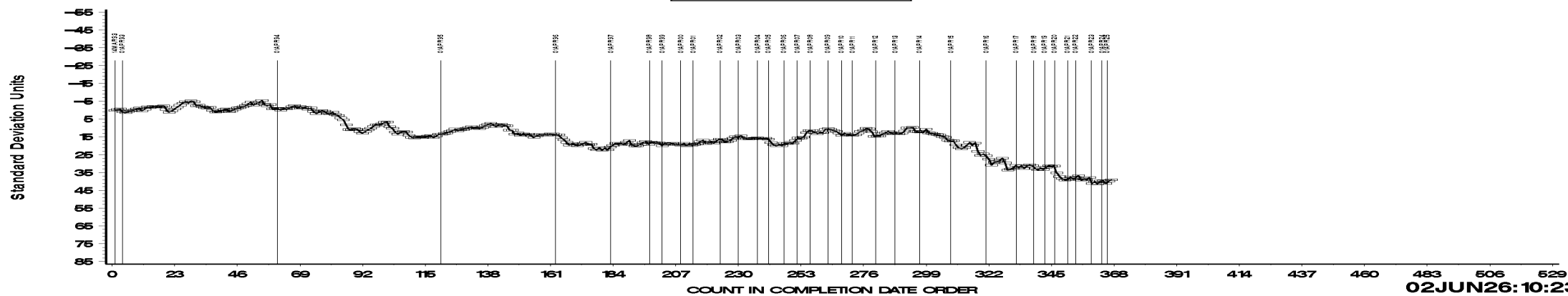
LTMS Severity Analysis



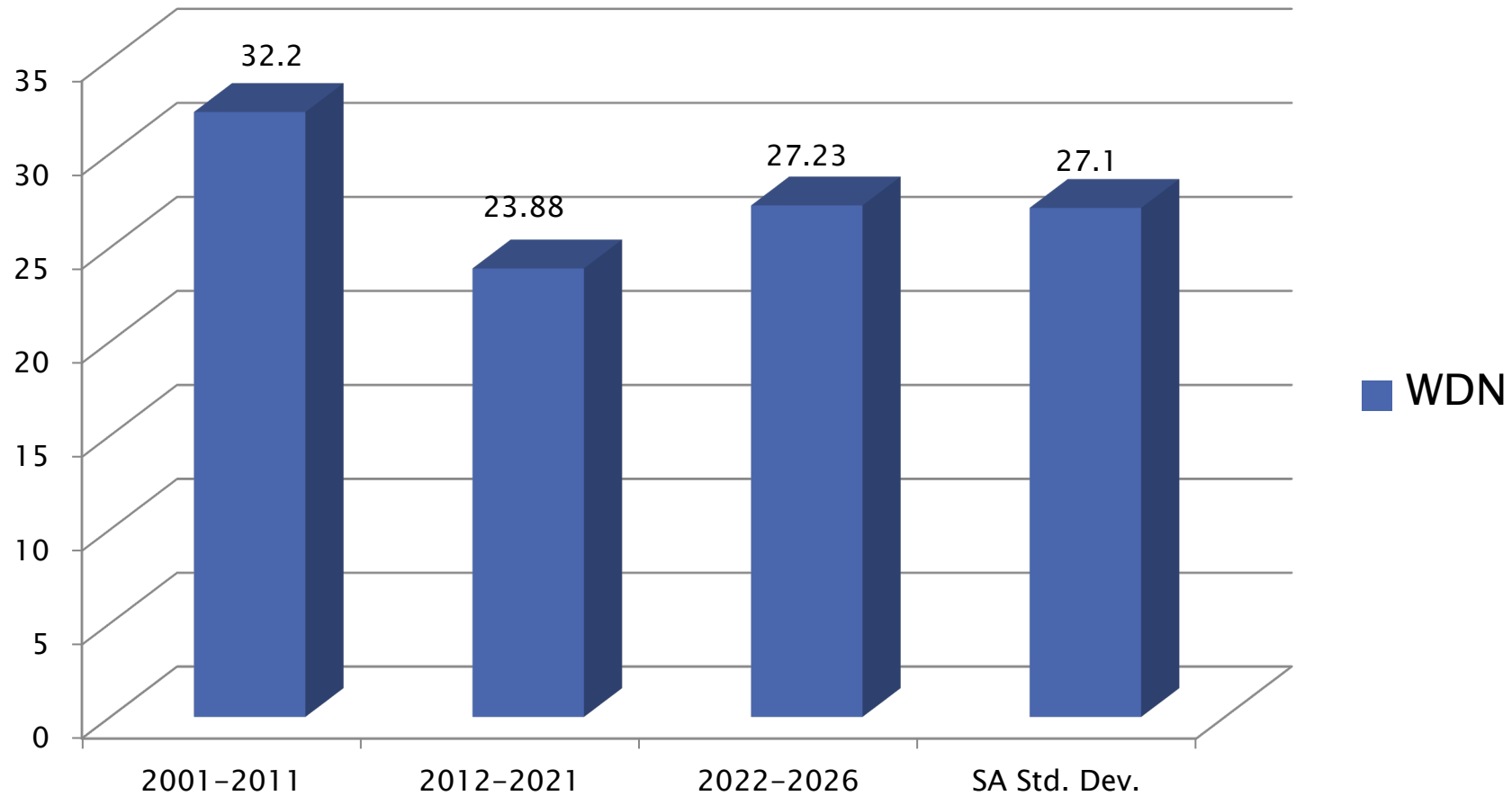
LTMS Precision Analysis



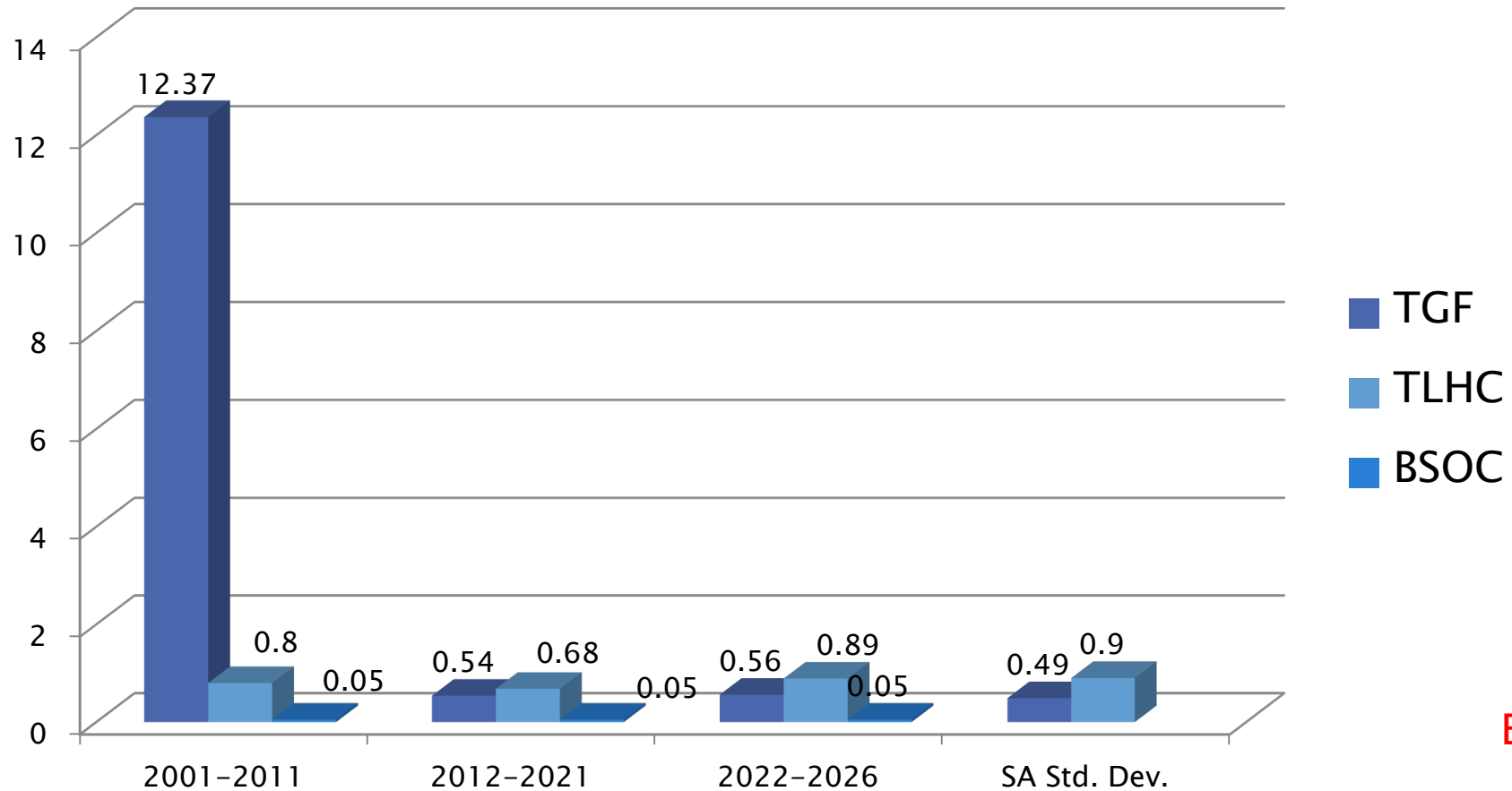
CUSUM Severity Analysis



1 N Precision Estimates



1 N Precision Estimates



BT

[Return to Table of Contents](#)

SCOTE 1P

➤➤ April 2026

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1 P Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	1
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		1

1 P Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

1P Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

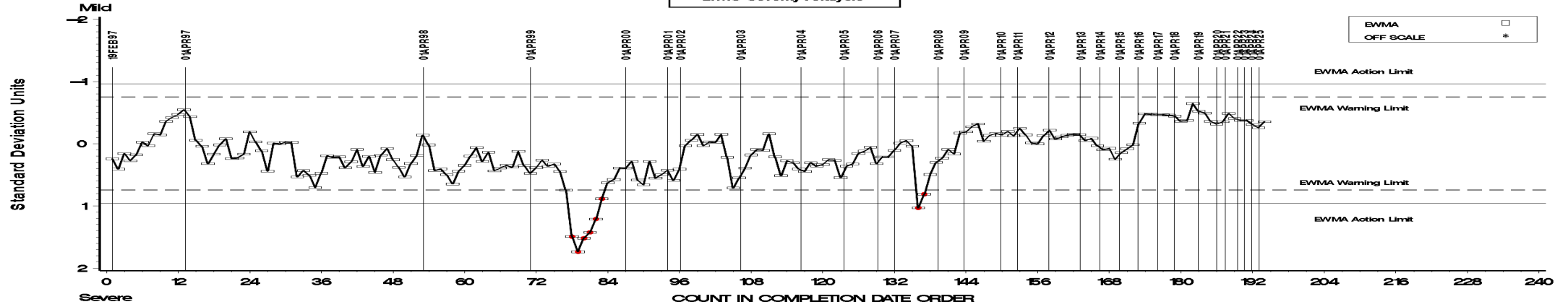
*Invalid and aborted tests

1 P Test Severity

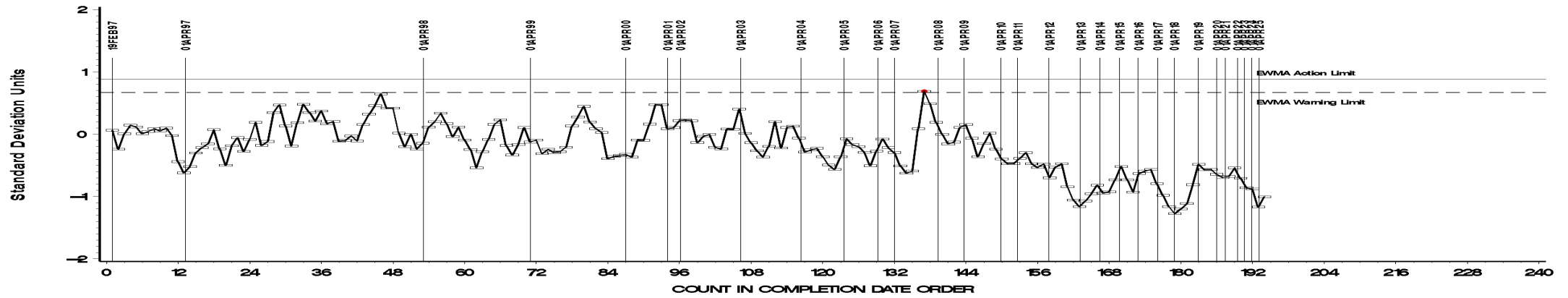
- ▶ EOTOC in severity action alarm in the severe direction.
- ▶ All other parameters in control.

TOP GROOVE CARBON

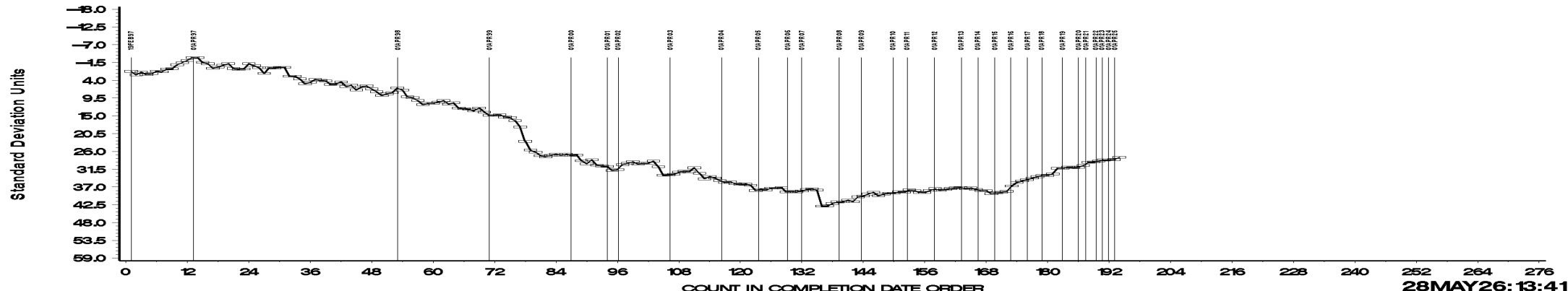
LTMS Severity Analysis



LTMS Precision Analysis



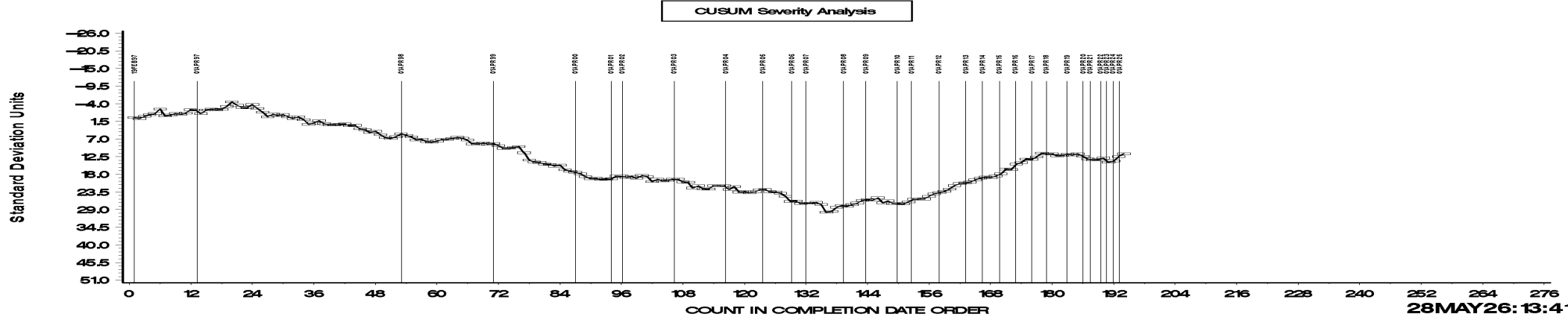
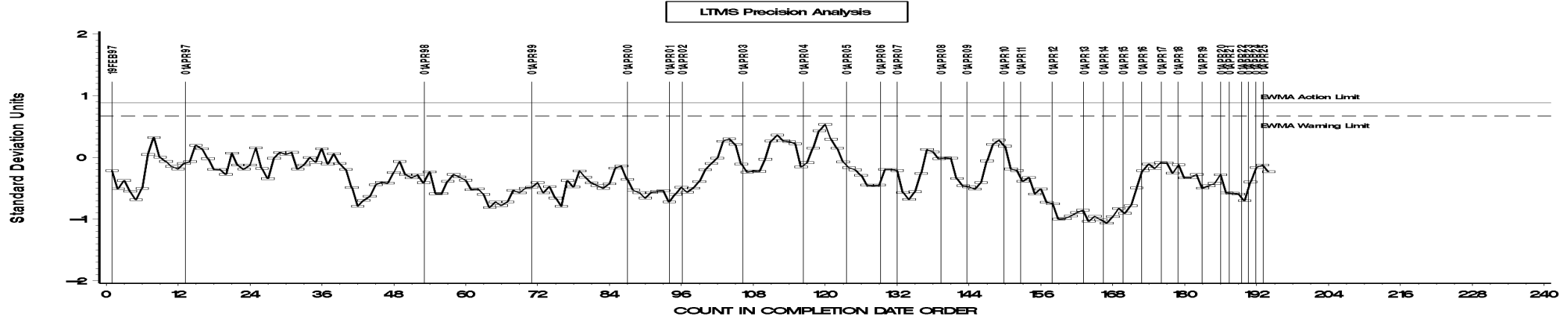
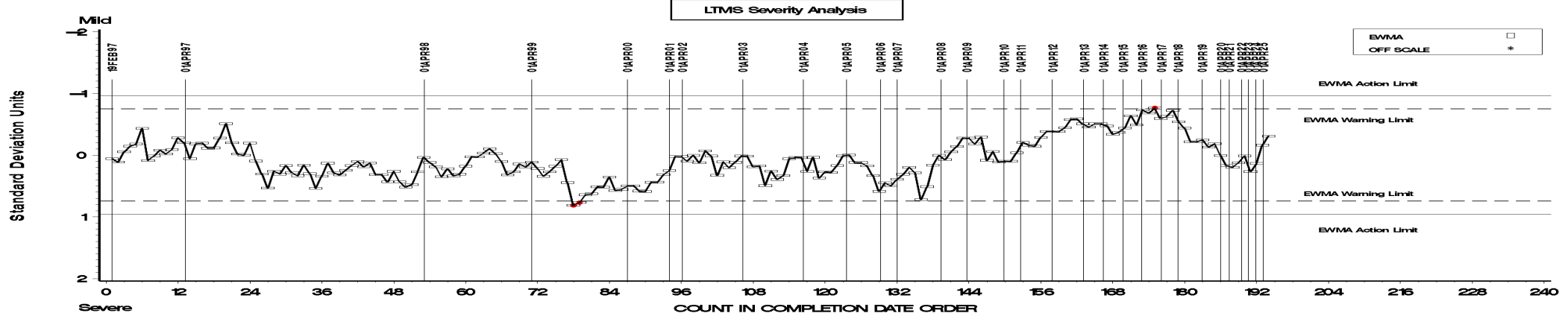
CUSUM Severity Analysis



CATERPILLAR 1P INDUSTRY OPERATIONALLY VALID DATA



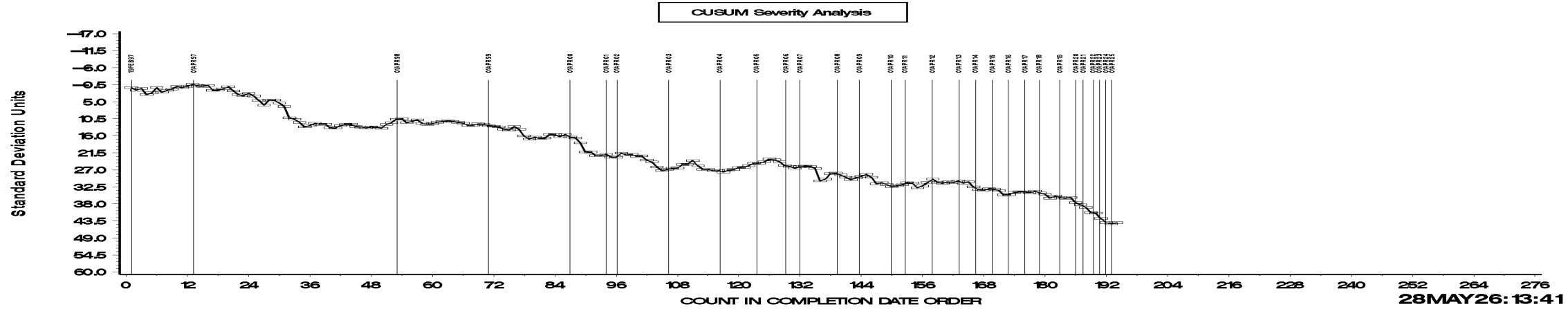
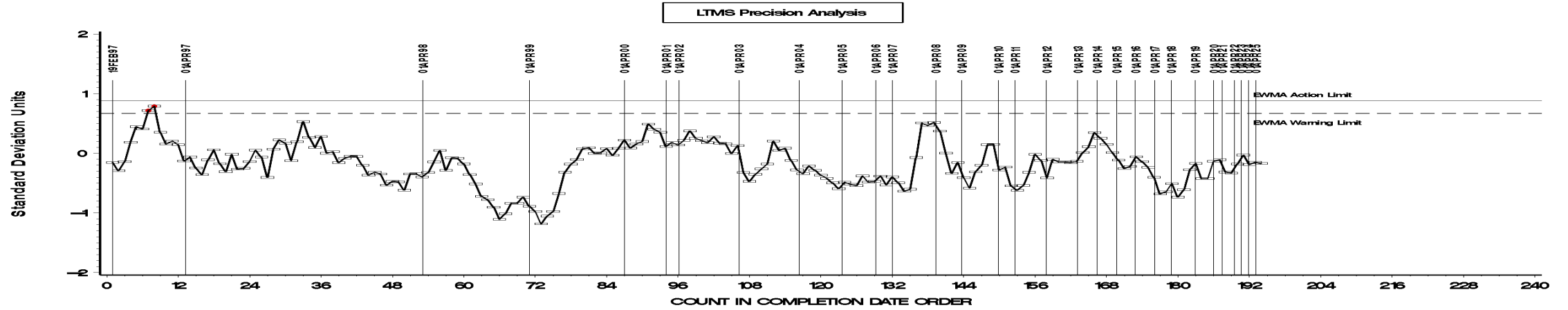
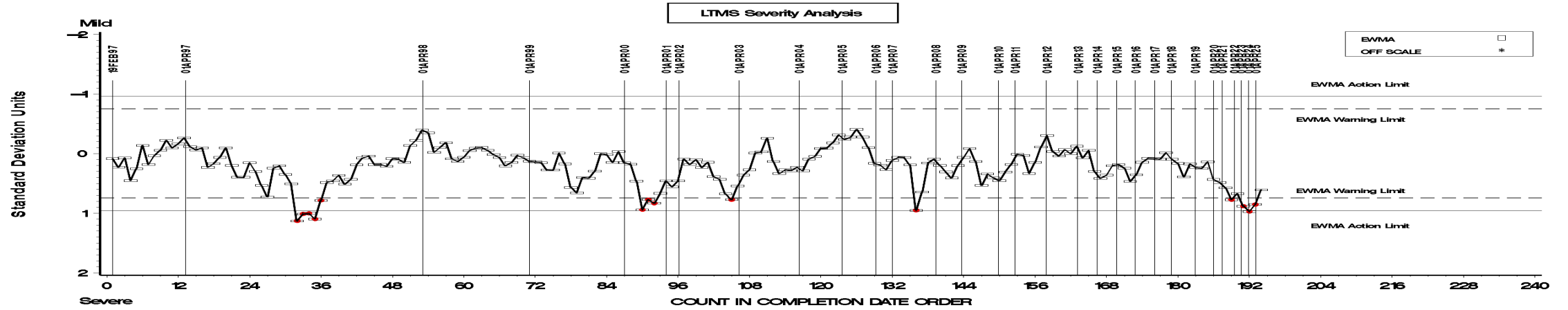
TOP LAND CARBON



CATERPILLAR 1P INDUSTRY OPERATIONALLY VALID DATA



WEIGHTED TOTAL DEMERITS

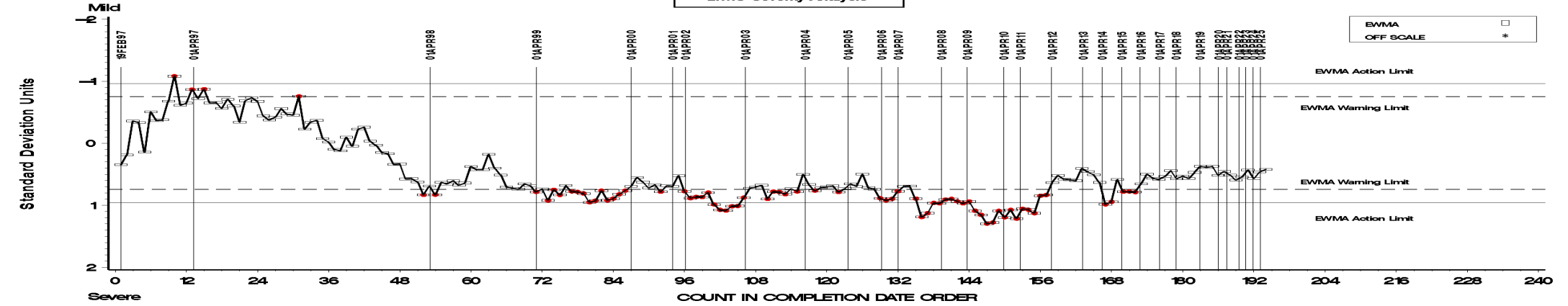


CATERPILLAR 1P INDUSTRY OPERATIONALLY VALID DATA

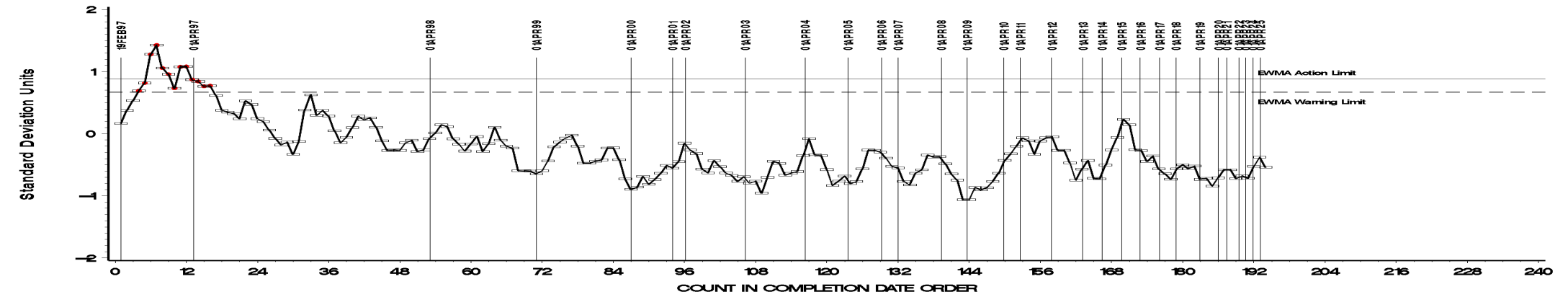


OIL CONSUMPTION

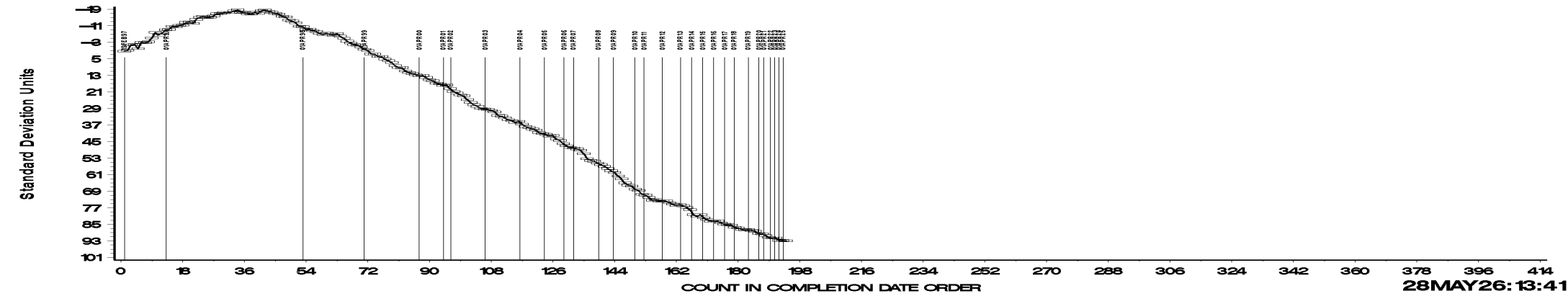
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

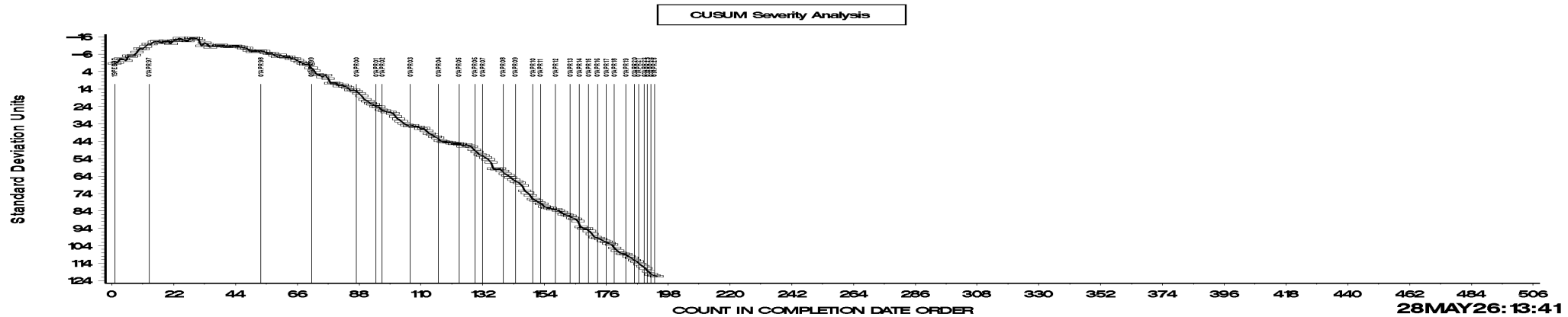
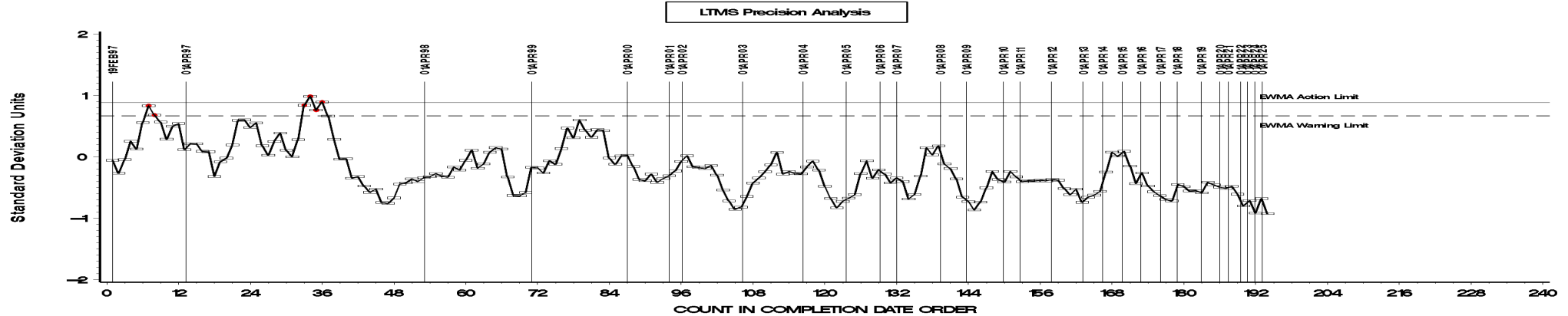
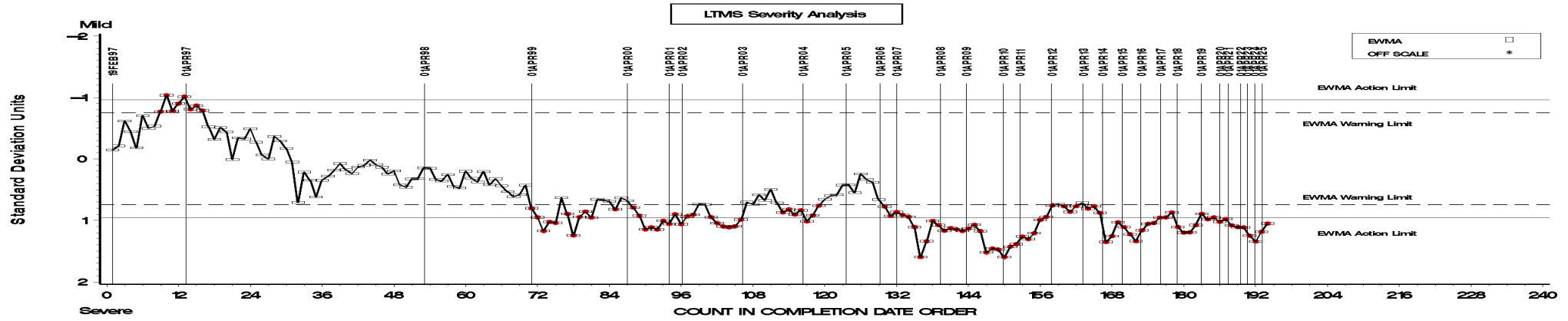


CATERPILLAR 1P INDUSTRY OPERATIONALLY VALID DATA

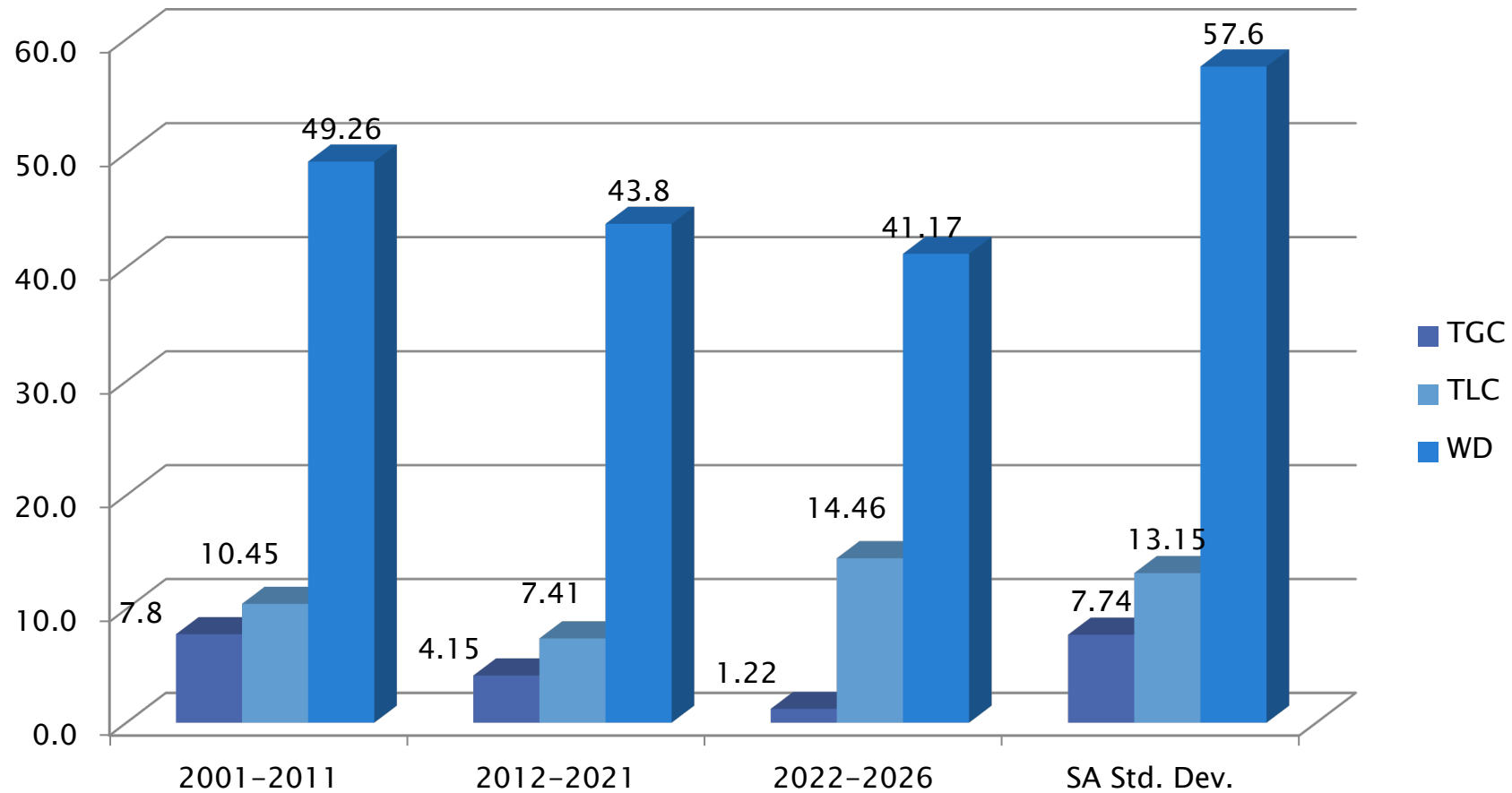


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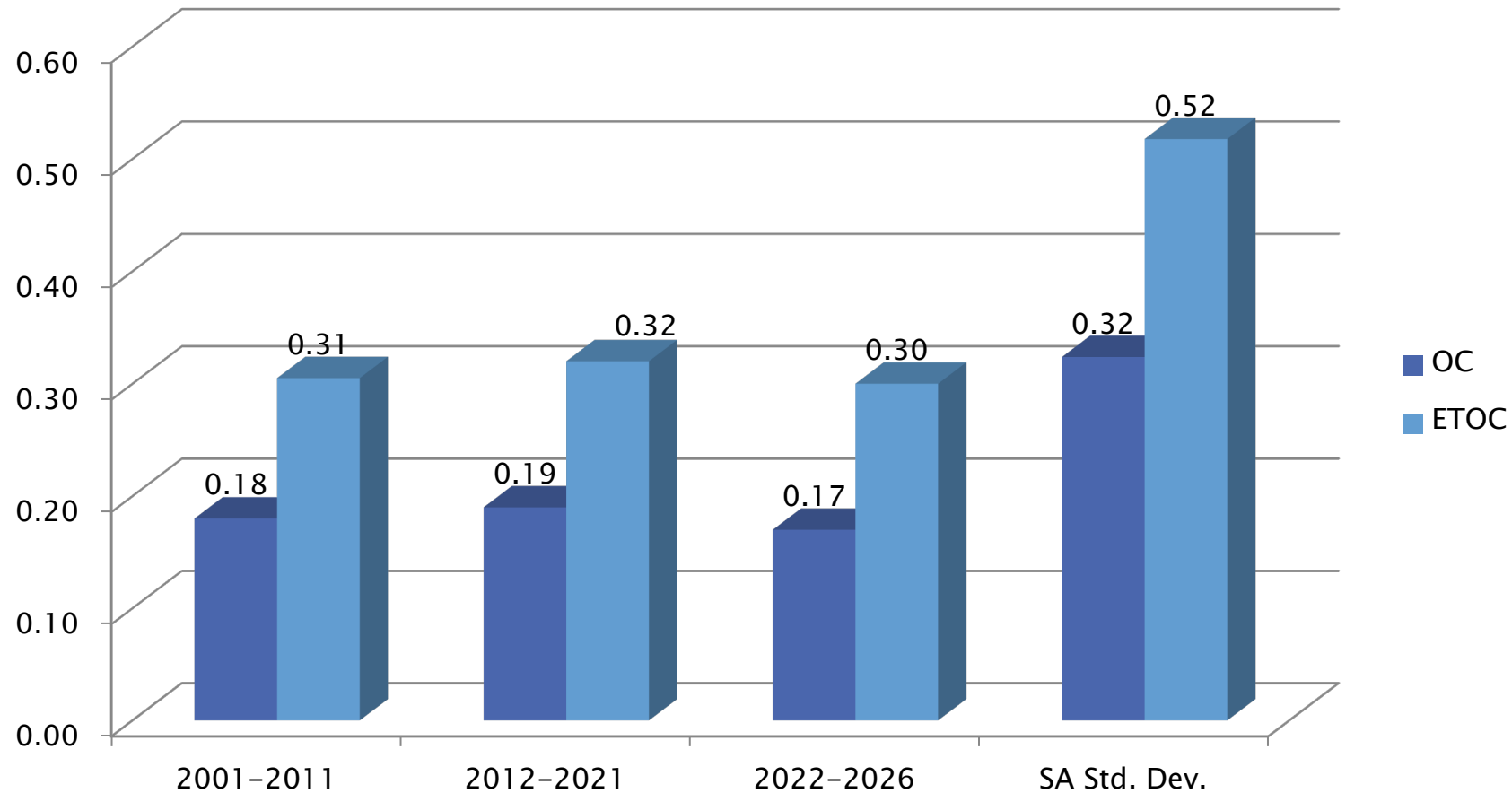
EOTOC



1 P Precision Estimates



1 P Precision Estimates



[Return to Table of Contents](#)

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SCOTE 1 R

»» April 2026

1 R Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

1 R Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

1 R Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

1 R Test Severity

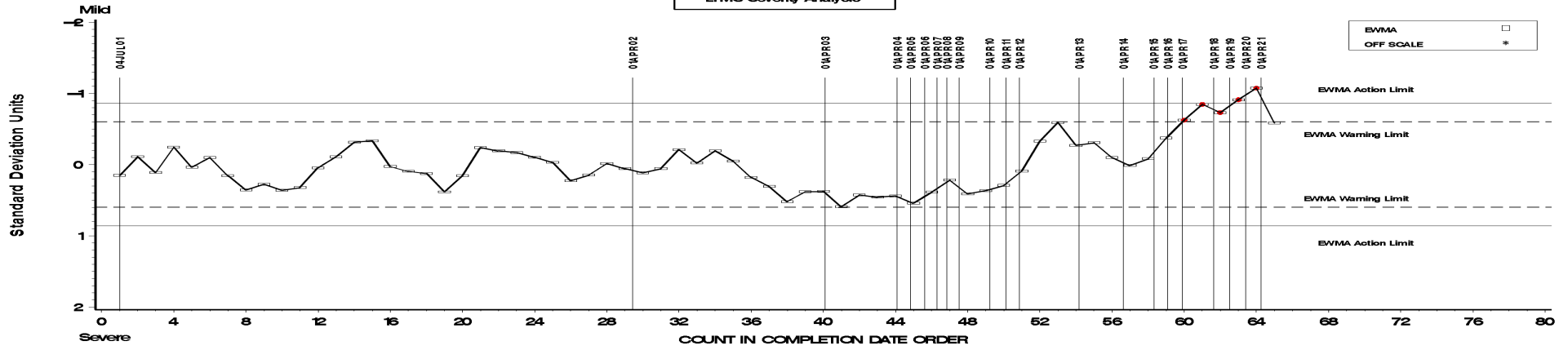
- ▶ As no chartable 1R tests were run during this reporting period, no statement on test severity can be made.

CATERPILLAR 1R INDUSTRY OPERATIONALLY VALID DATA

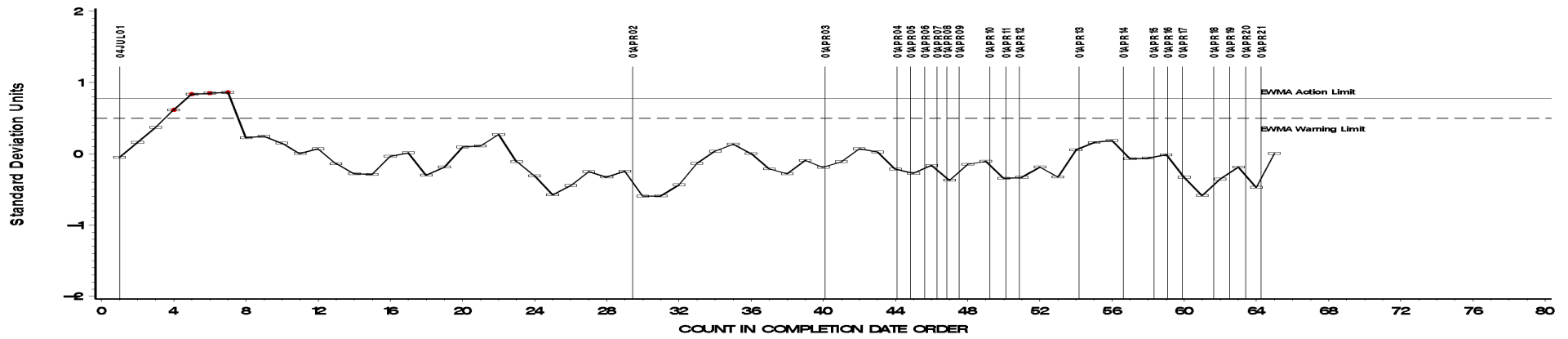


FINAL BOTOC

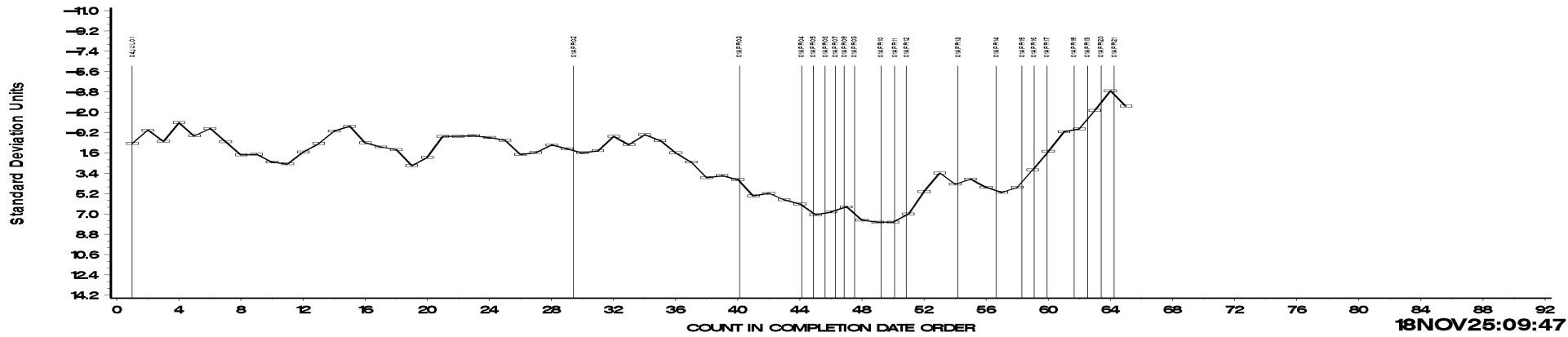
LTMS Severity Analysis



LTMS Precision Analysis



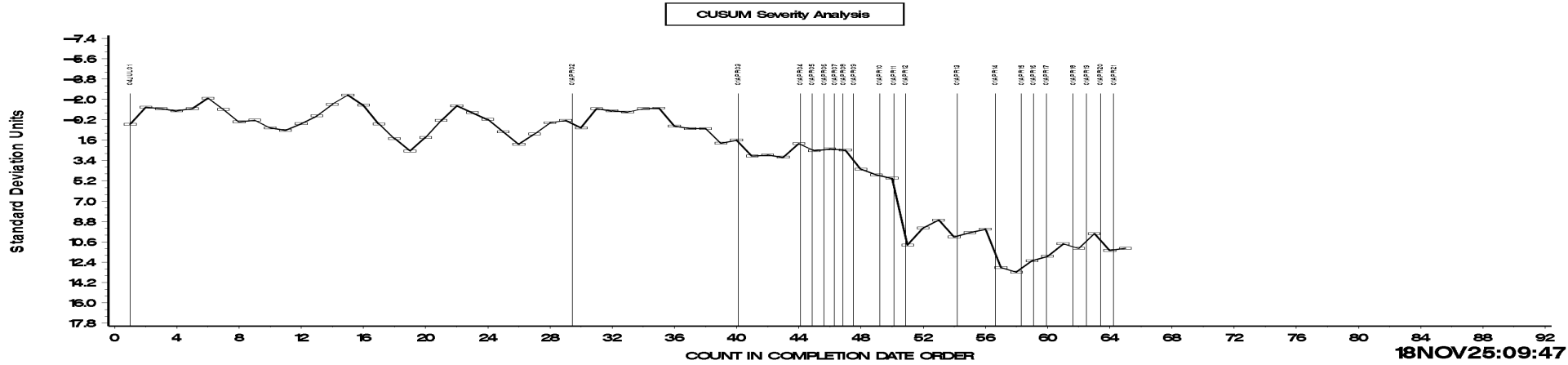
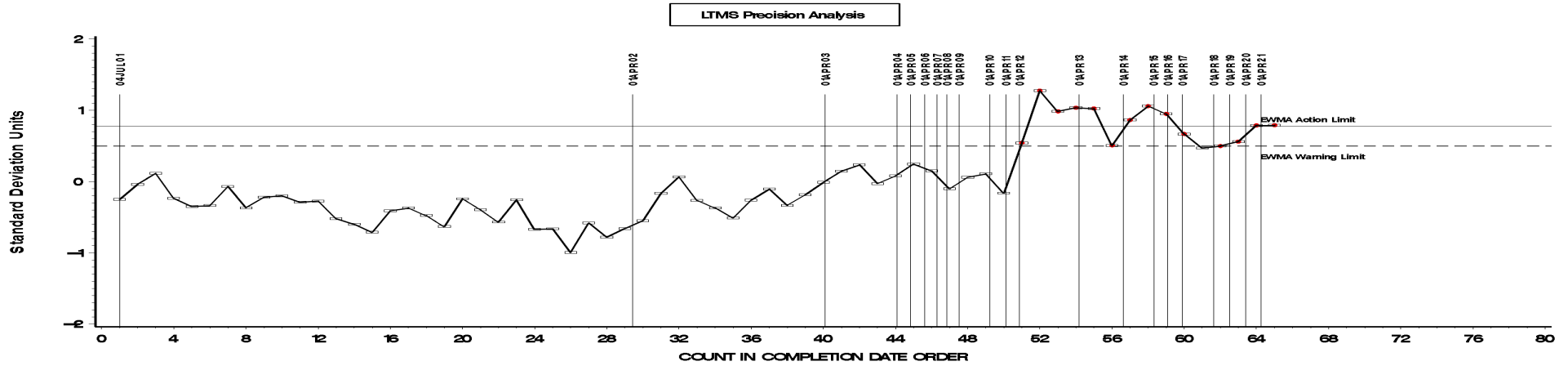
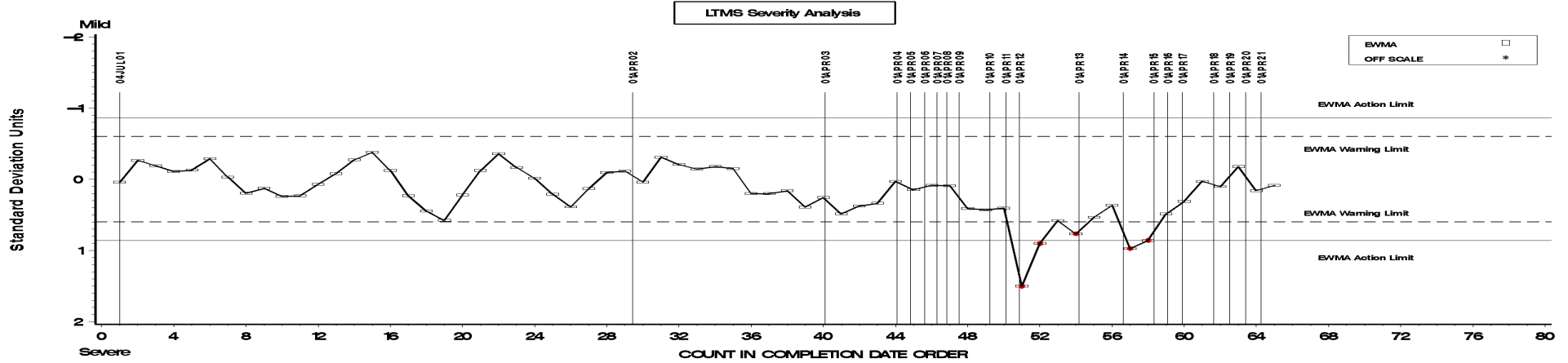
CUSUM Severity Analysis



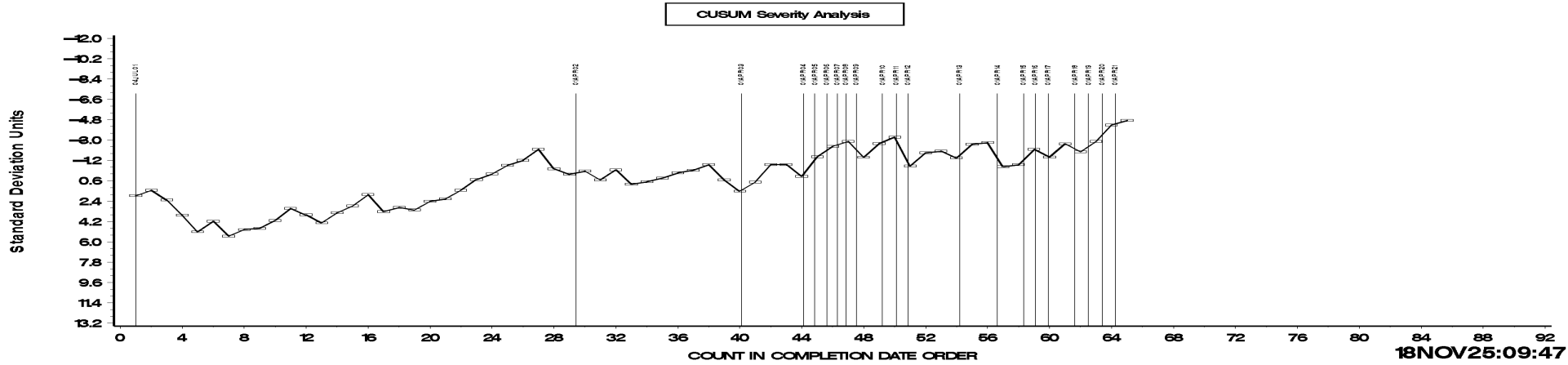
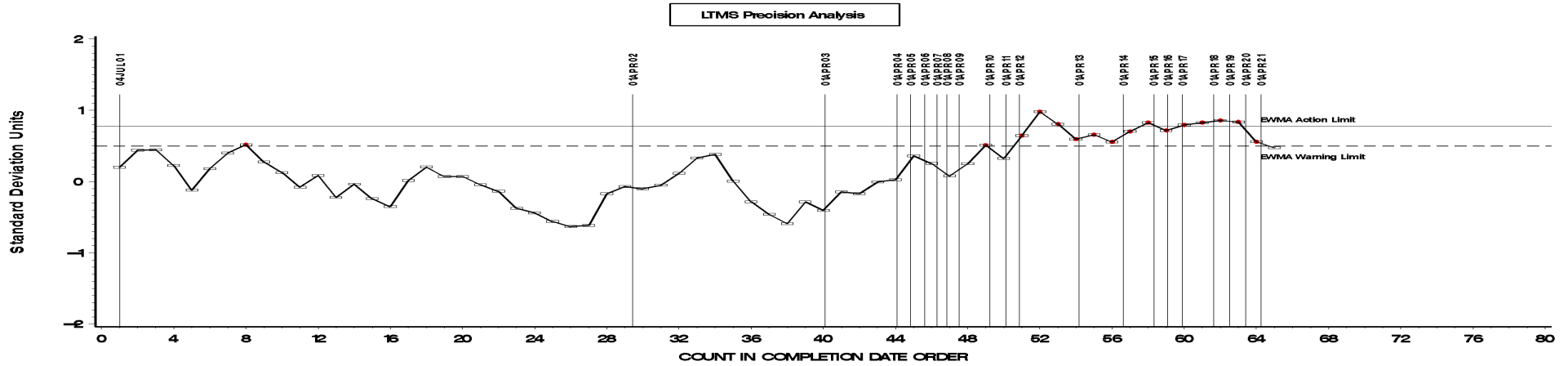
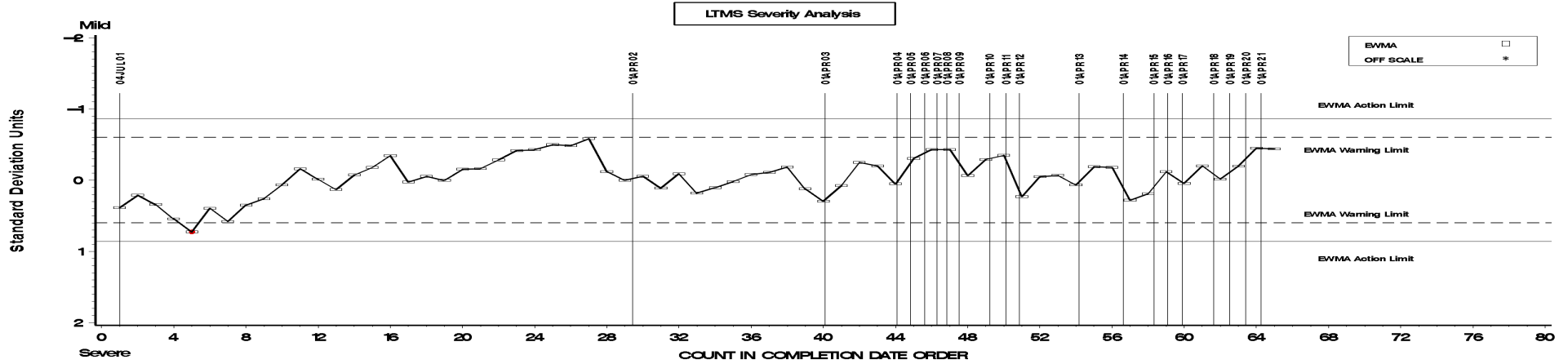
CATERPILLAR 1R INDUSTRY OPERATIONALLY VALID DATA



FINAL EOTOC (g/h)



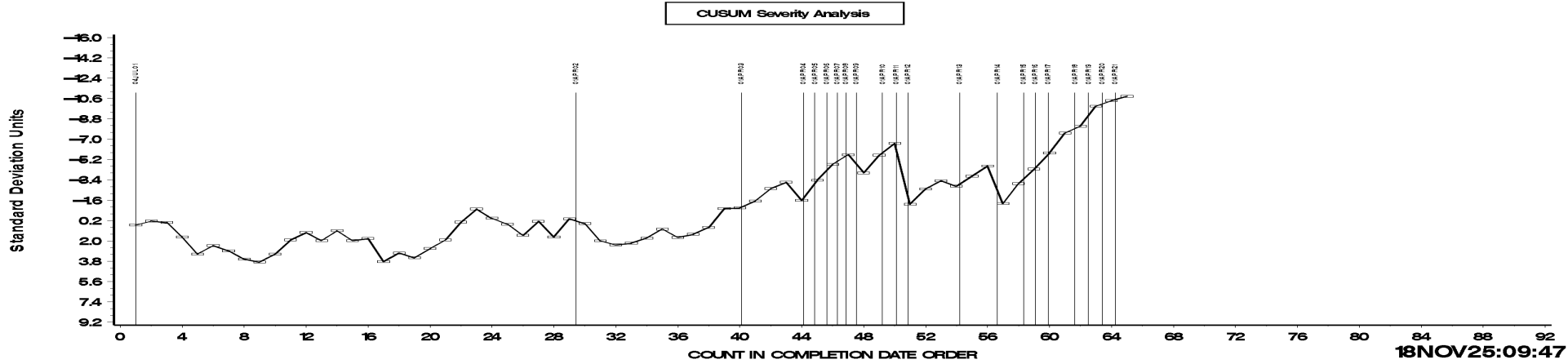
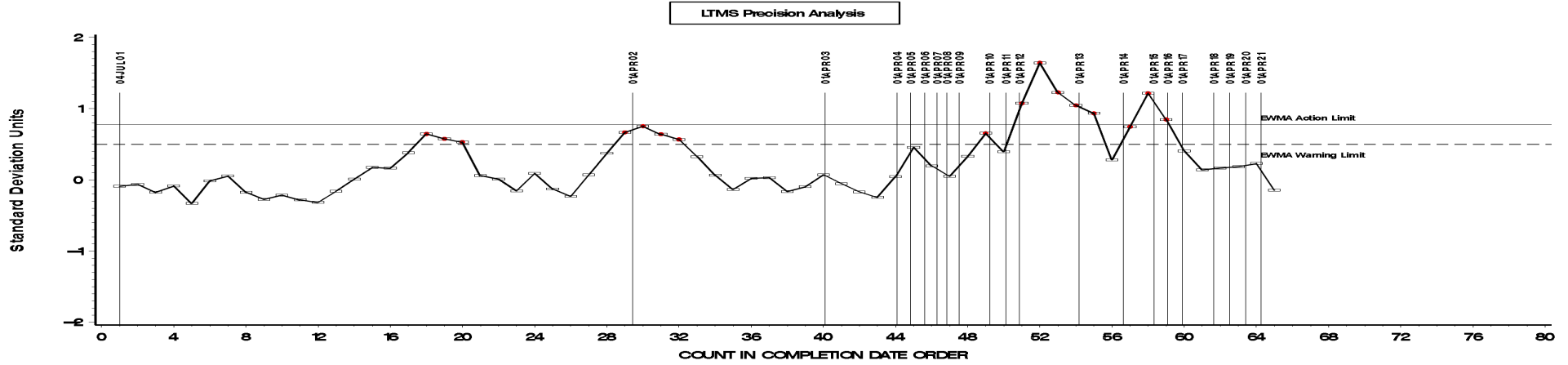
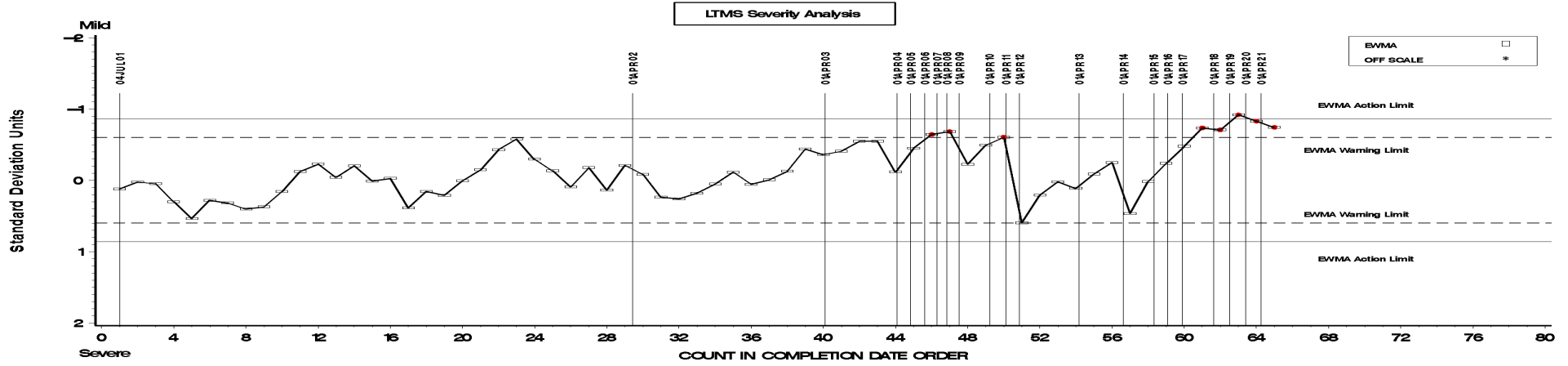
FINAL TOP GROOVE CARBON (DEMERITS)



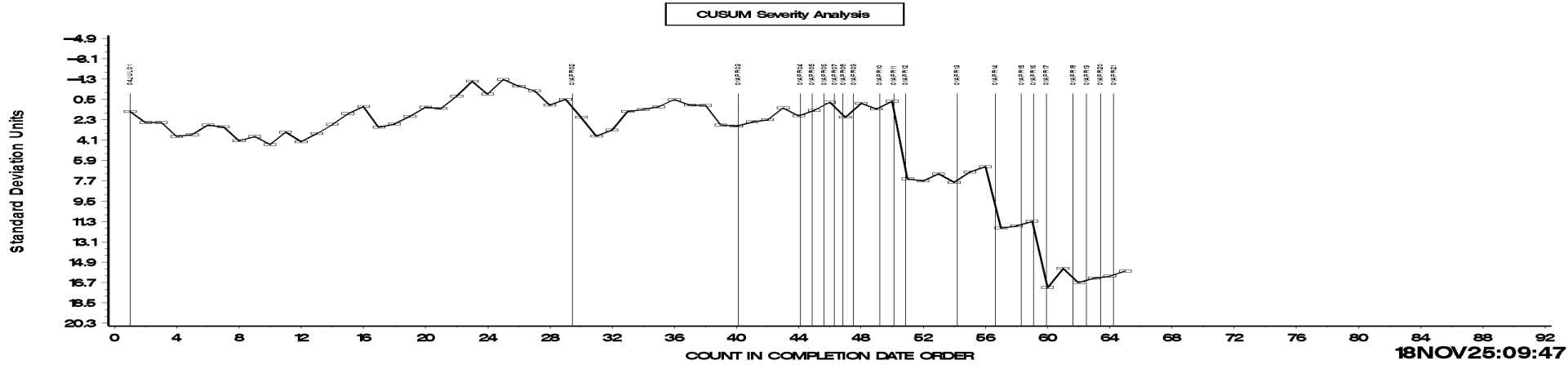
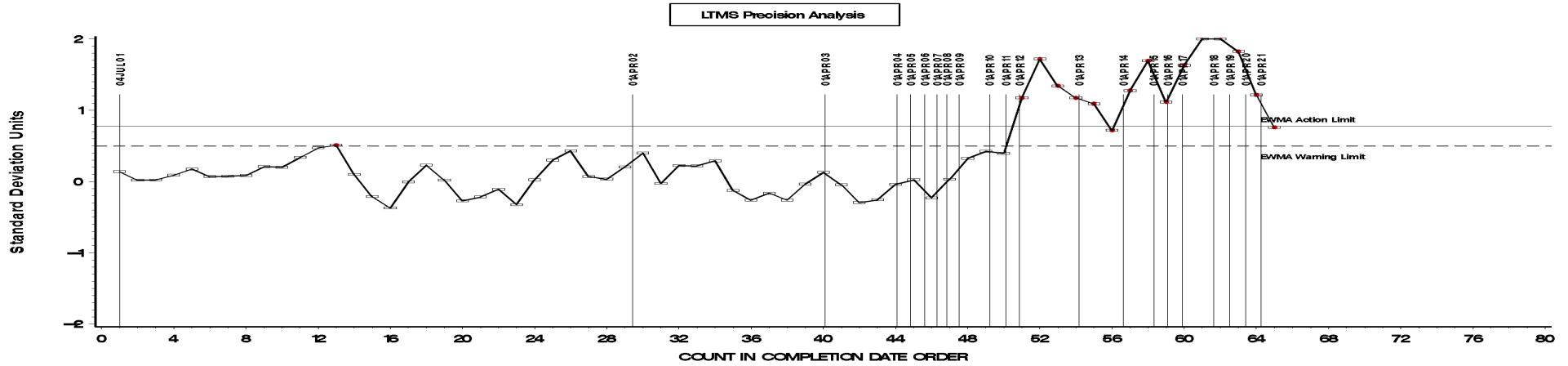
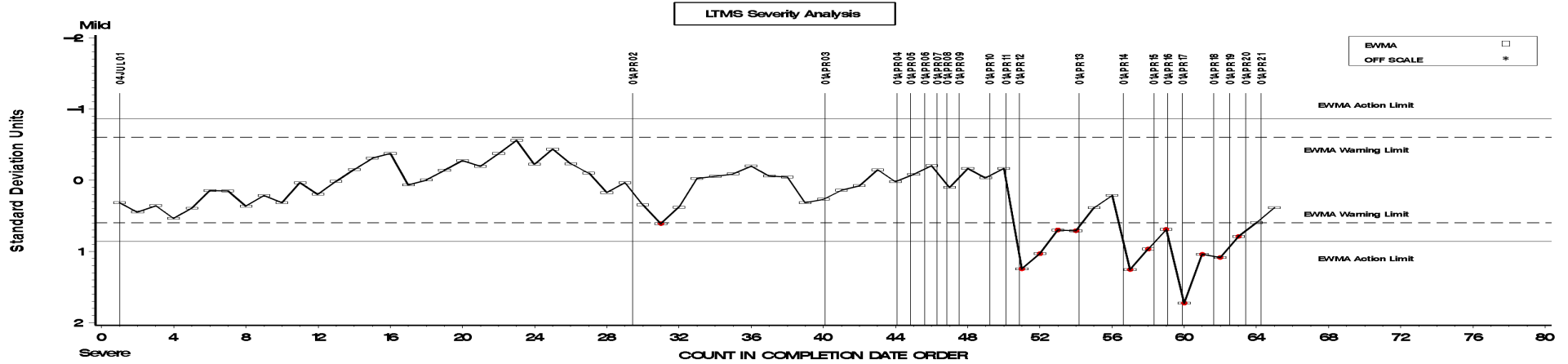
CATERPILLAR 1R INDUSTRY OPERATIONALLY VALID DATA



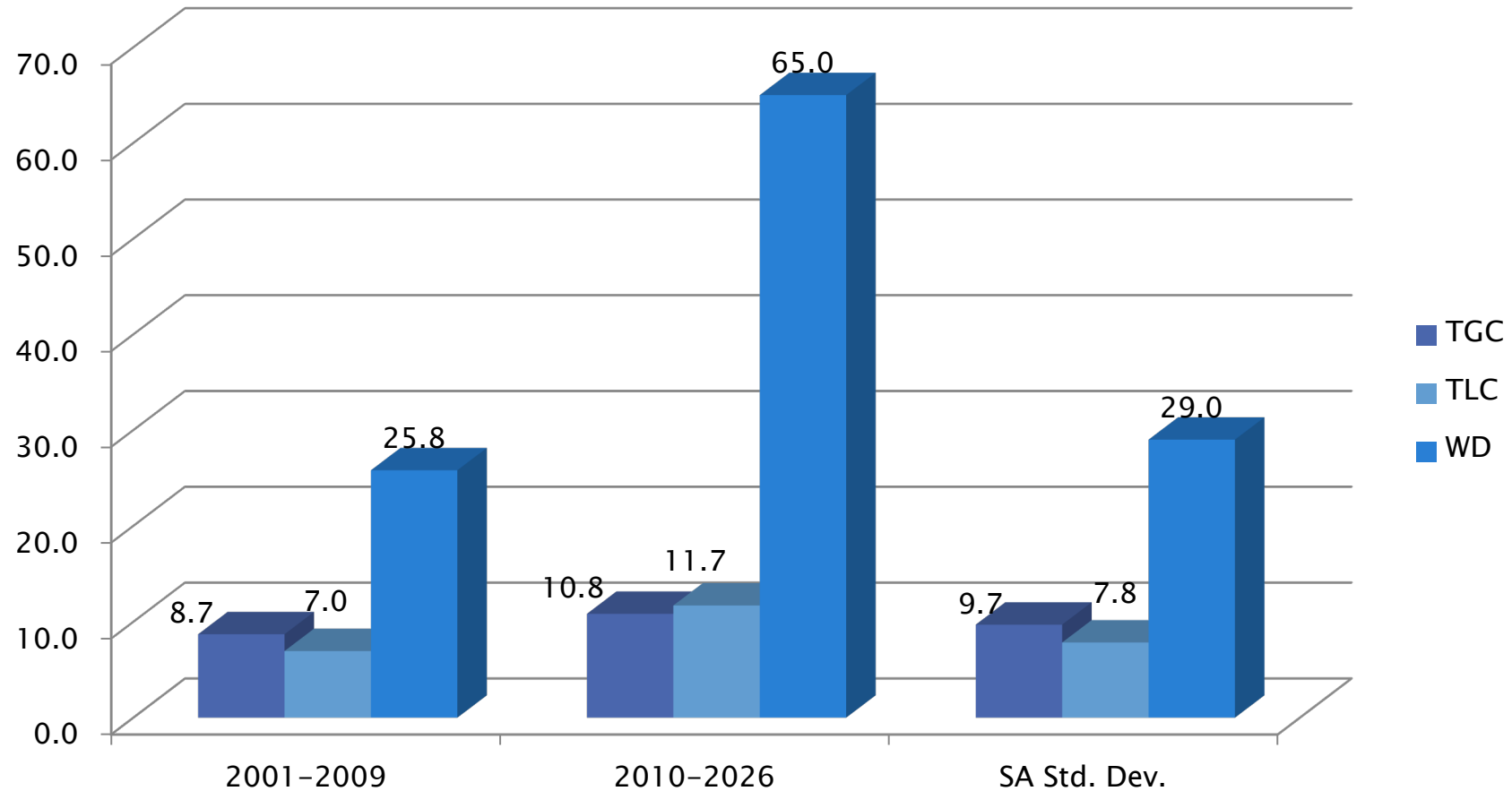
FINAL TOP LAND CARBON (DEMERITS)



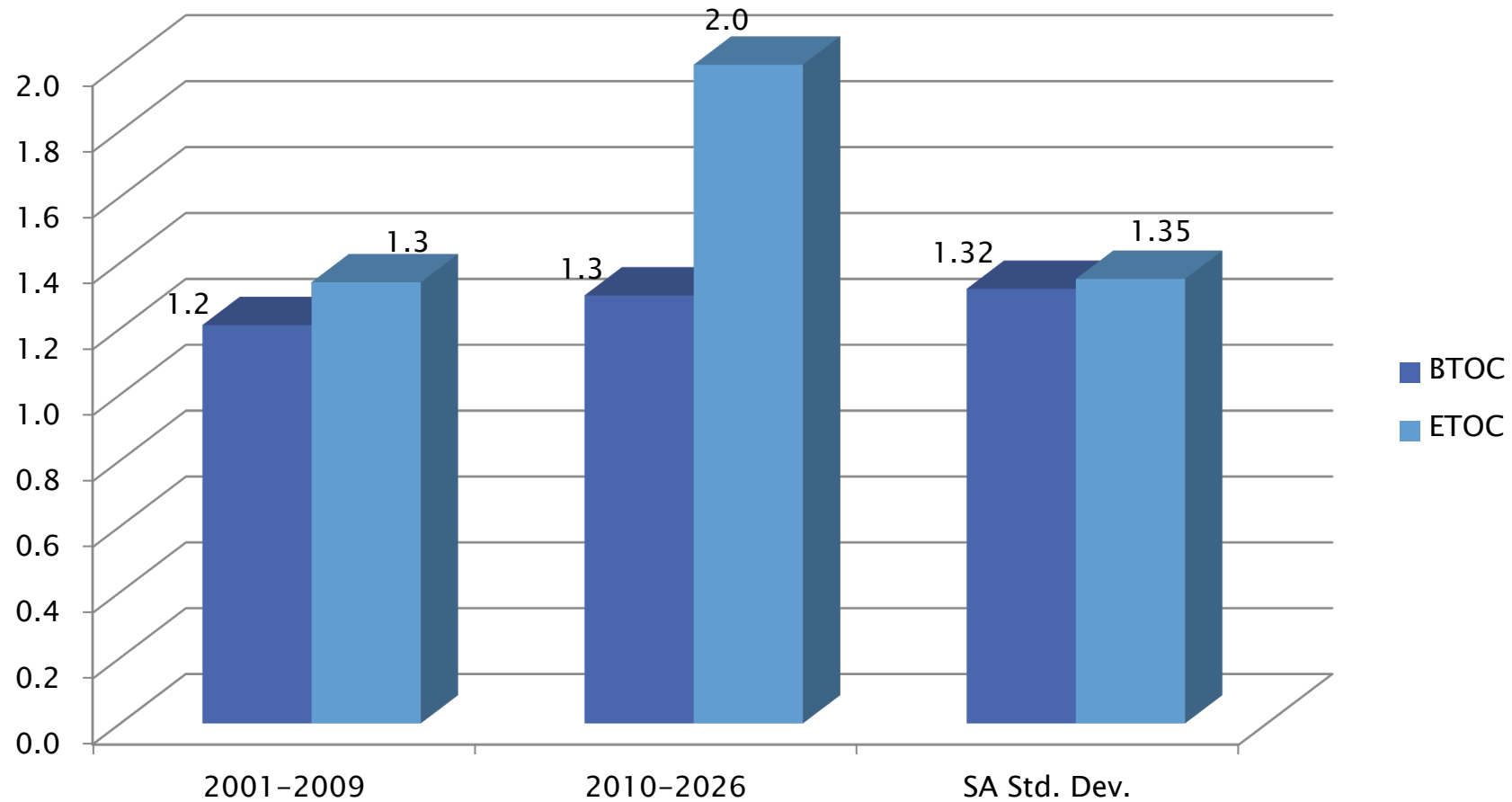
FINAL WEIGHTED TOTAL DEMERITS (DEMERITS)



1 R Precision Estimates



1 R Precision Estimates



[Return to Table of Contents](#)

CAT C13

»» April 2026

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<https://www.astmtmc.org>



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C13 Test Activity

Test Status	Validity Code	C13
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

C13 Failed Tests

Failed Parameter	Number of Tests
TGC and OC mild	0
Total	0

C13 Lost Tests*

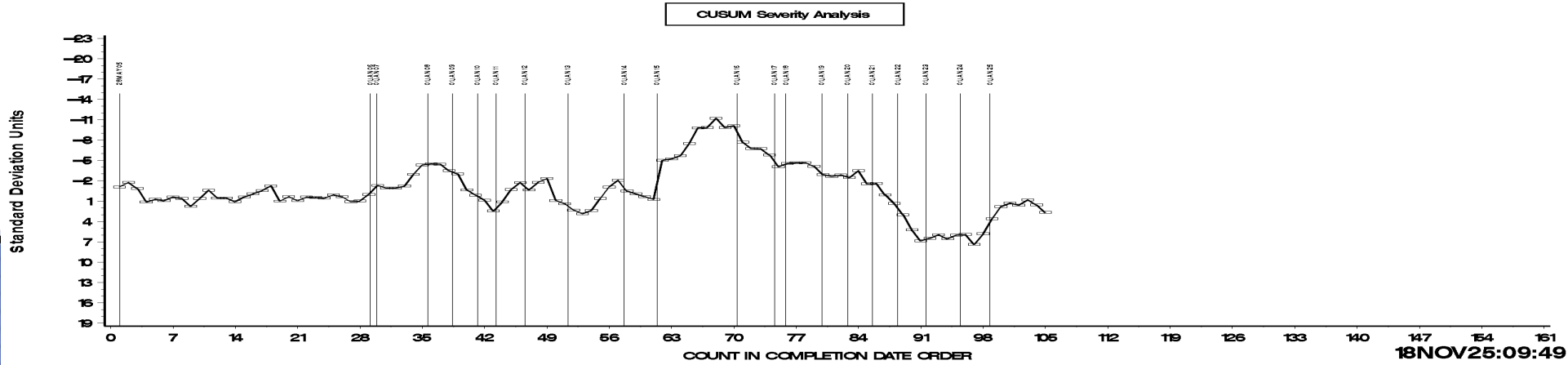
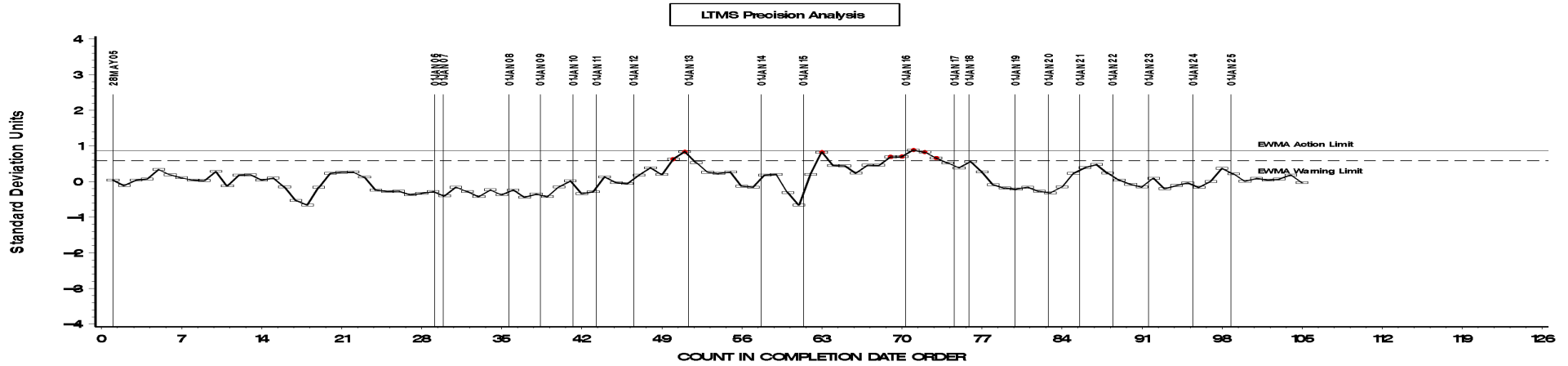
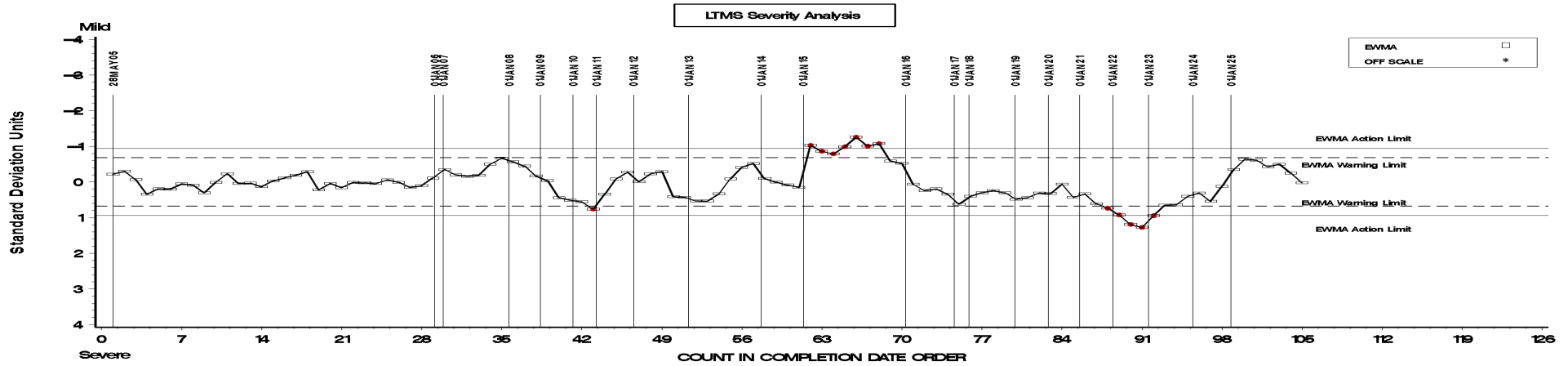
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

C13 Test Severity

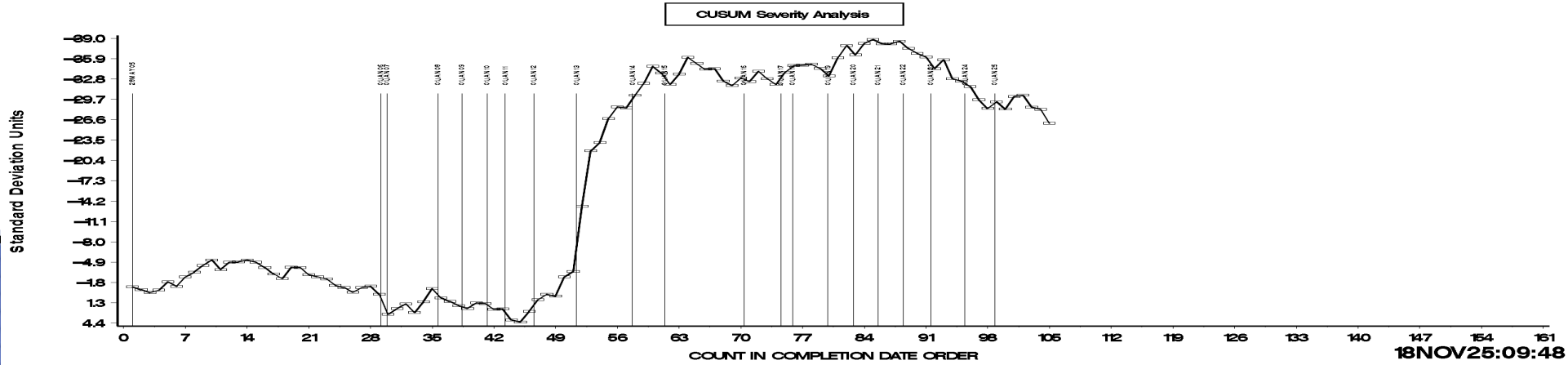
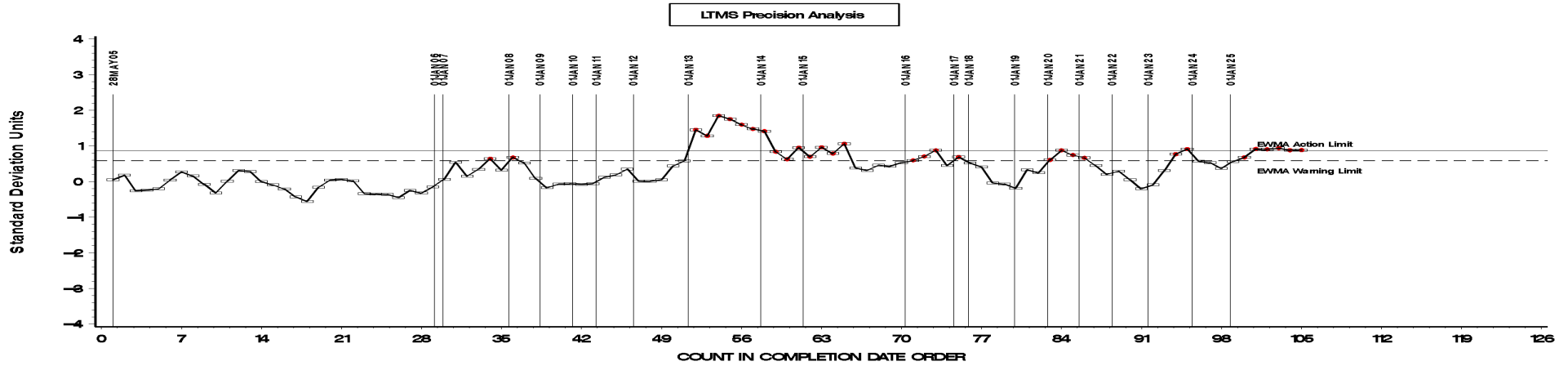
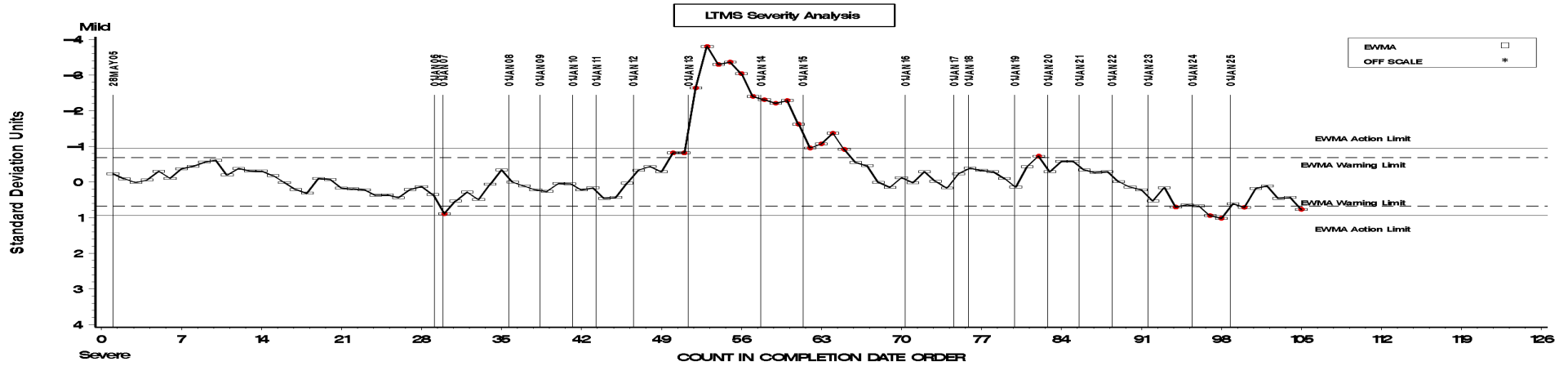
- ▶ As no chartable C13 tests were run during this reporting period, no statement on test severity can be made.

OIL CONS. DELTA — FINAL RESULT

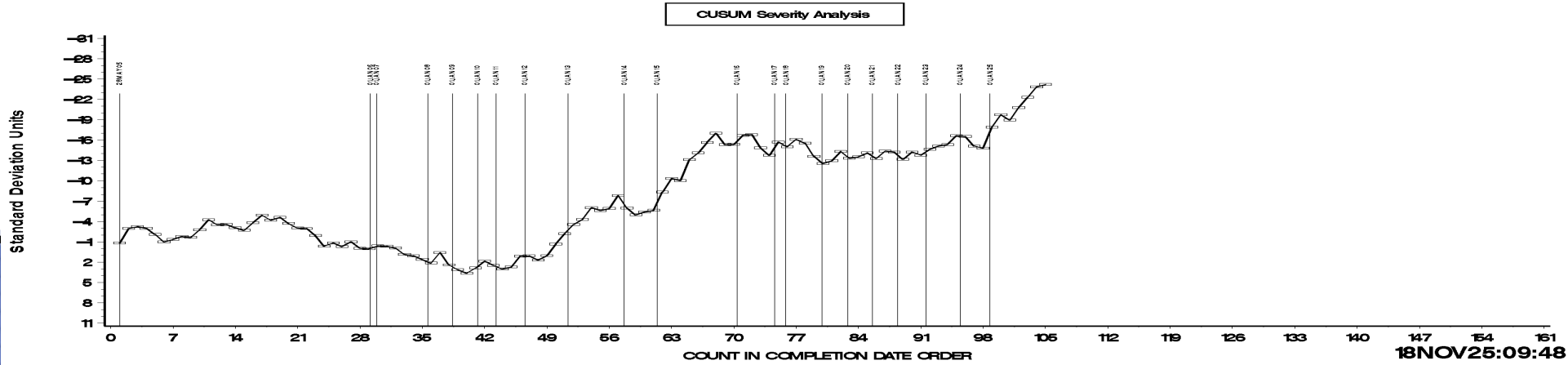
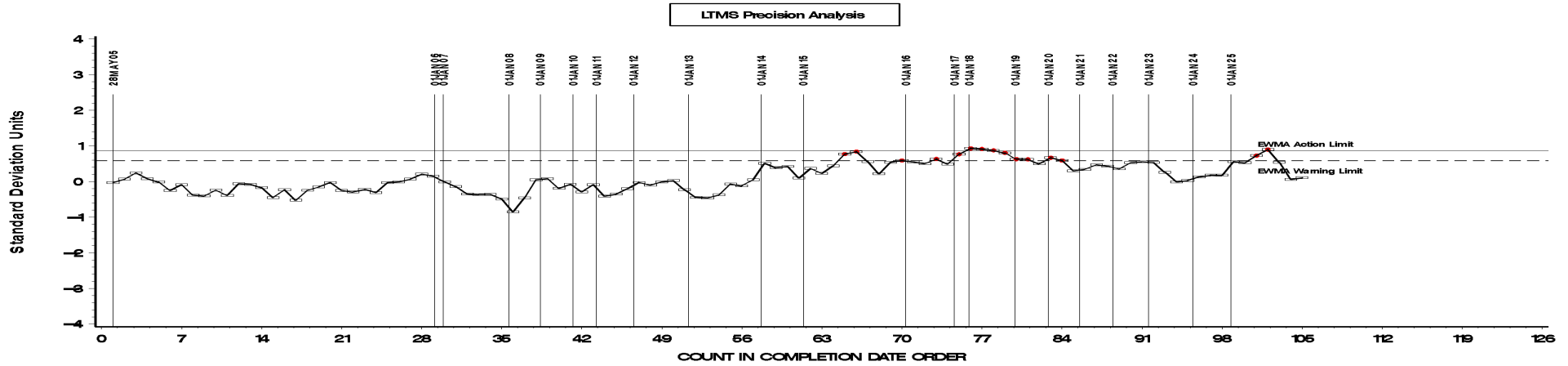
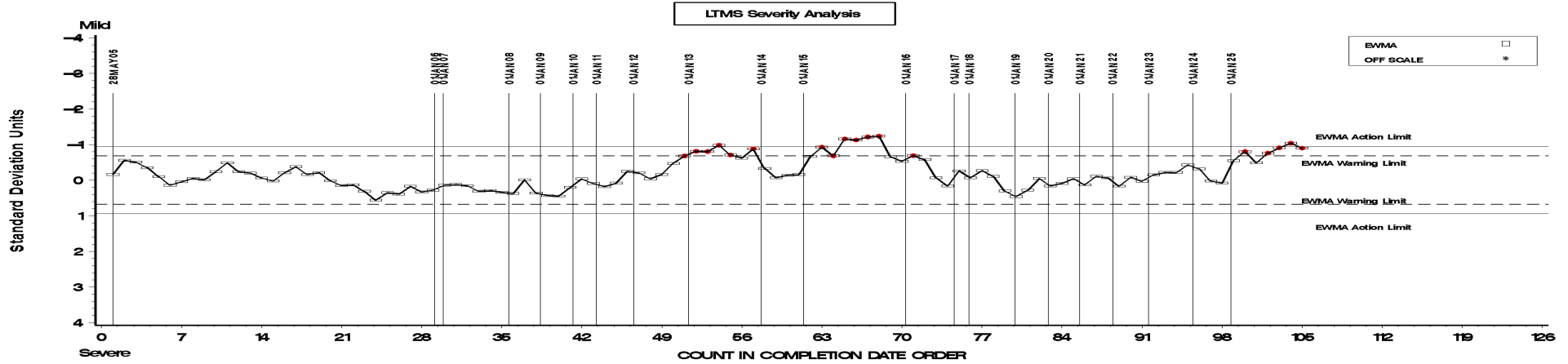


C13 INDUSTRY OPERATIONALLY VALID DATA

2ND RING TOP CARBON AVG. — FINAL RESULT

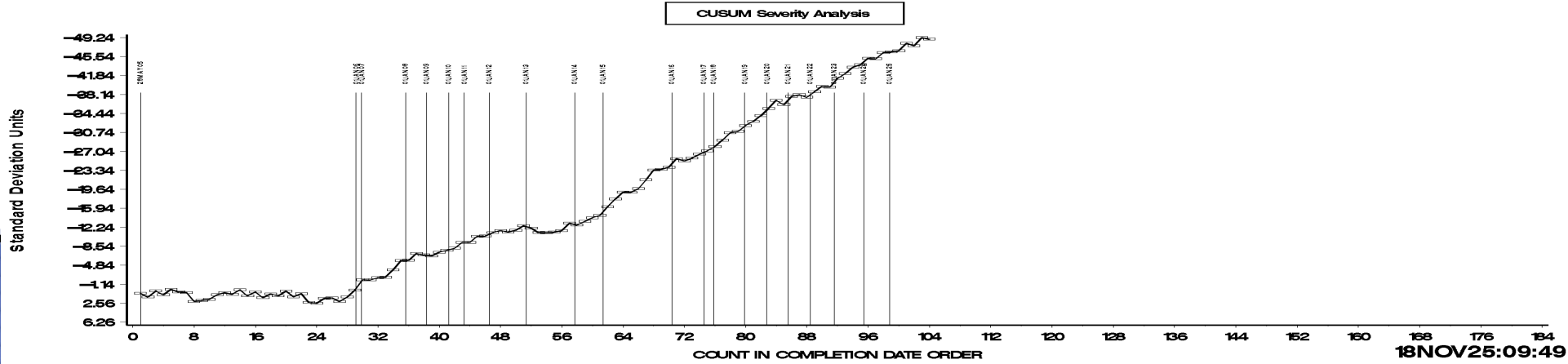
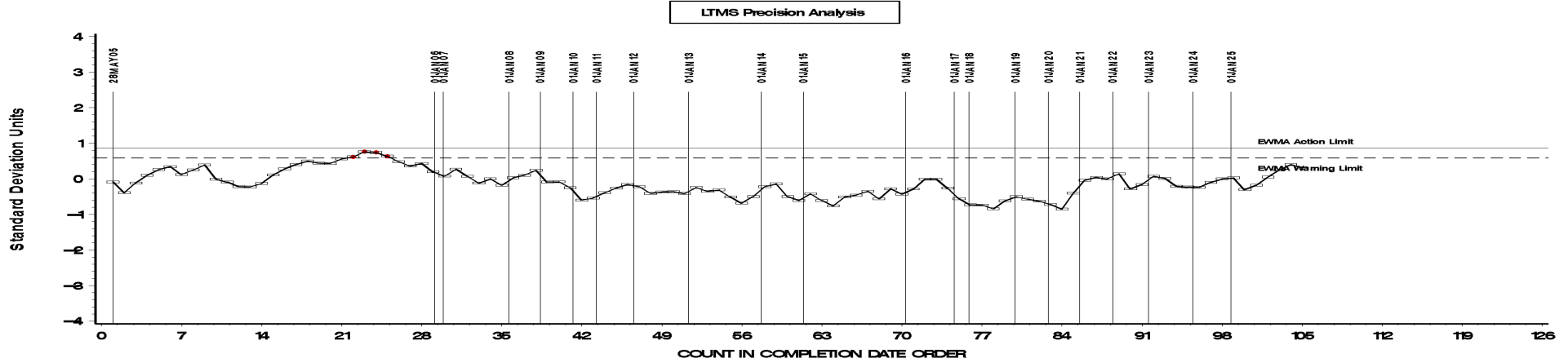
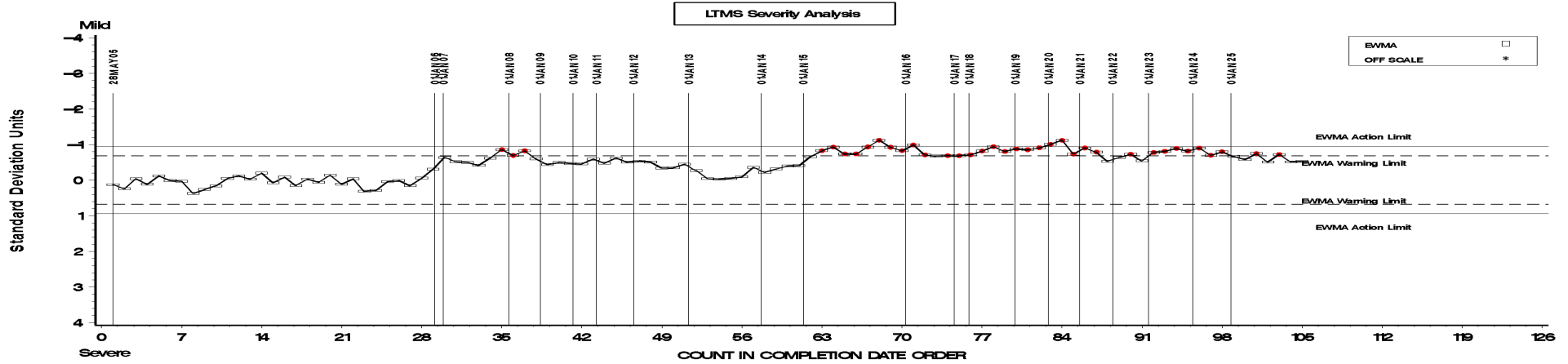


TOP GROOVE CARBON AVG — FINAL RESULT

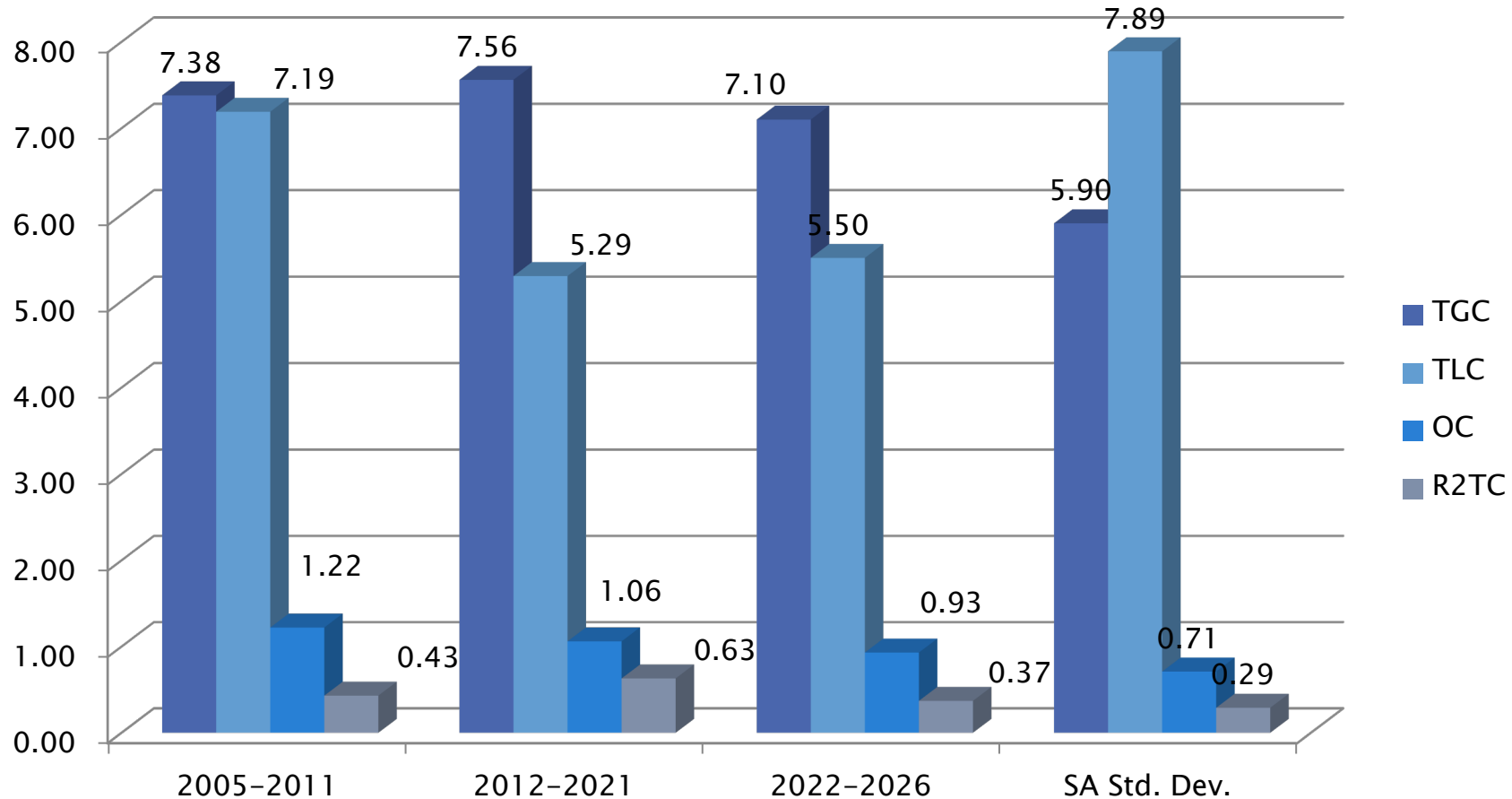


C13 INDUSTRY OPERATIONALLY VALID DATA

TOP LAND CARBON AVG. — FINAL RESULT



C13 Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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C13 Oil Aeration (COAT)

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

COAT Test Activity

Test Status	Validity Code	COAT
Acceptable Calibration Test	AC	2
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Informational	NN	0
Total		2

COAT Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

COAT Lost Tests*

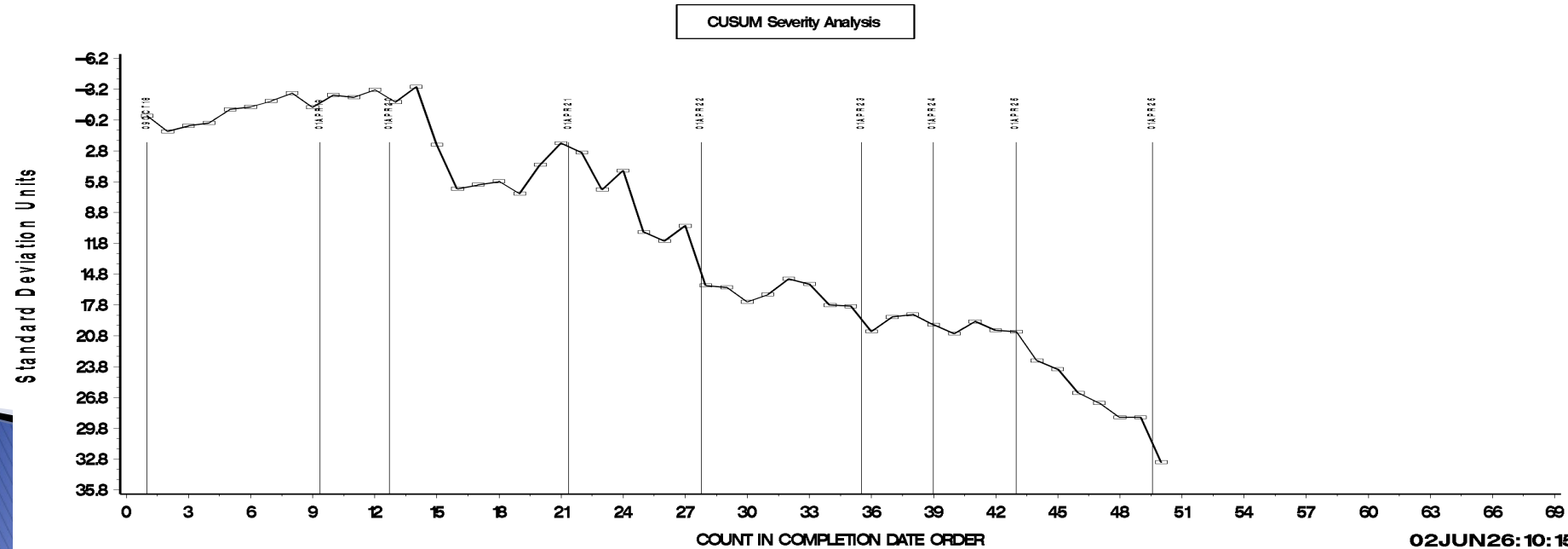
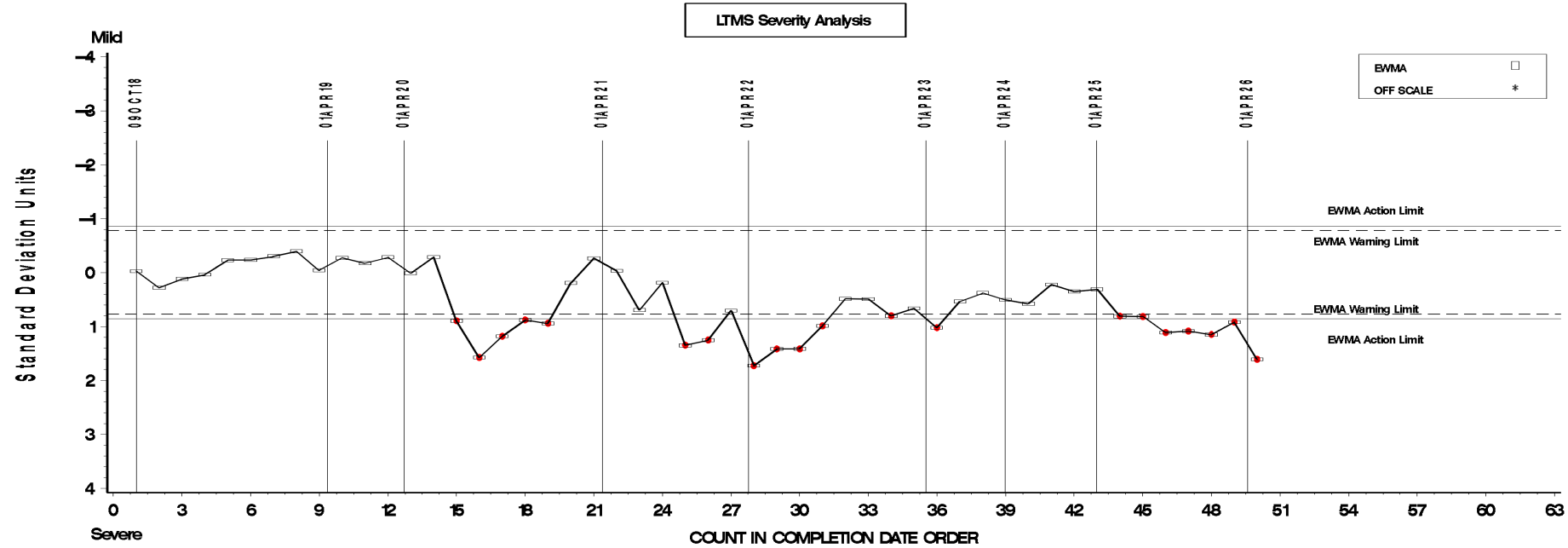
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

COAT Test Severity

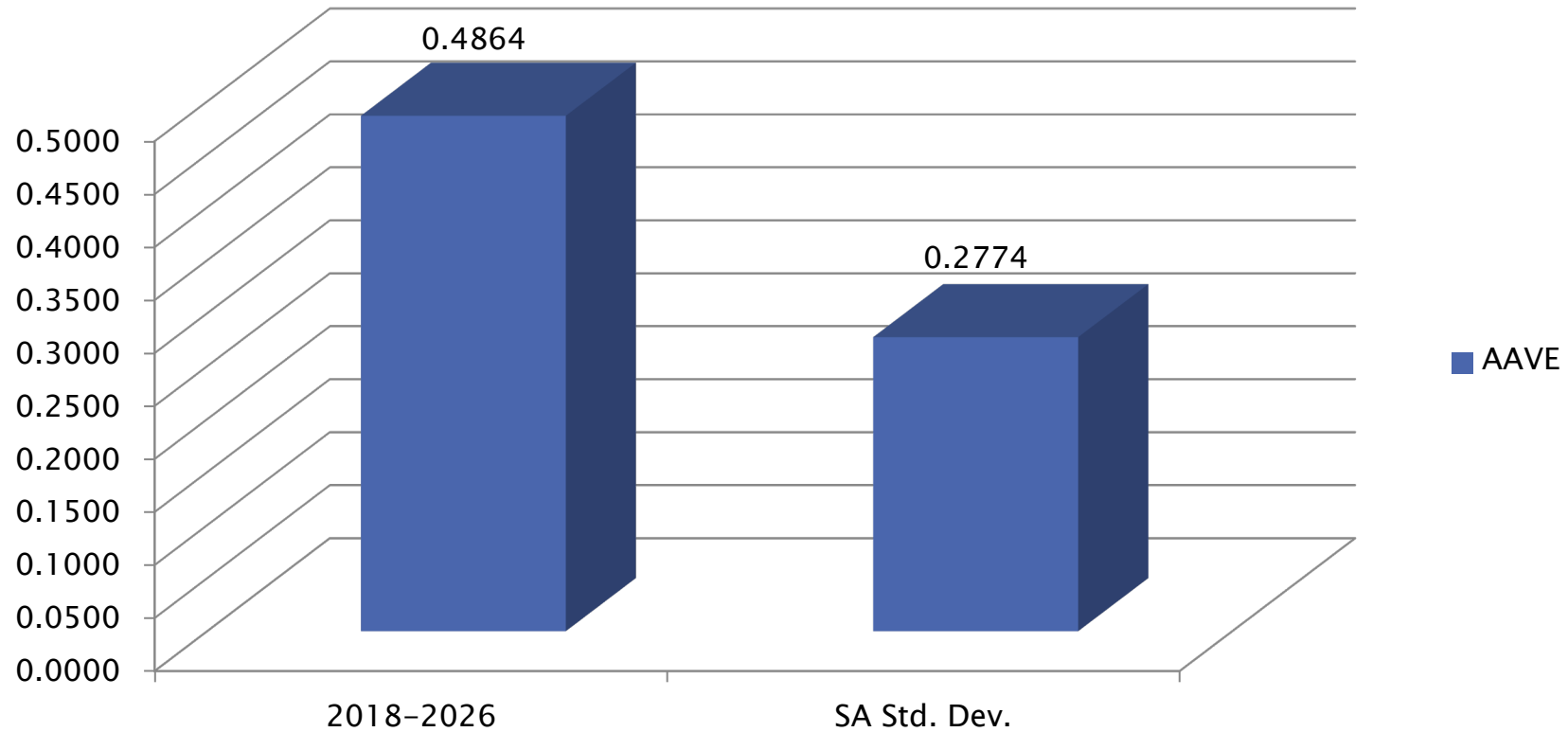
- ▶ AAVE in Severity Level 2 Alarm in the severe direction.

CORRECTED AVERAGE OIL AERATION OVER TEST HOURS 40 —50



COAT Precision Estimate

AAVE



[Return to Table of Contents](#)

Test Monitoring Center
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Daimler DD13 Scuffing Test

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

DD13 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	2
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		2

DD13 Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

DD13 Lost Tests*

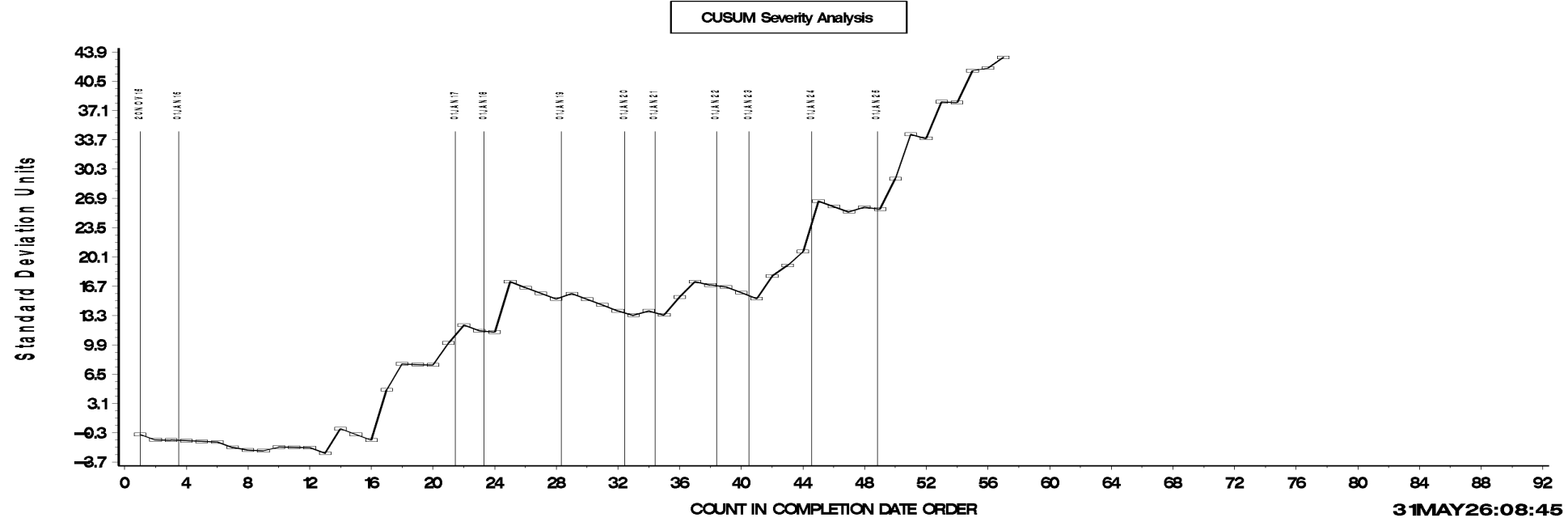
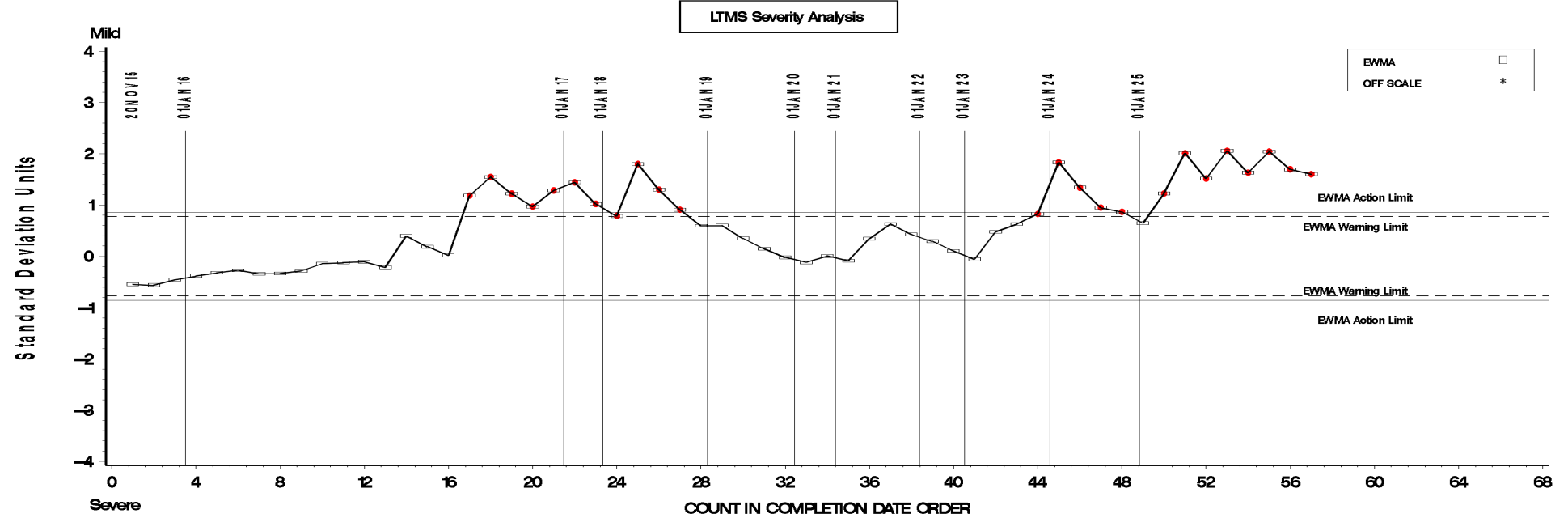
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

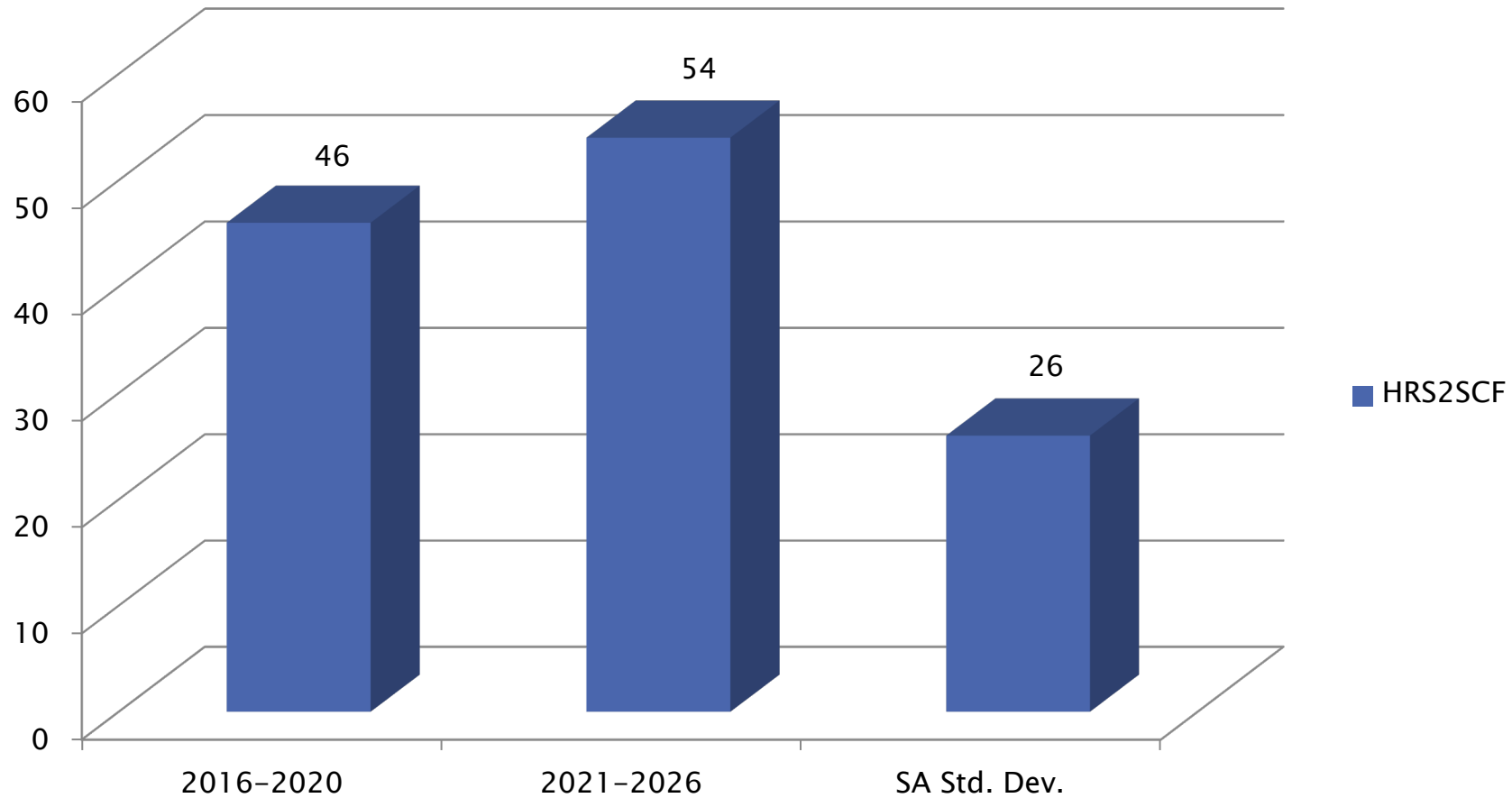
DD13 Test Severity

- ▶ HRS2 is in severity action alarm in the mild direction.

FNL. ORIG. UNIT HOURS TO SCUFF



DD13 Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
<https://www.astmtmc.org>



EOAT

»» April 2026

Test Monitoring Center
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A Program of ASTM International

EOAT Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

EOAT Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

EOAT Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

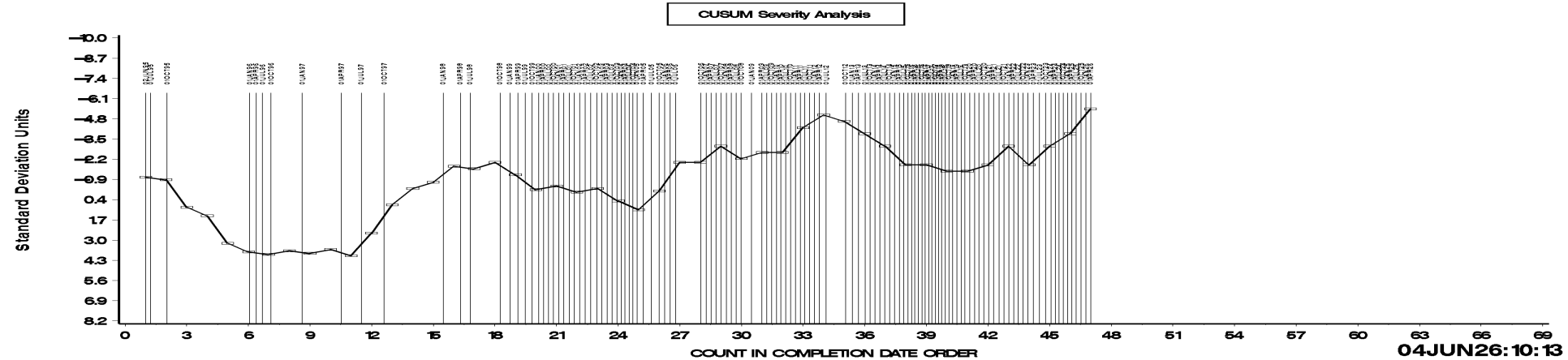
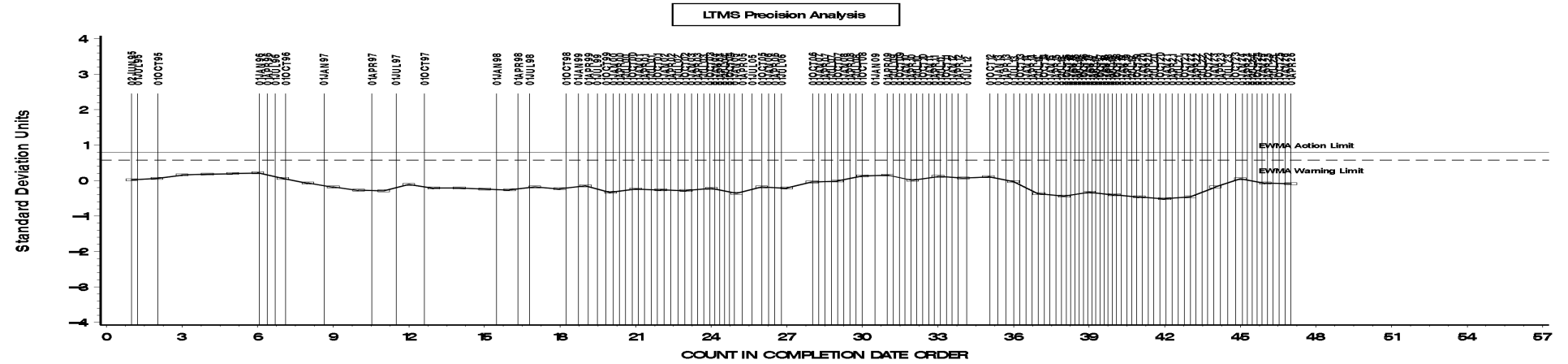
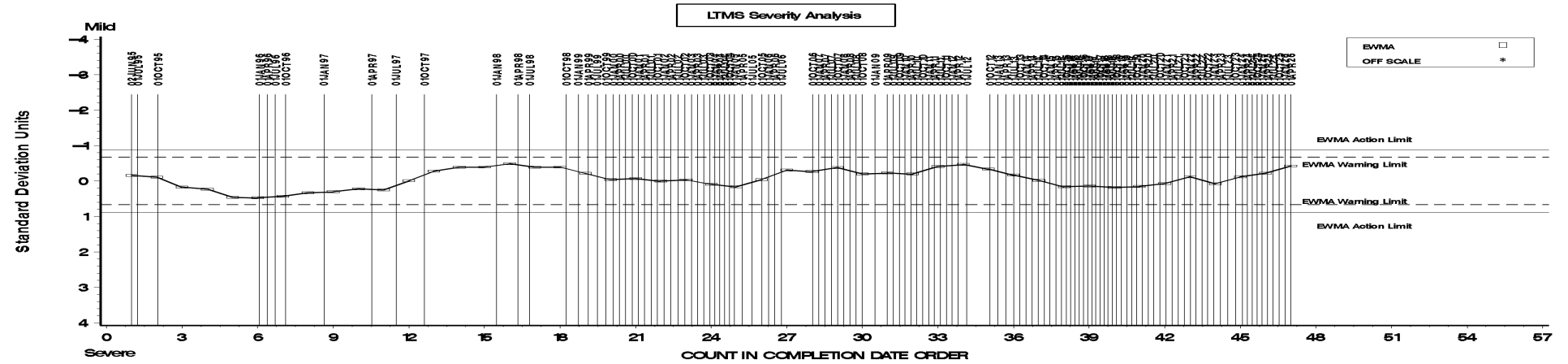
EOAT Test Severity

- ▶ As no chartable EOAT tests were run during this reporting period, no statement about test severity can be made.

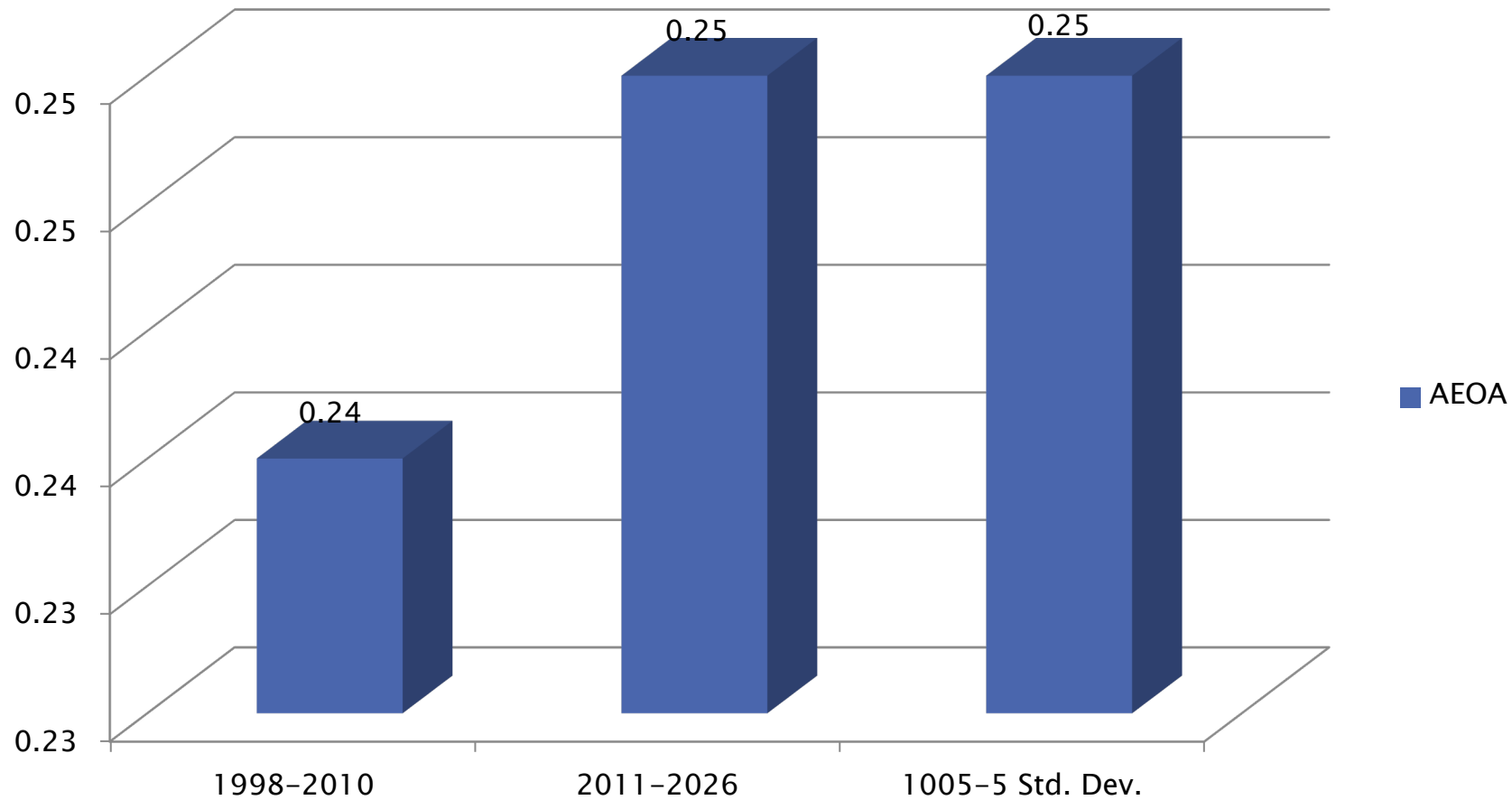
EOAT INDUSTRY OPERATIONALLY VALID DATA



ENGINE OIL AERATION



EOAT Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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Cummins ISB

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

ISB Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	1
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Informational	NN	1
Total		2

ISB Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

ISB Lost Tests*

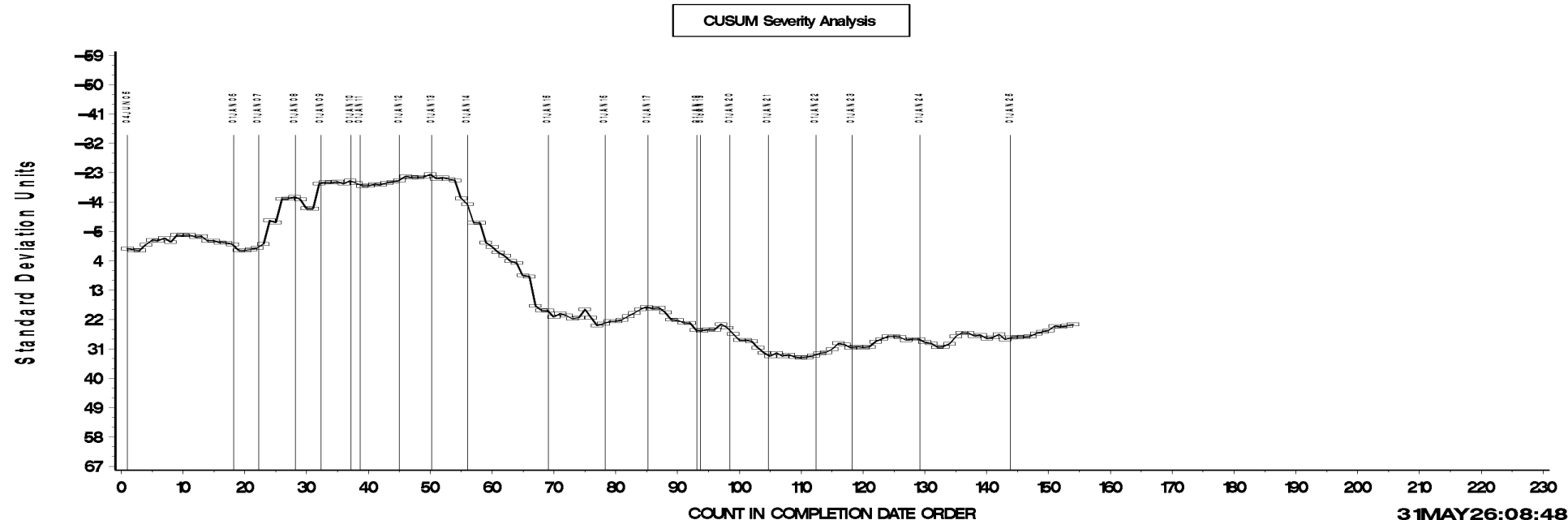
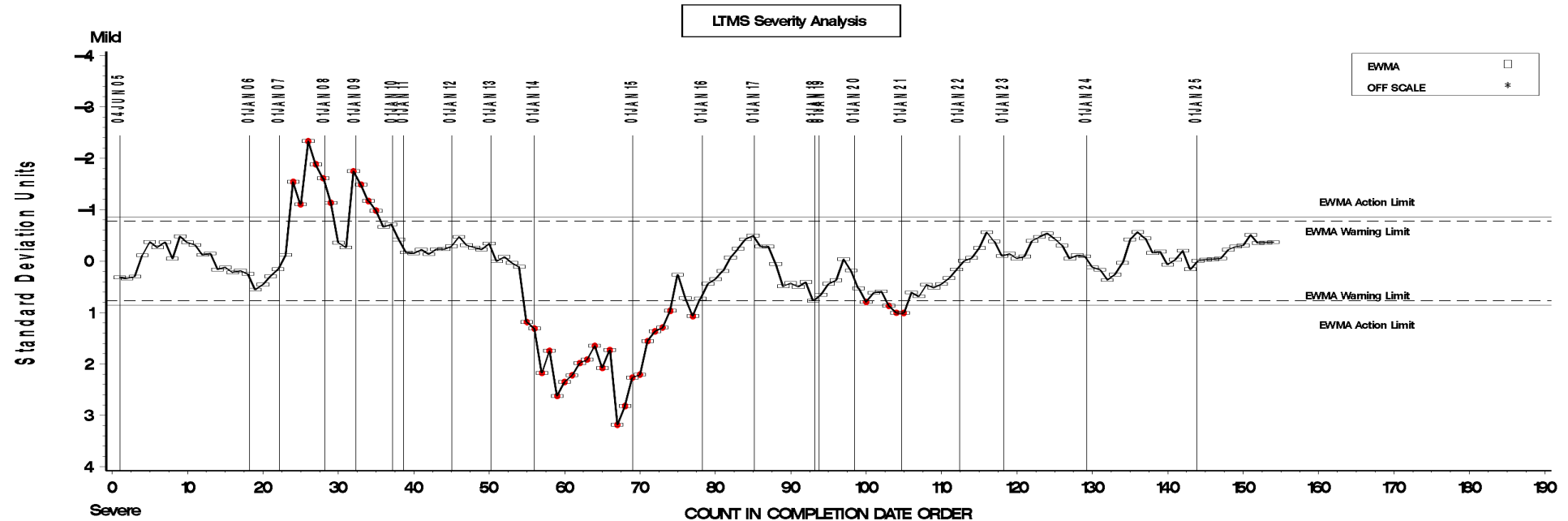
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

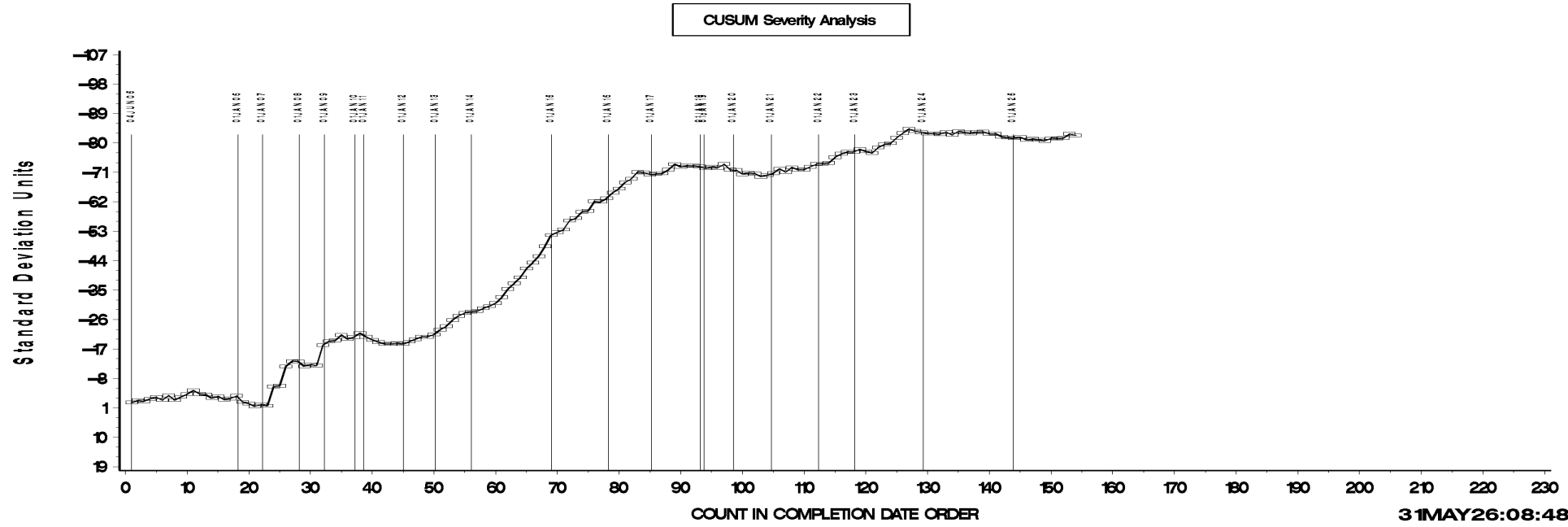
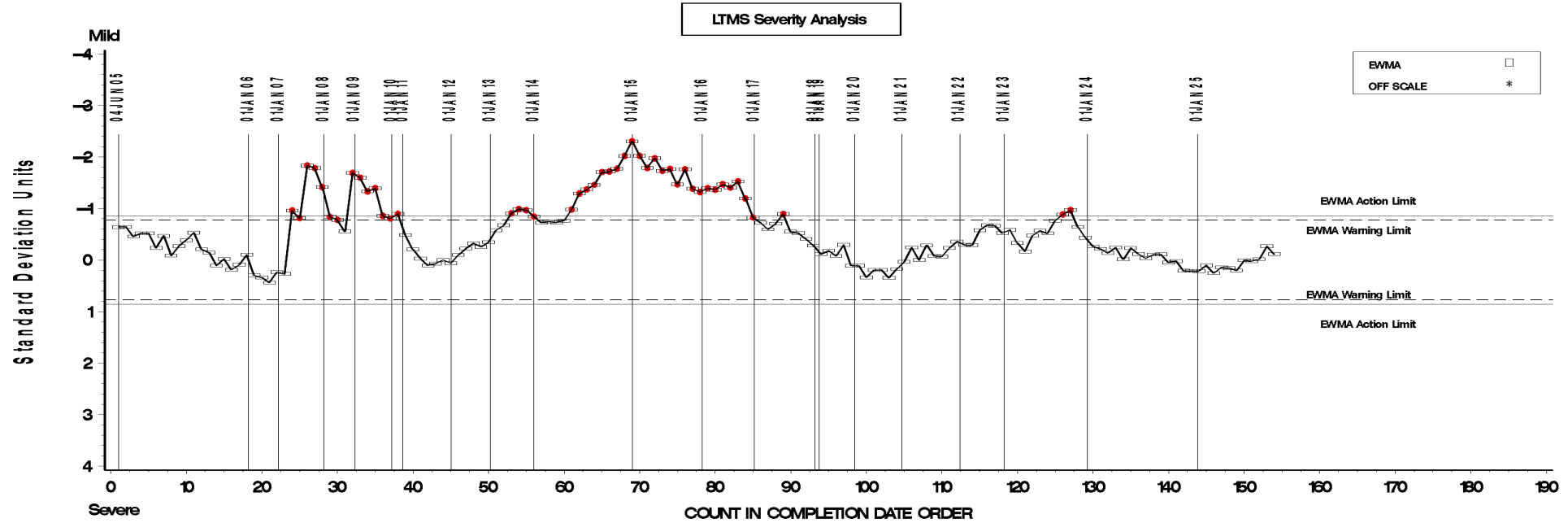
ISB Test Severity

- ▶ ACSW and ATWL are in control.

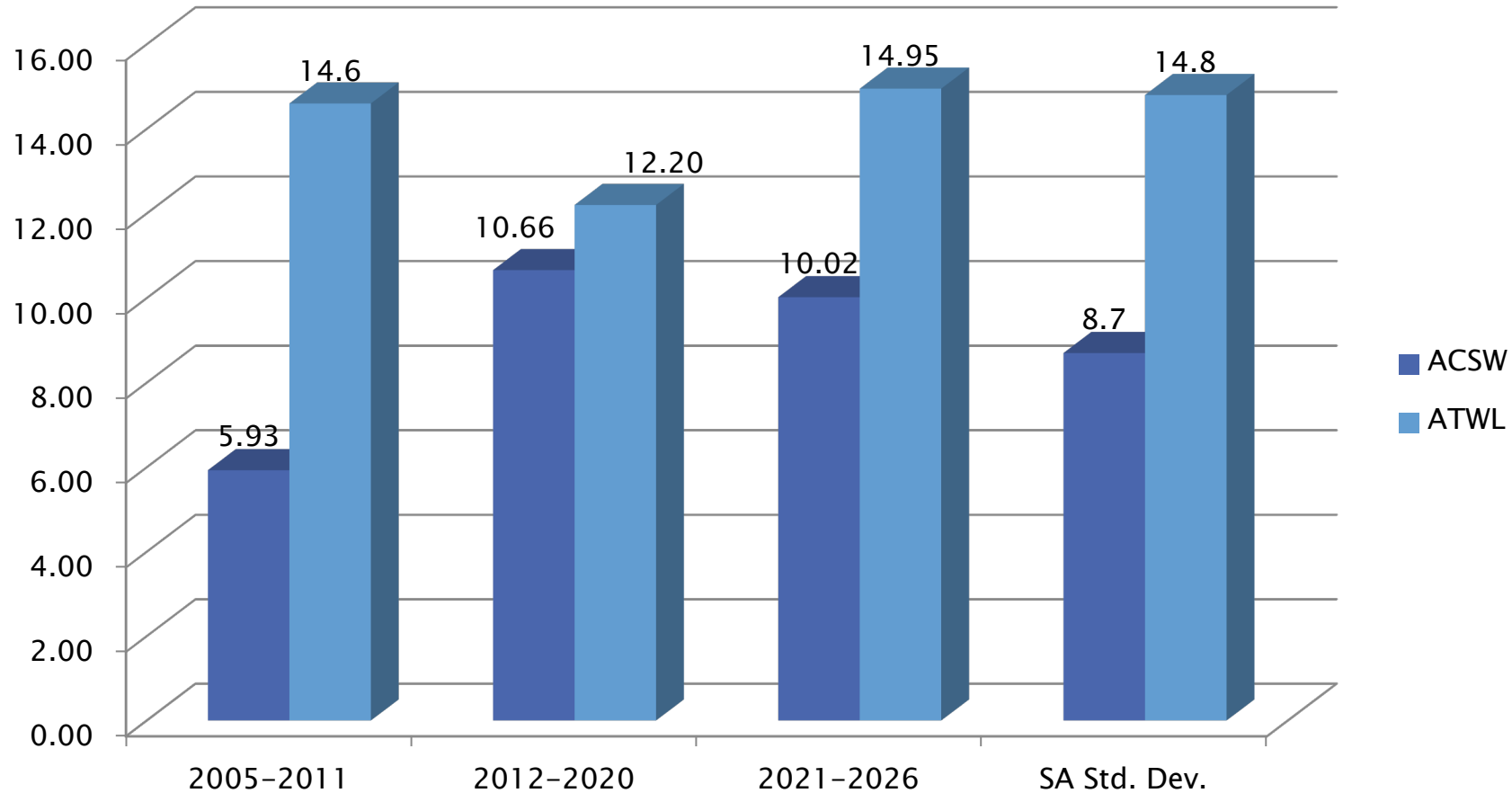
TRANS FINAL AVG CAMSHAFT WEAR



TRANS FINAL AVG TAPPET WEIGHT LOSS



ISB Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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Cummins ISM

»» April 2026

Test Monitoring Center
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A Program of ASTM International

ISM Test Activity

Test Status	Validity Code	#
Acceptable Calibration	AC	4
Failed Calibration	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		4

ISM Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

ISM Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

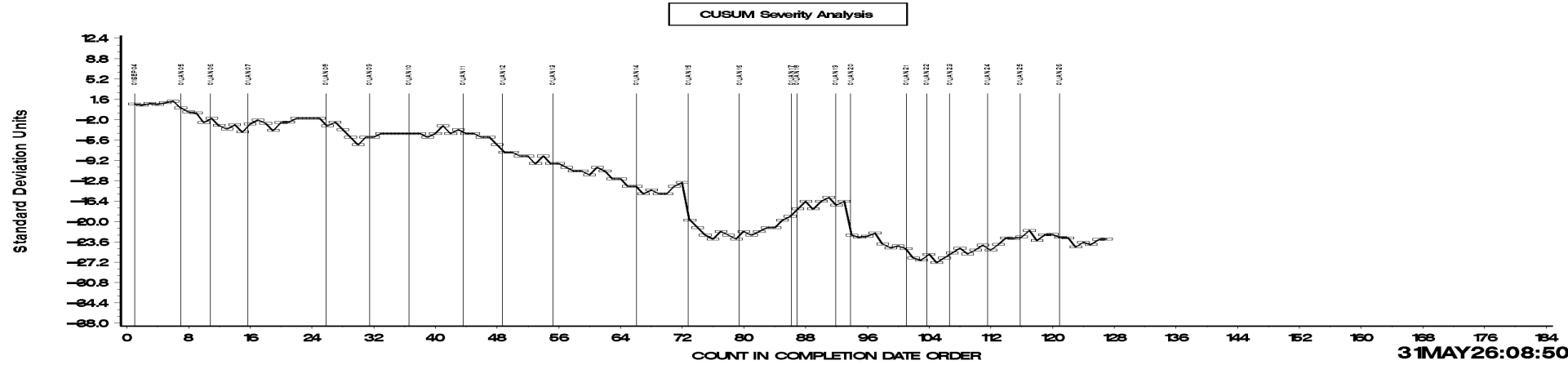
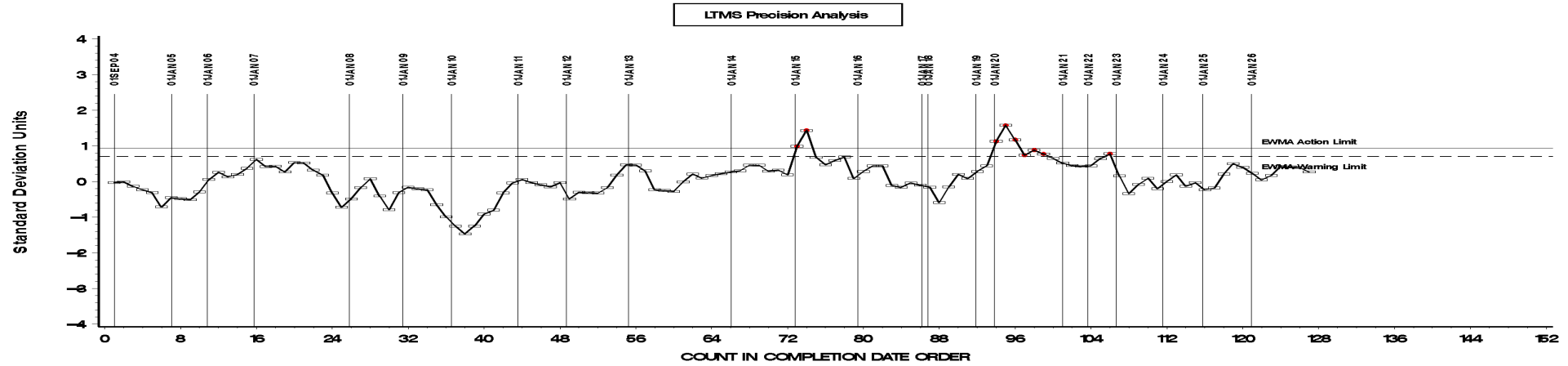
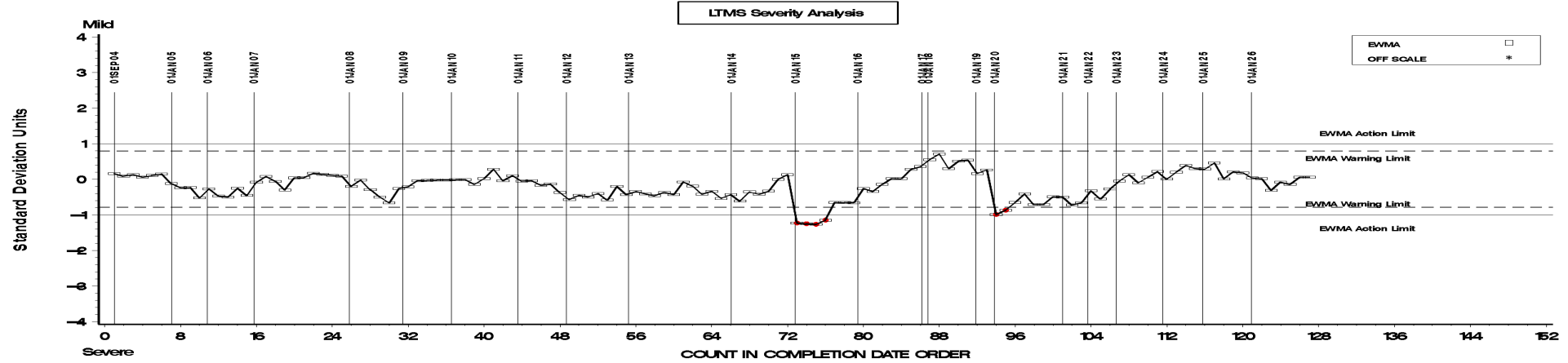
ISM Test Severity

- ▶ CWL is in severity warning alarm in the mild direction.
- ▶ All other parameters are in control.

ISM INDUSTRY OPERATIONALLY VALID DATA



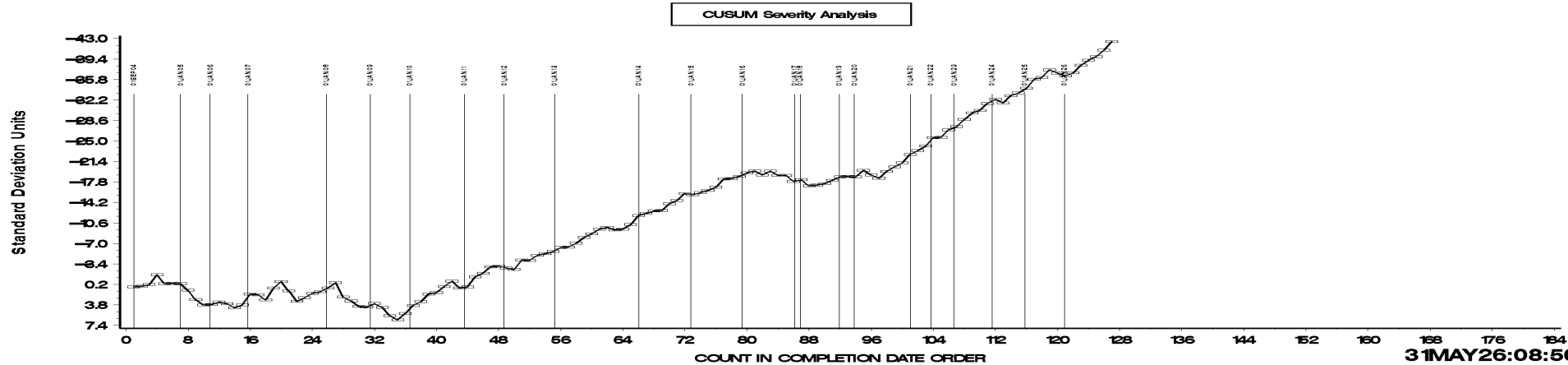
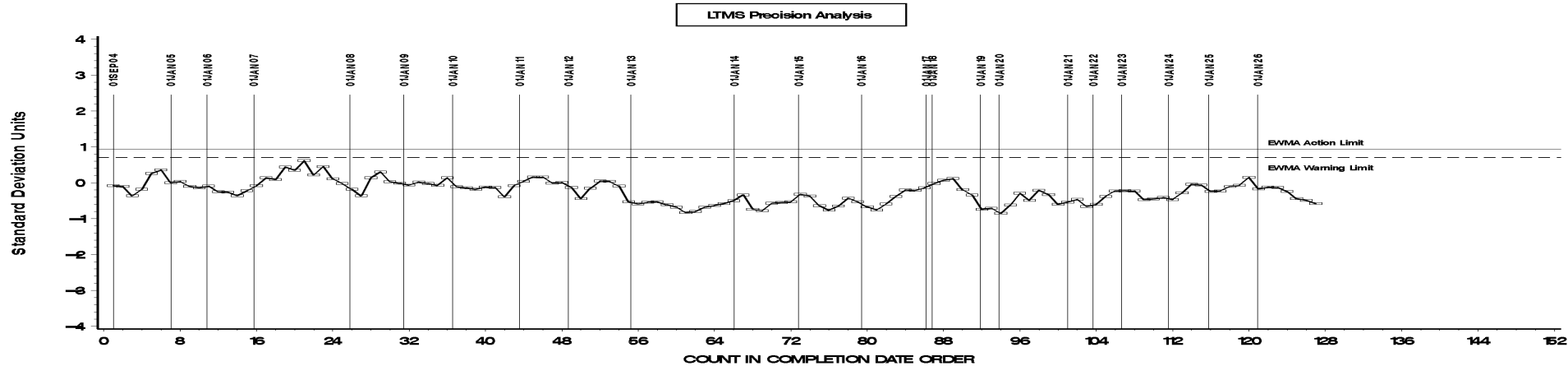
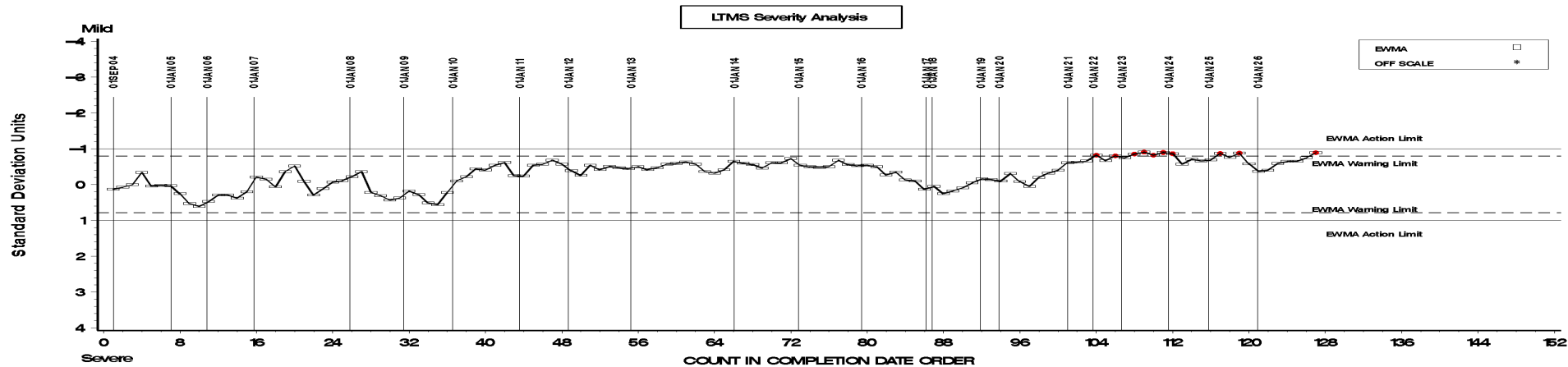
AVERAGE SLUDGE RATING



ISM INDUSTRY OPERATIONALLY VALID DATA



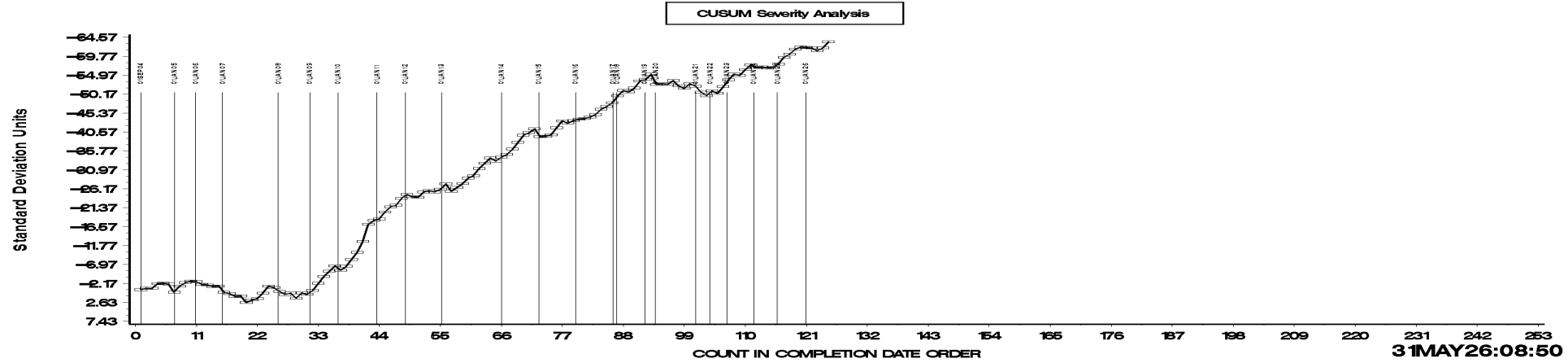
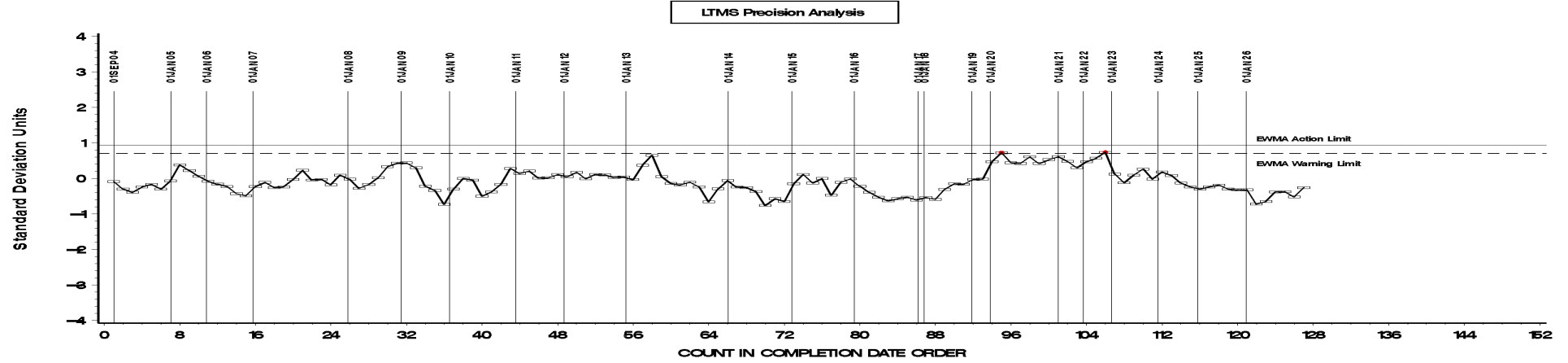
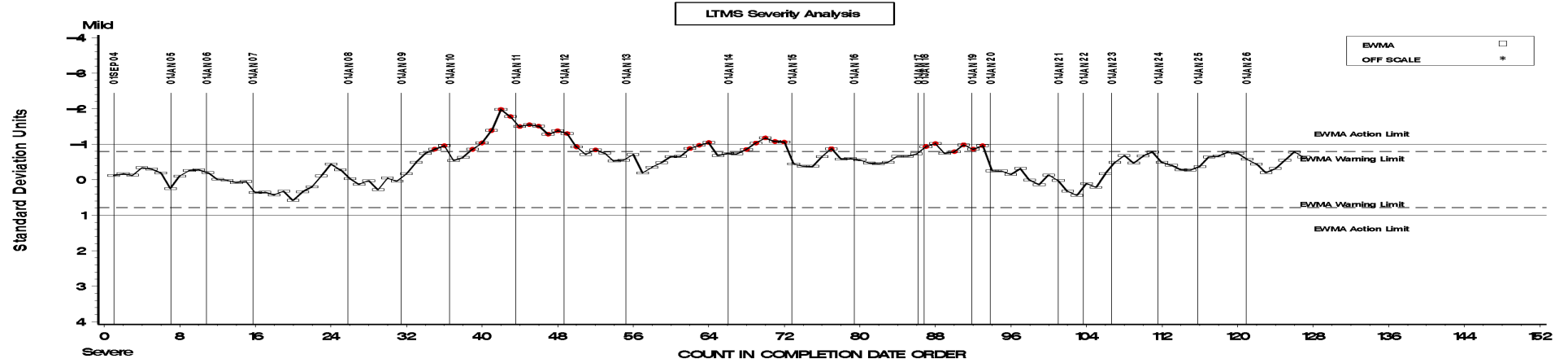
CROSSHEAD WEIGHT LOSS ADJUSTED TO 3.9 % SOOT



ISM INDUSTRY OPERATIONALLY VALID DATA



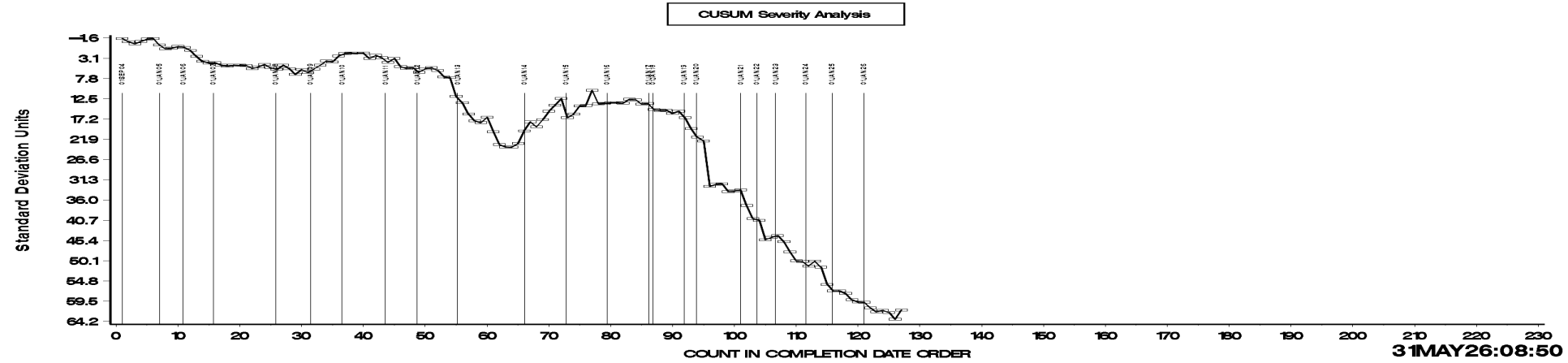
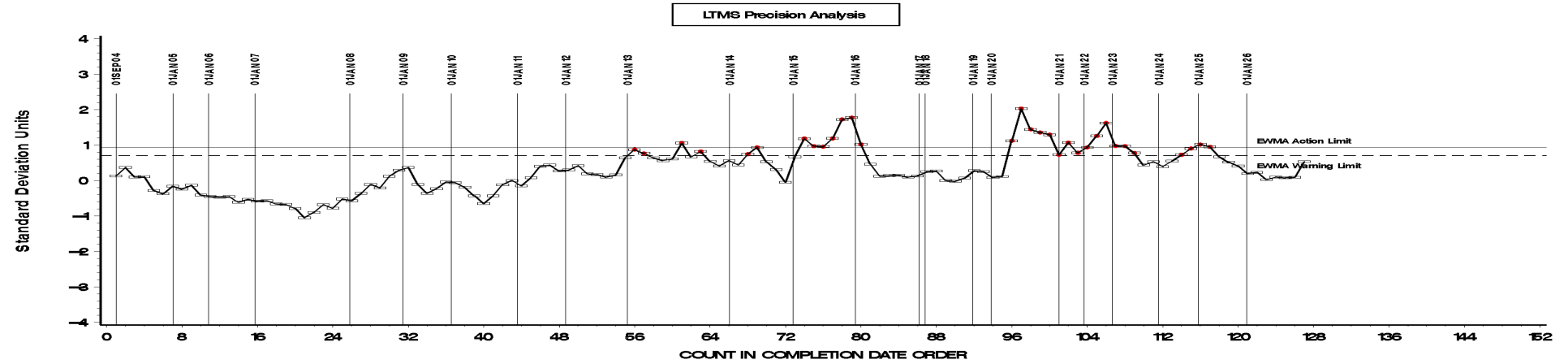
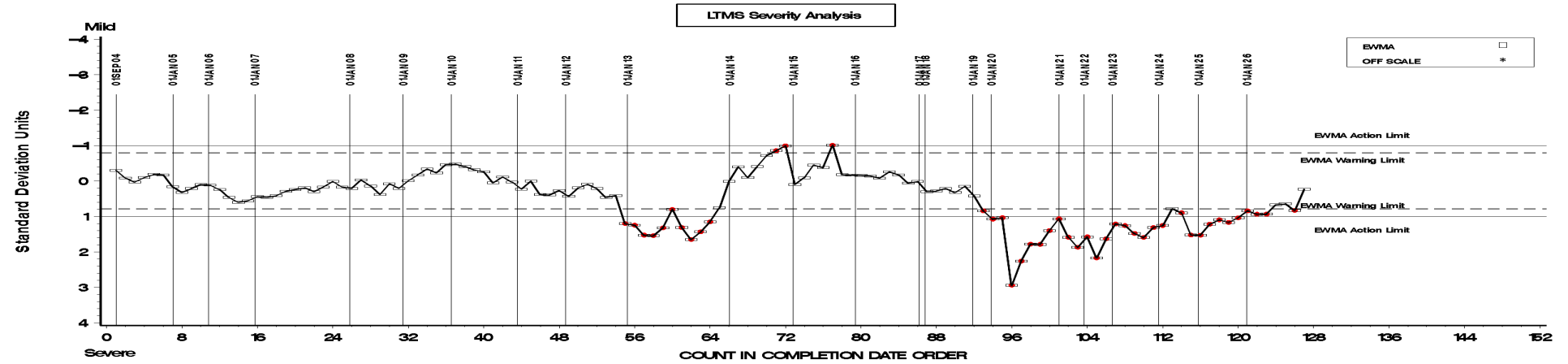
OIL FILTER DELTA PRESSURE



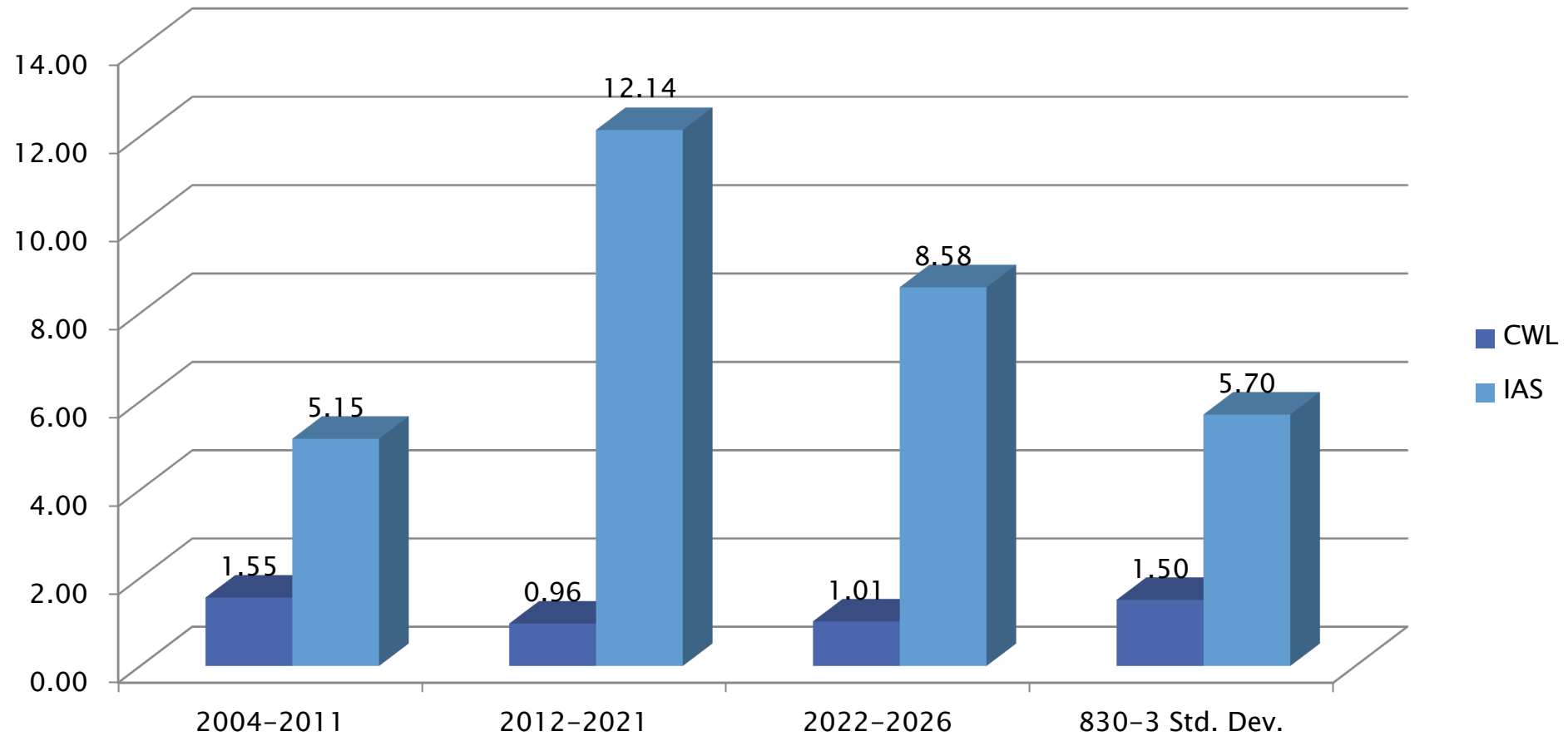
ISM INDUSTRY OPERATIONALLY VALID DATA



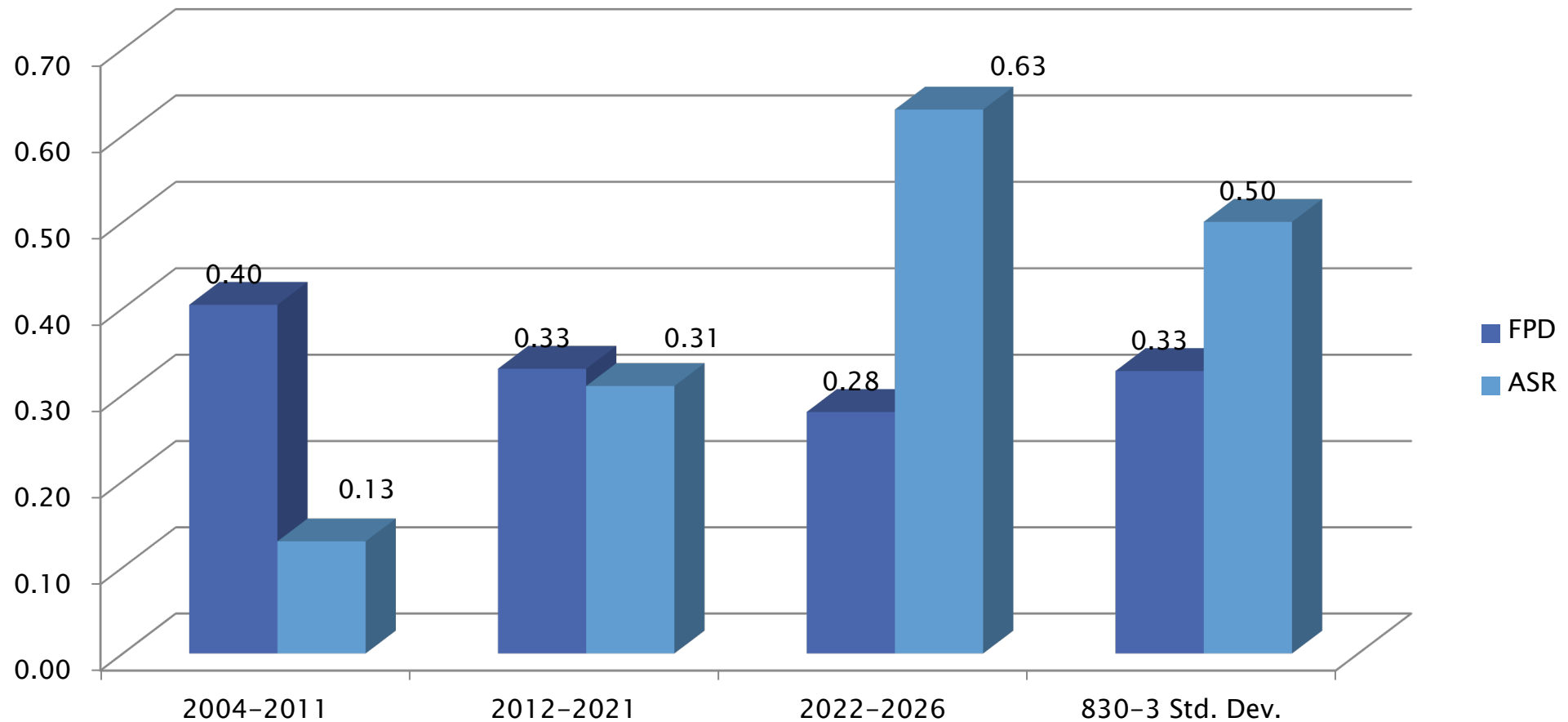
INJECTOR SCREW WEIGHT LOSS ADJUSTED TO 3.9% SOOT



ISM Precision Estimates



ISM Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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Cummins ISBV108

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

ISBV108 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	4
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	1
Total		5

ISBV108 Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

ISBV108 Lost Tests*

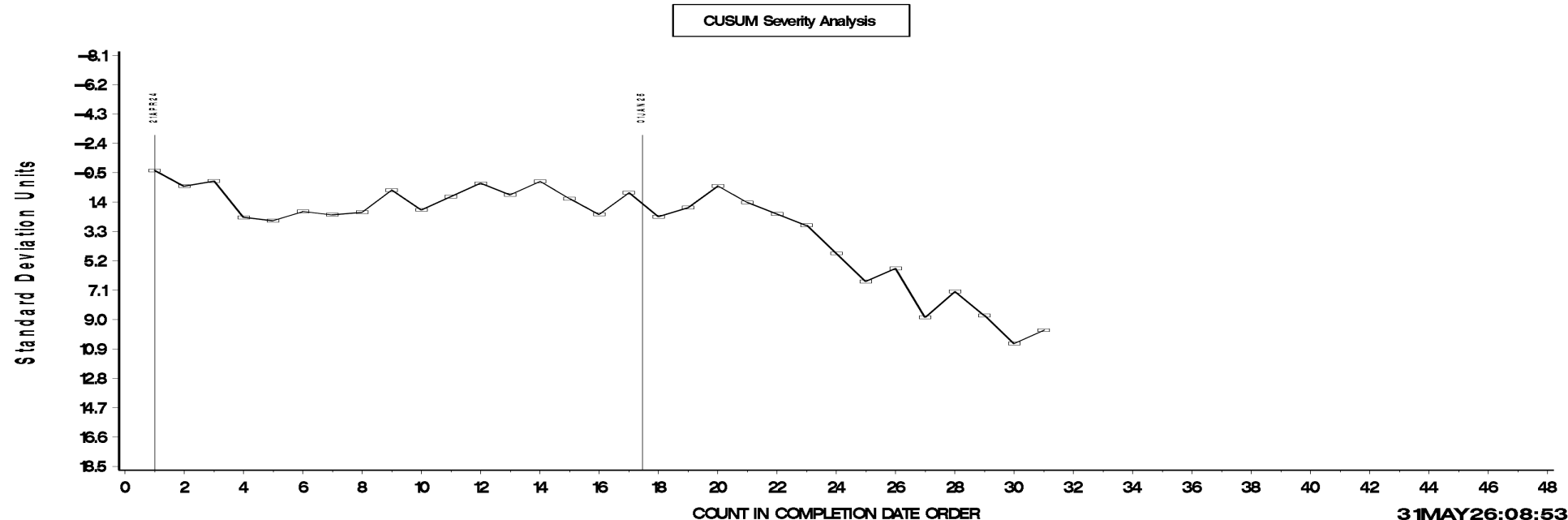
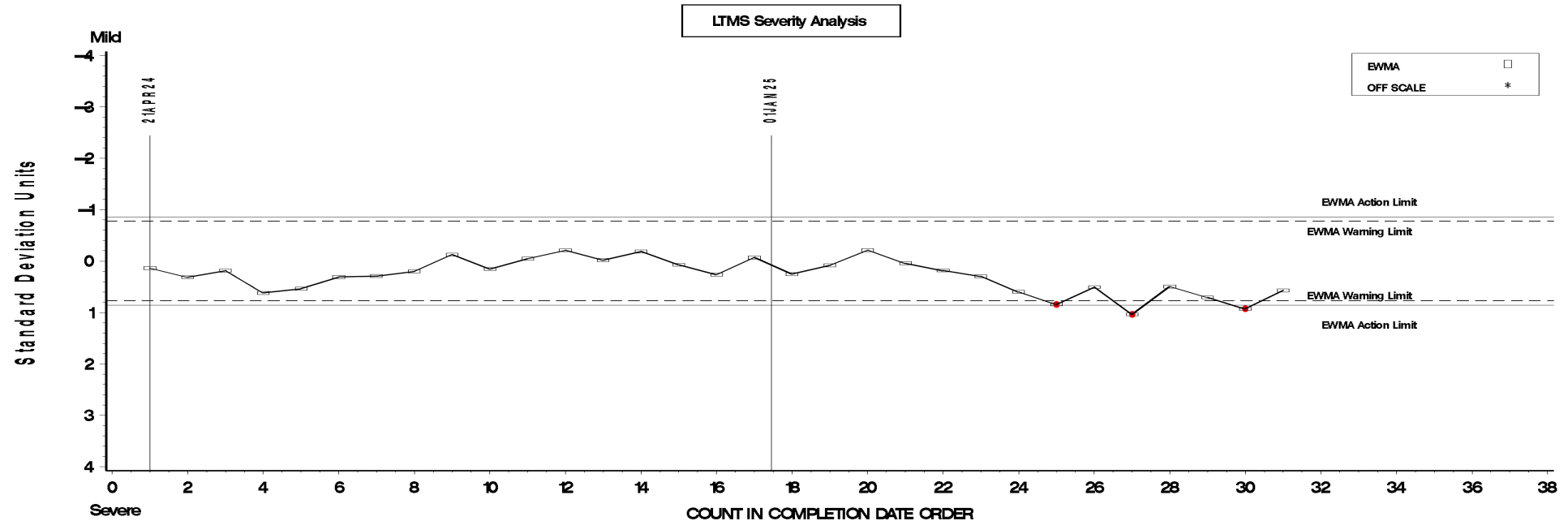
Status	Cause	#
Invalid	No invalid tests	0
Aborted	Incorrect pressure transducer	1
Total		1

*Invalid and aborted tests

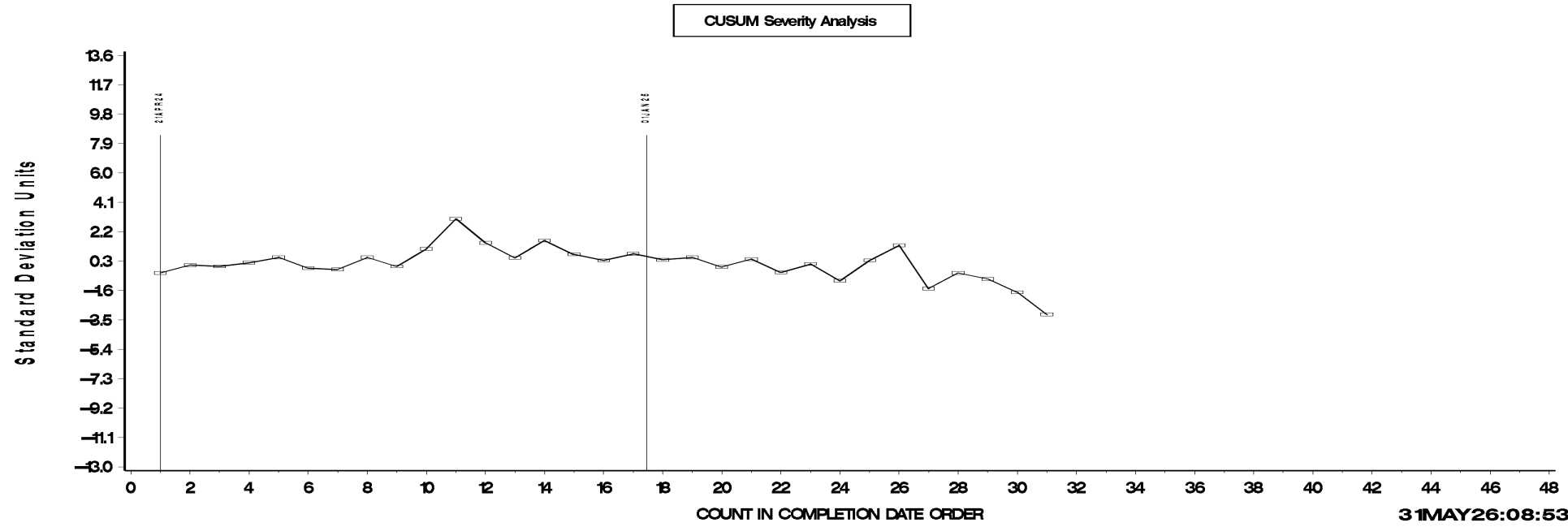
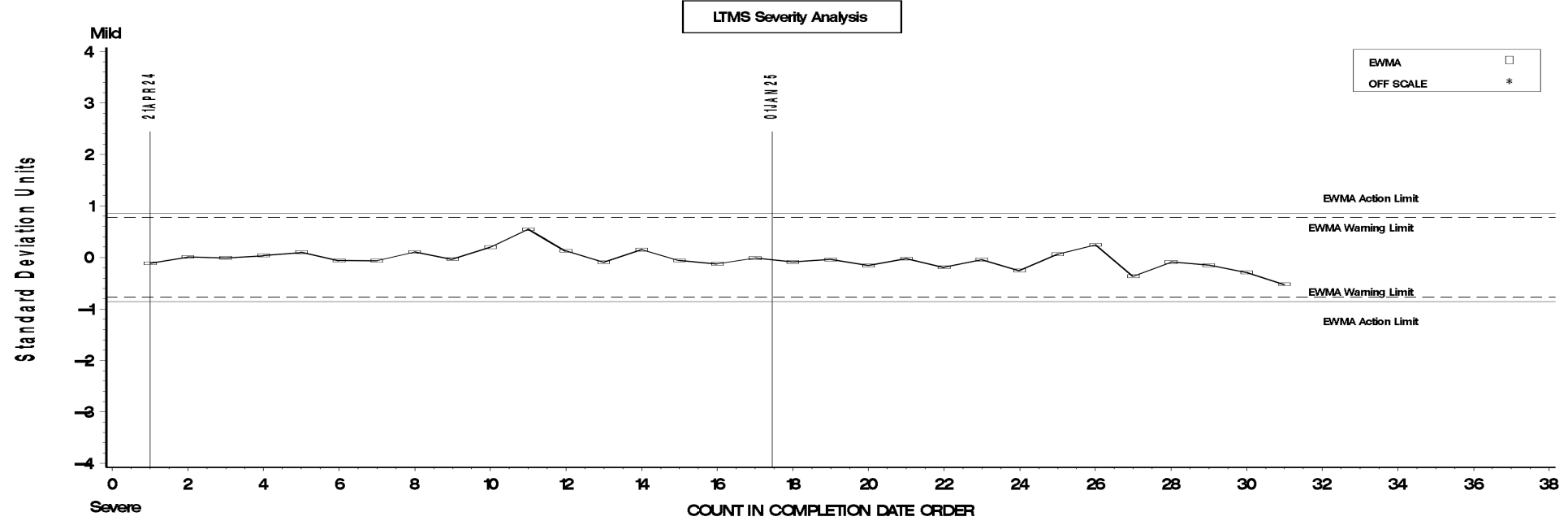
ISBV108 Test Severity

- ▶ SOOT4 is in severity action alarm in the severe direction
- ▶ SOOT6 is in severity warning alarm in the severe direction
- ▶ All other parameters are in control

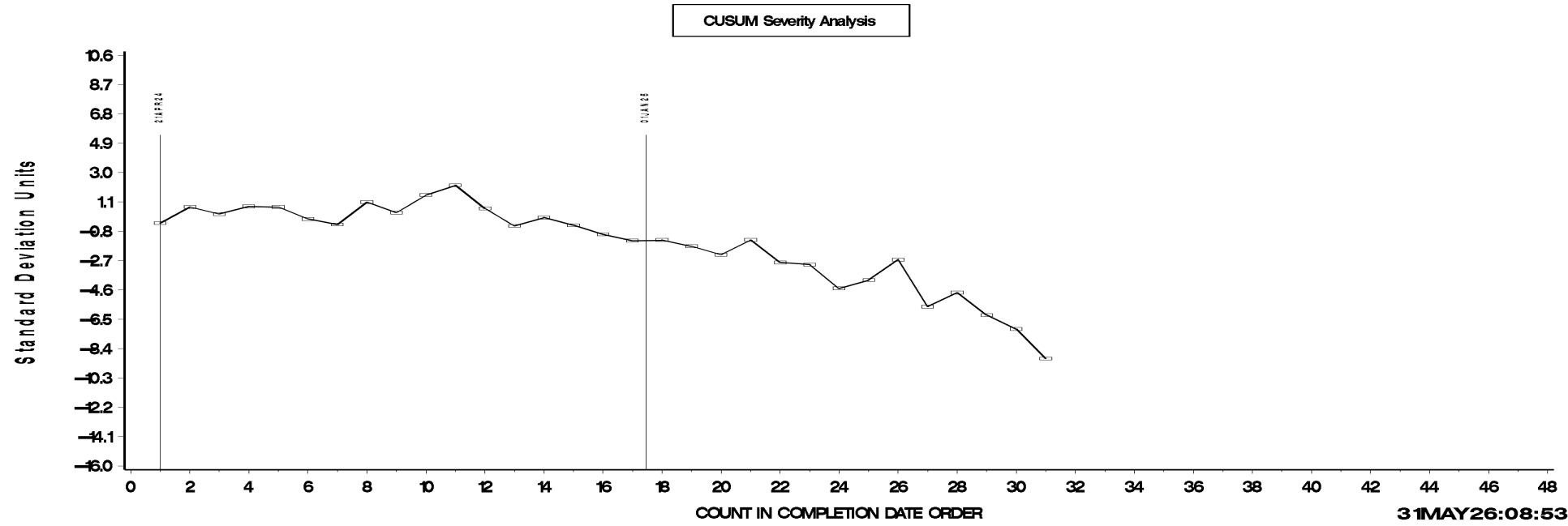
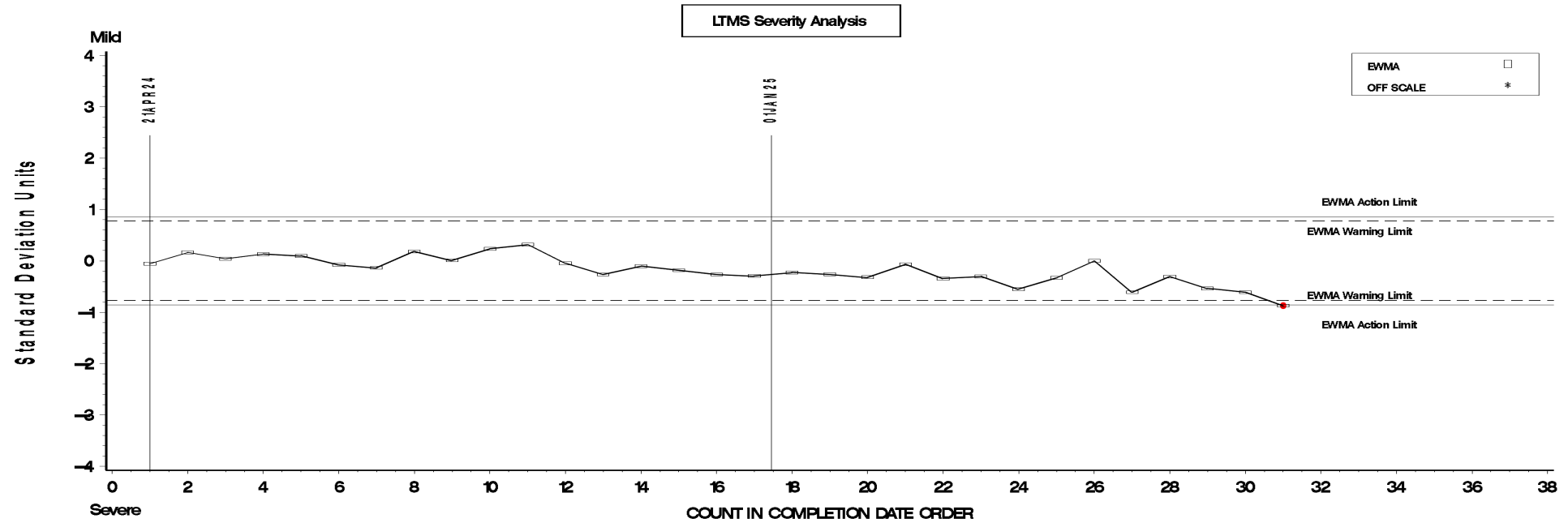
FINAL MRV VISCOSITY [NM, SOLID, FROZEN, <, >]



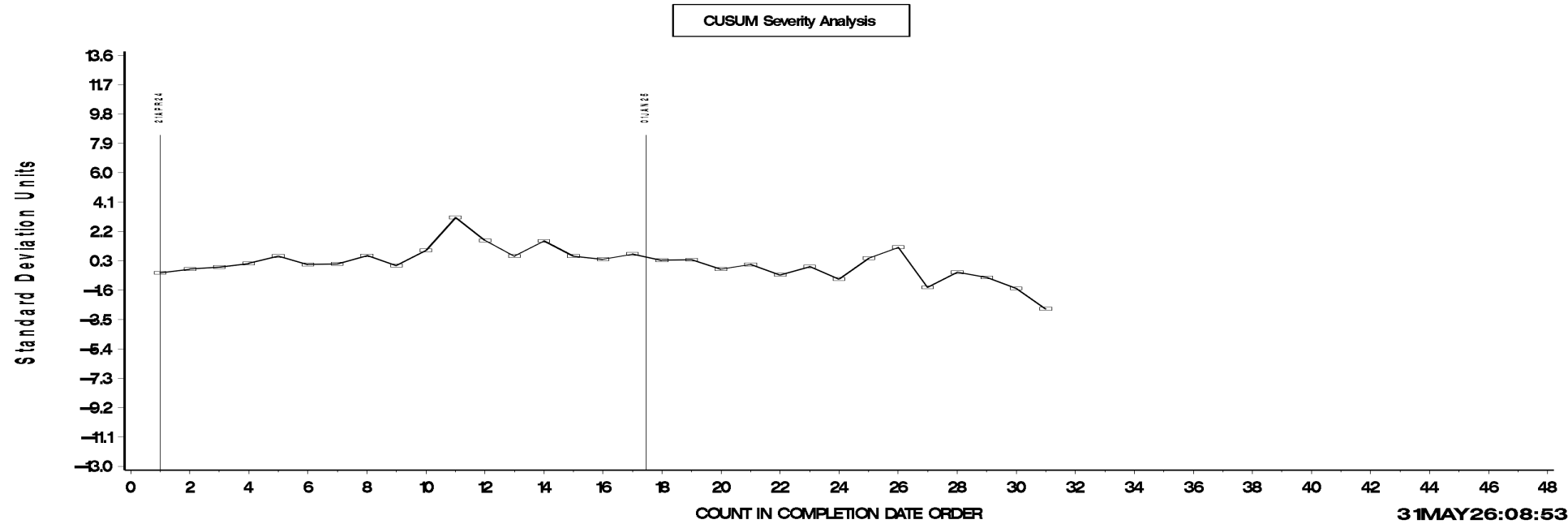
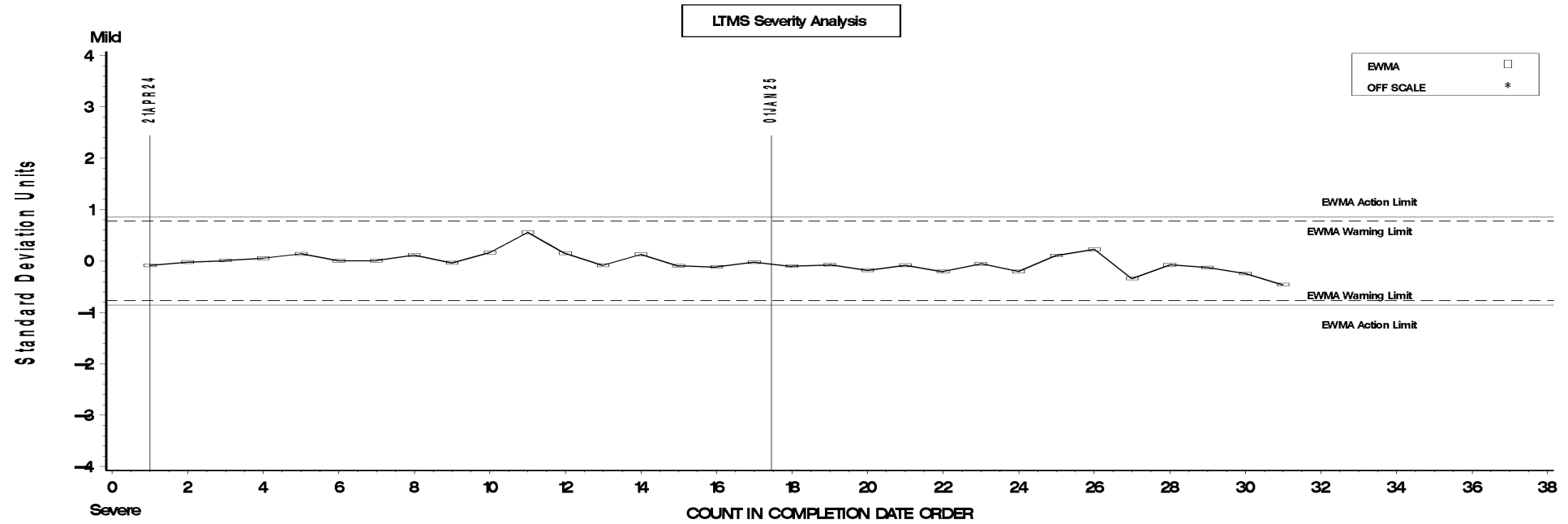
FINAL SOOT % AT 12 cSt [$>$]



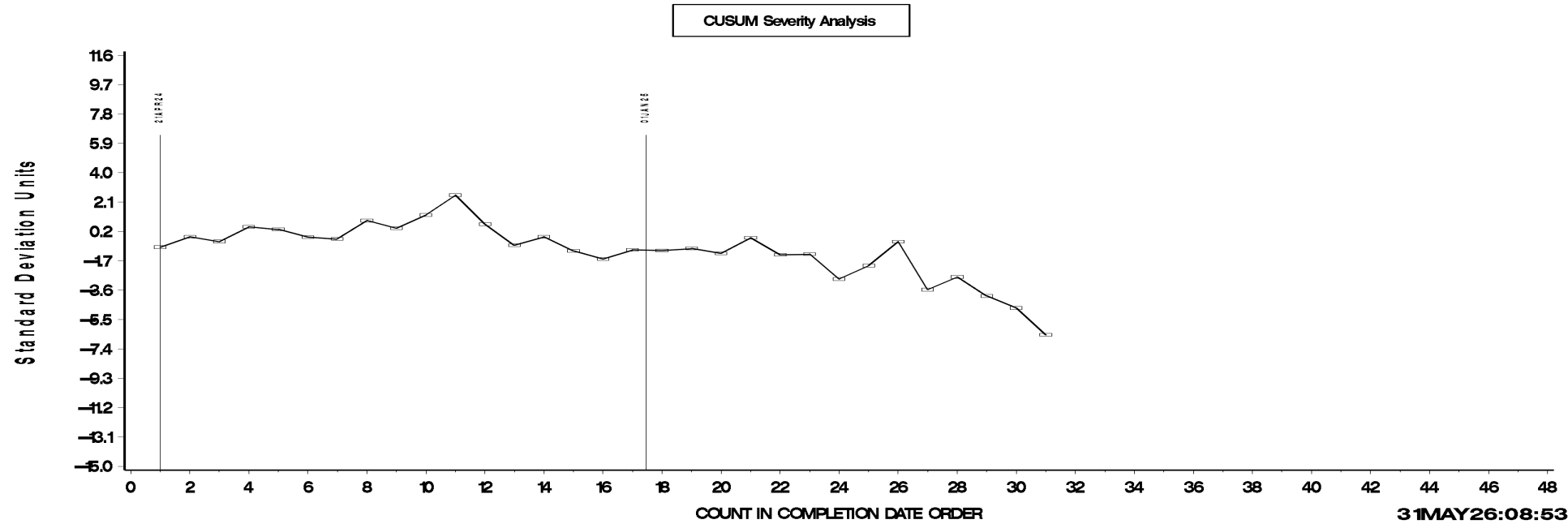
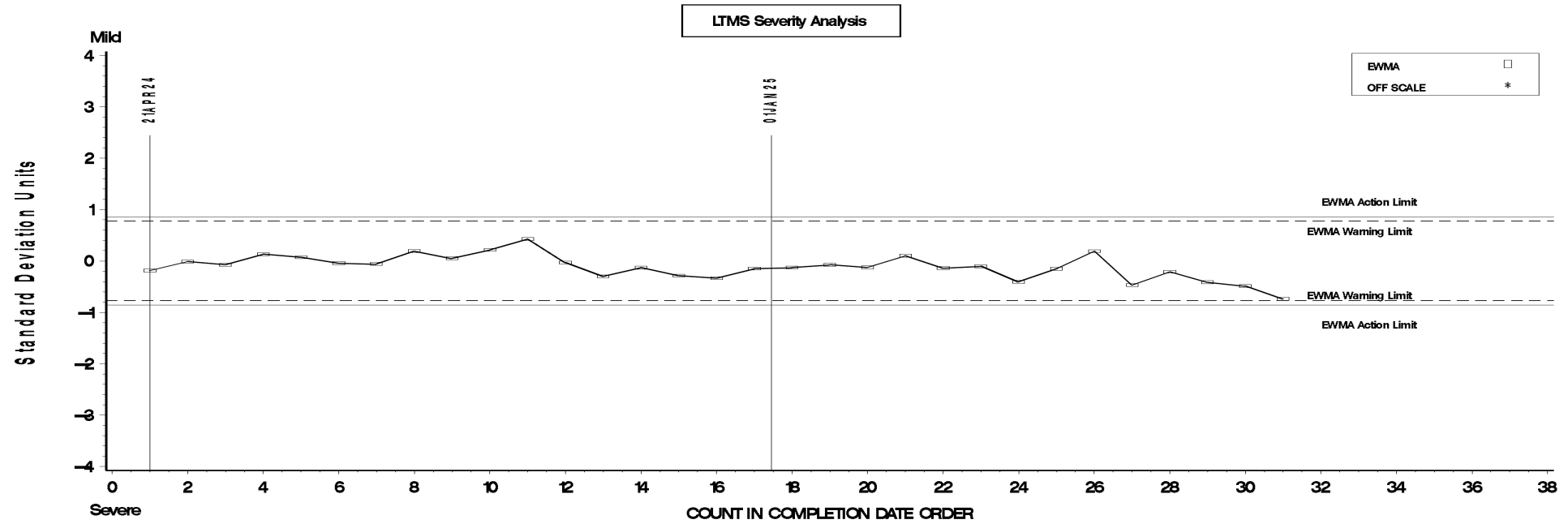
FINAL SOOT % AT 4 cSt [>]



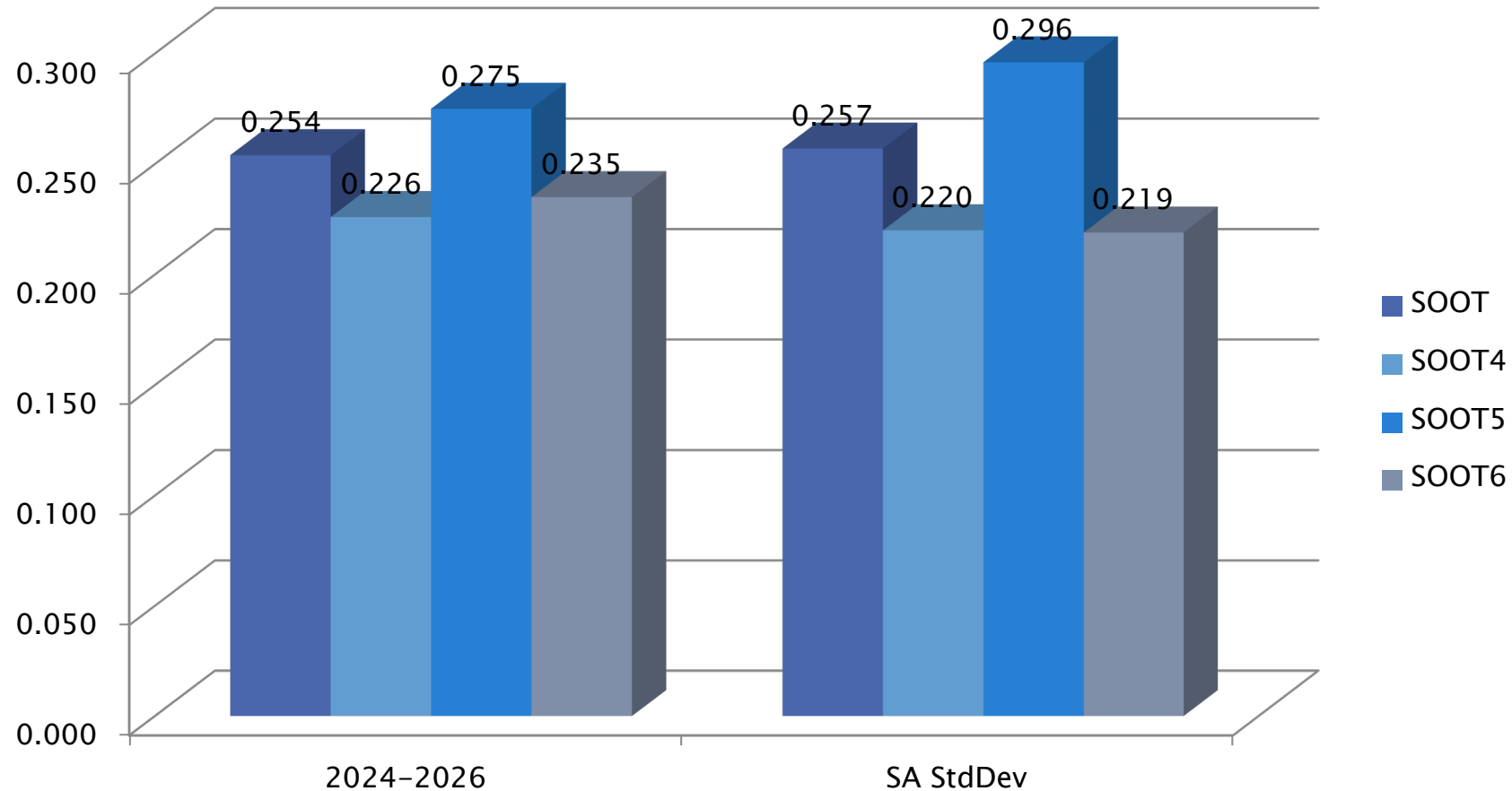
FINAL SOOT % AT 15 cSt [$>$]



FINAL SOOT % AT 6 cSt [>]

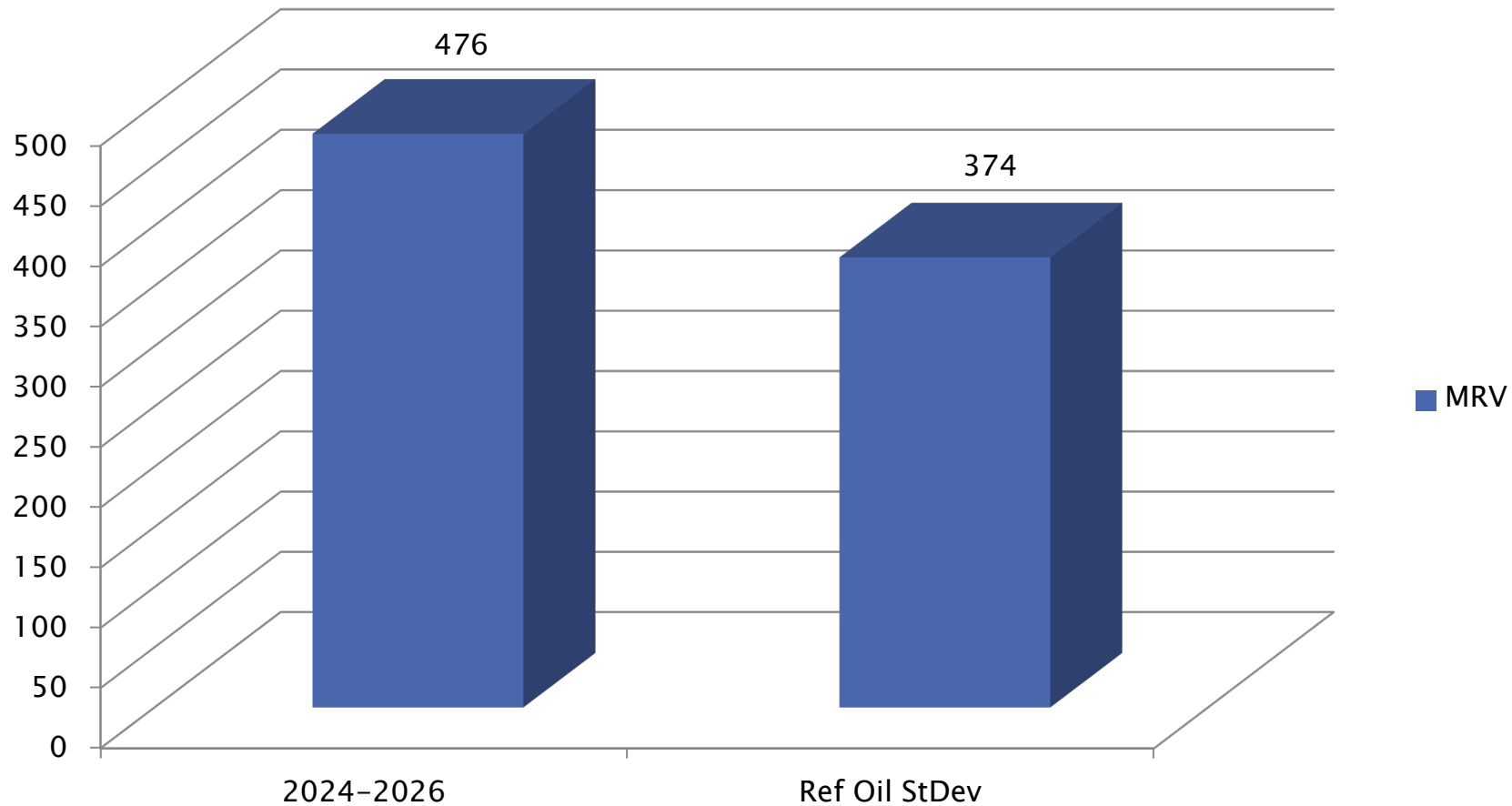


ISBV108 Precision Estimates



[Return to Table of Contents](#)

ISBV108 Precision Estimates



[Return to Table of Contents](#)

Cummins ISBV156

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

ISBV1 56 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	4
Failed Calibration Test	OC	1
Operationally Invalid	LC	1
Aborted	XC	0
Total		6

ISBV1 56 Failed Tests

Failed Parameter	Number of Tests
Exceeded $ Y_i < 1$ for SOOT & SOOT5	1
Total	1

ISBV1 56 Lost Tests*

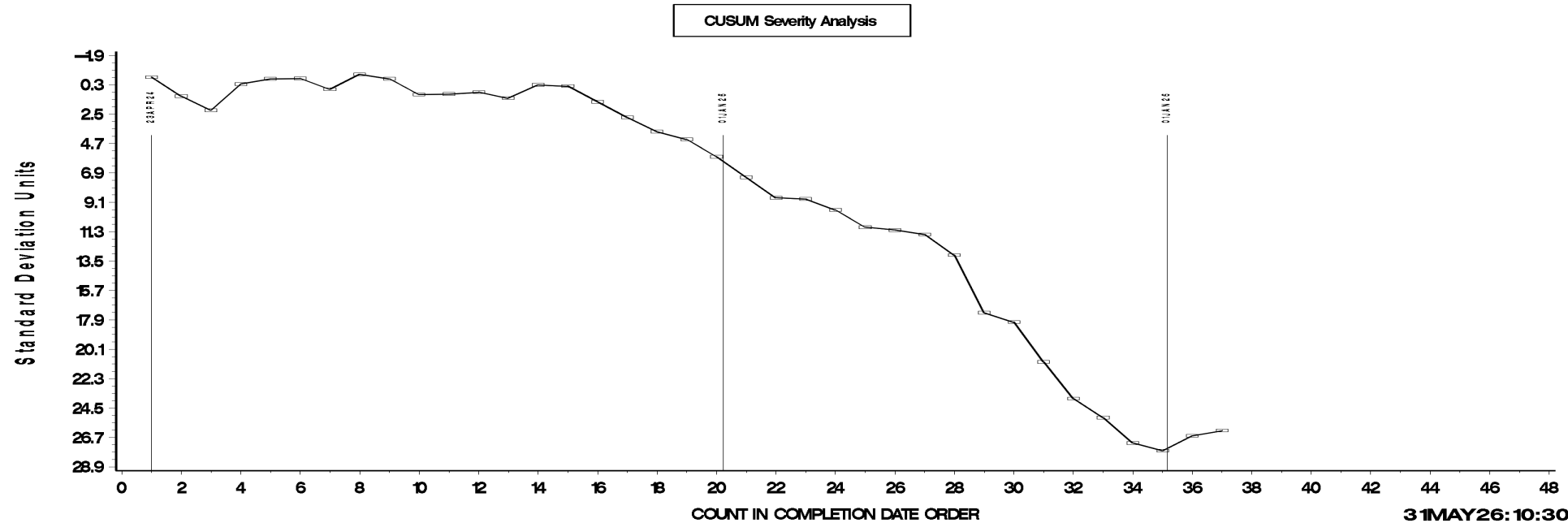
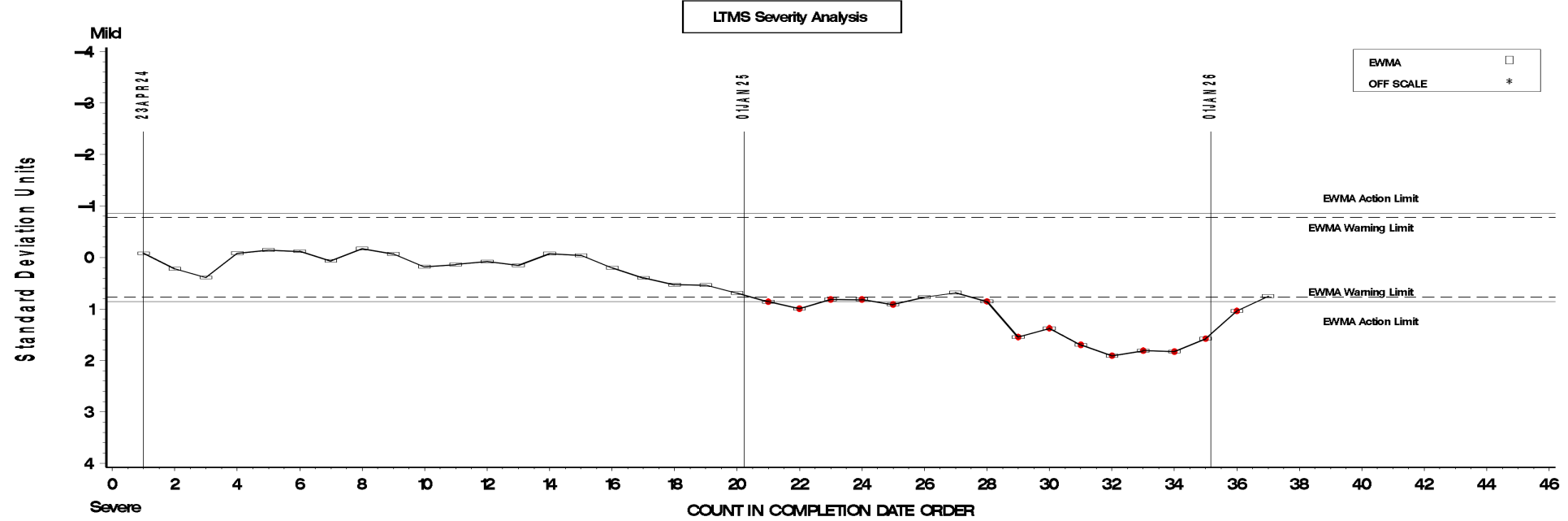
Status	Cause	#
Invalid	Did not reach 15cSt before EOT	1
Aborted	No aborted tests	0
Total		1

*Invalid and aborted tests

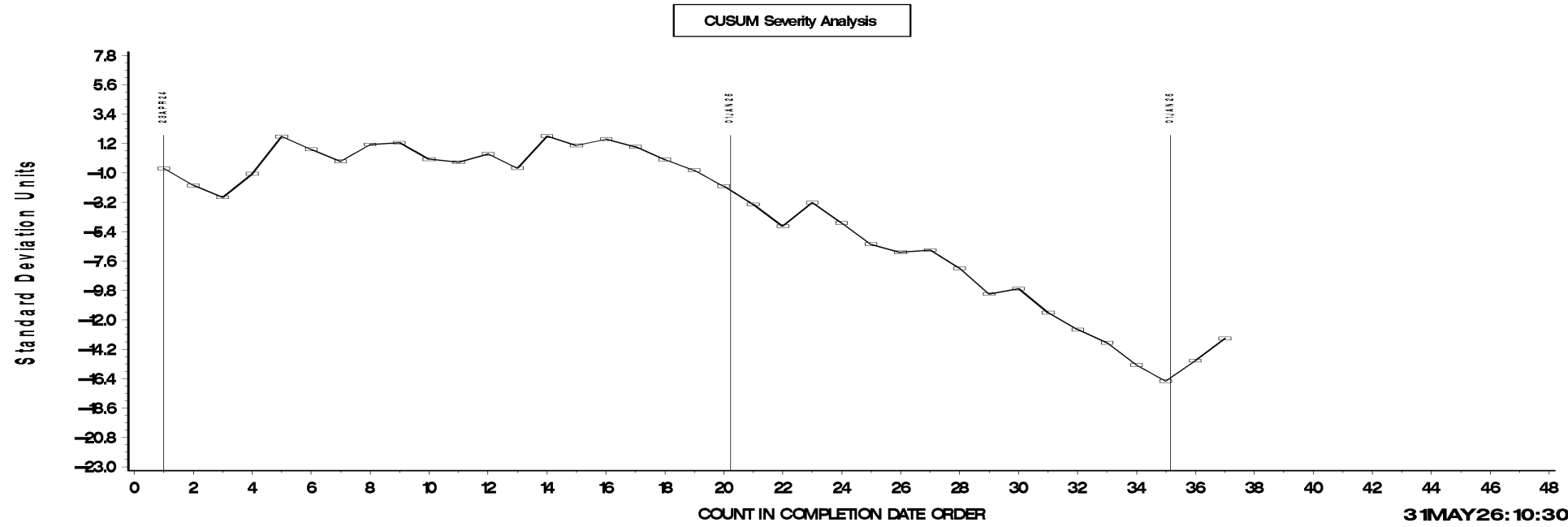
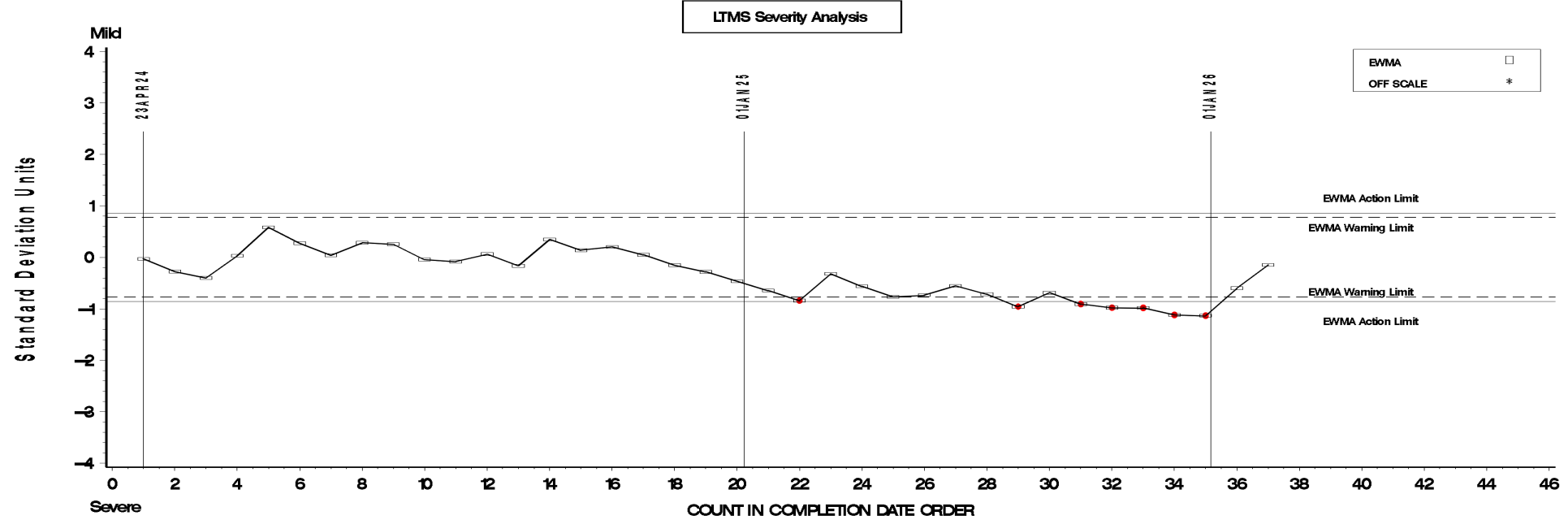
ISBV1 56 Test Severity

- ▶ SOOT4 is in severity action alarm in the severe direction.
- ▶ All other parameters are in control.

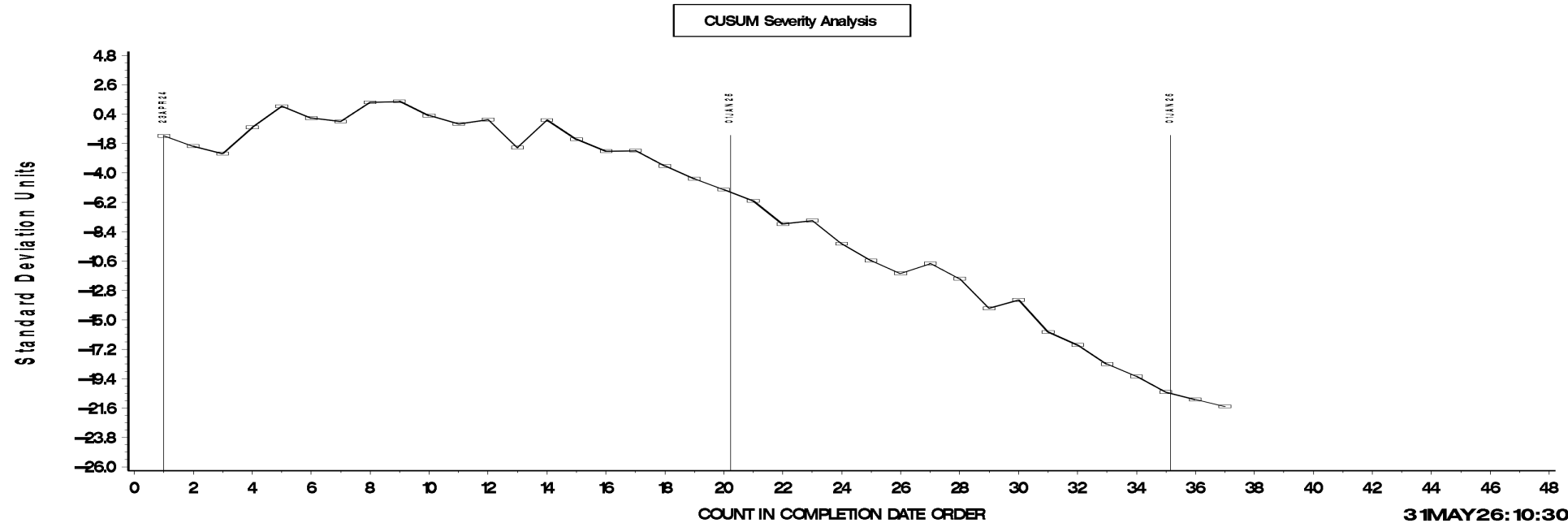
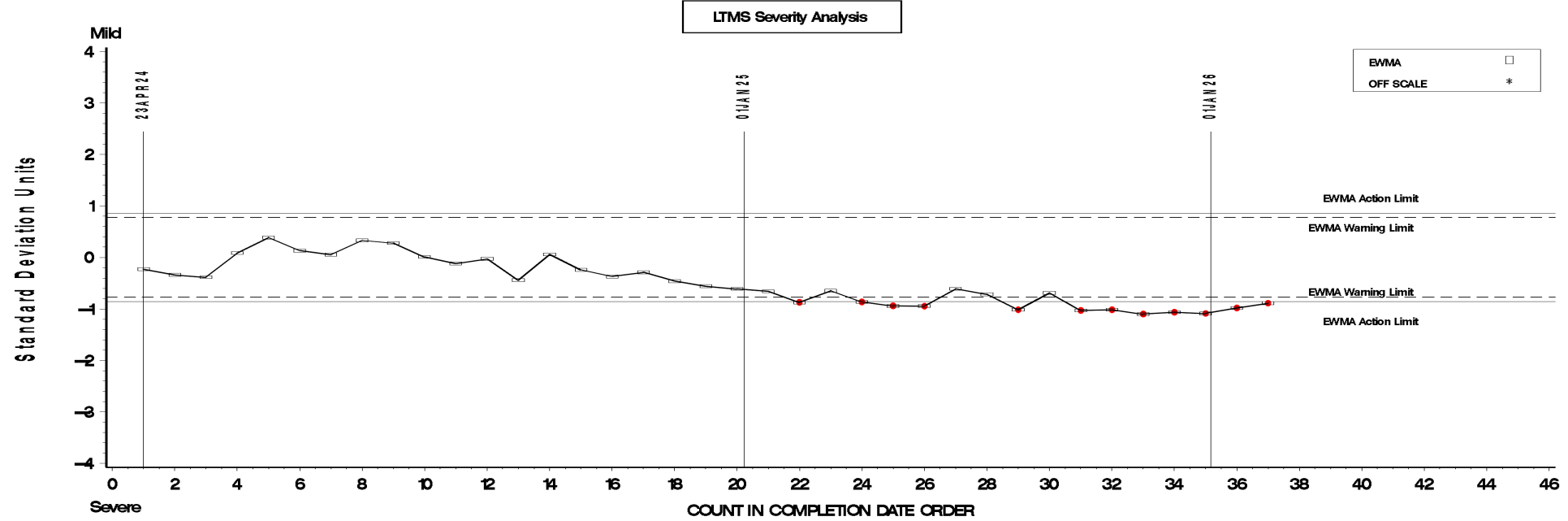
FINAL MRV VISCOSITY [NM, SOLID, FROZEN, <, >]



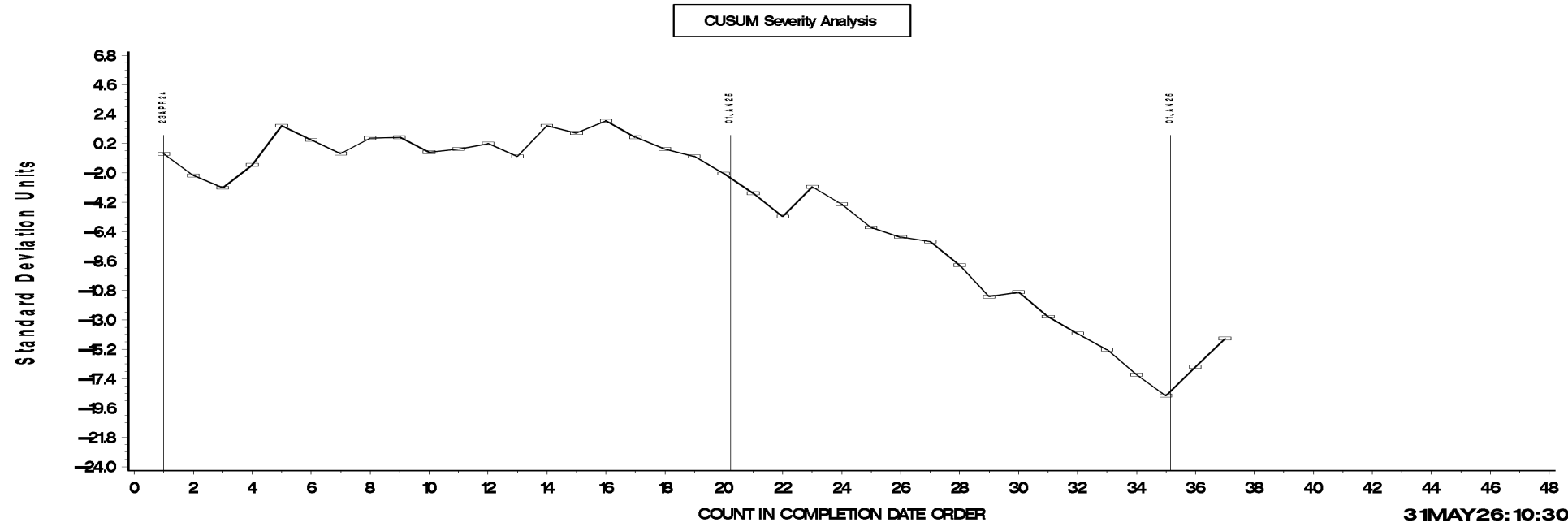
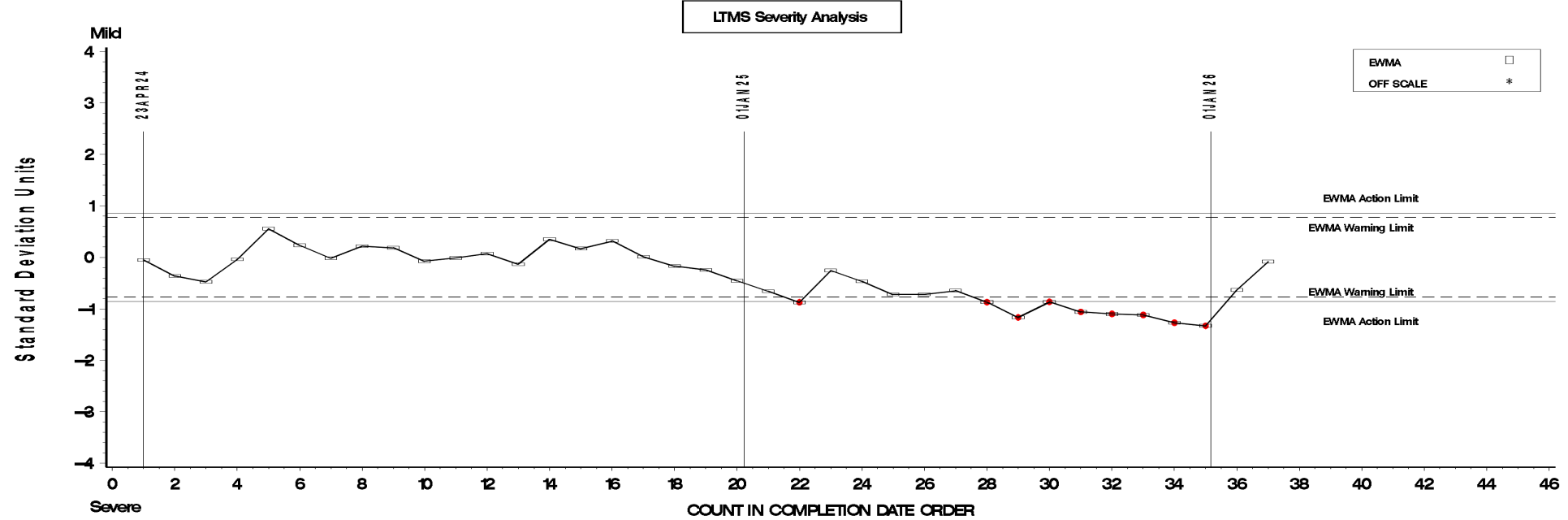
FINAL SOOT % AT 12 cSt [>]



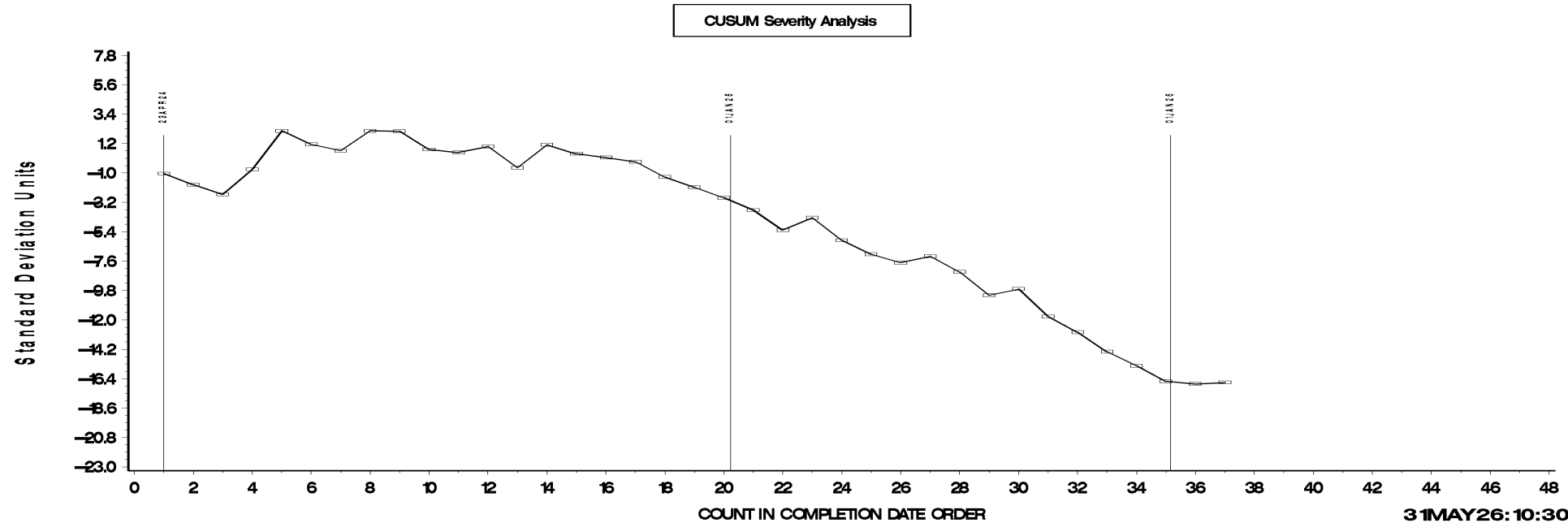
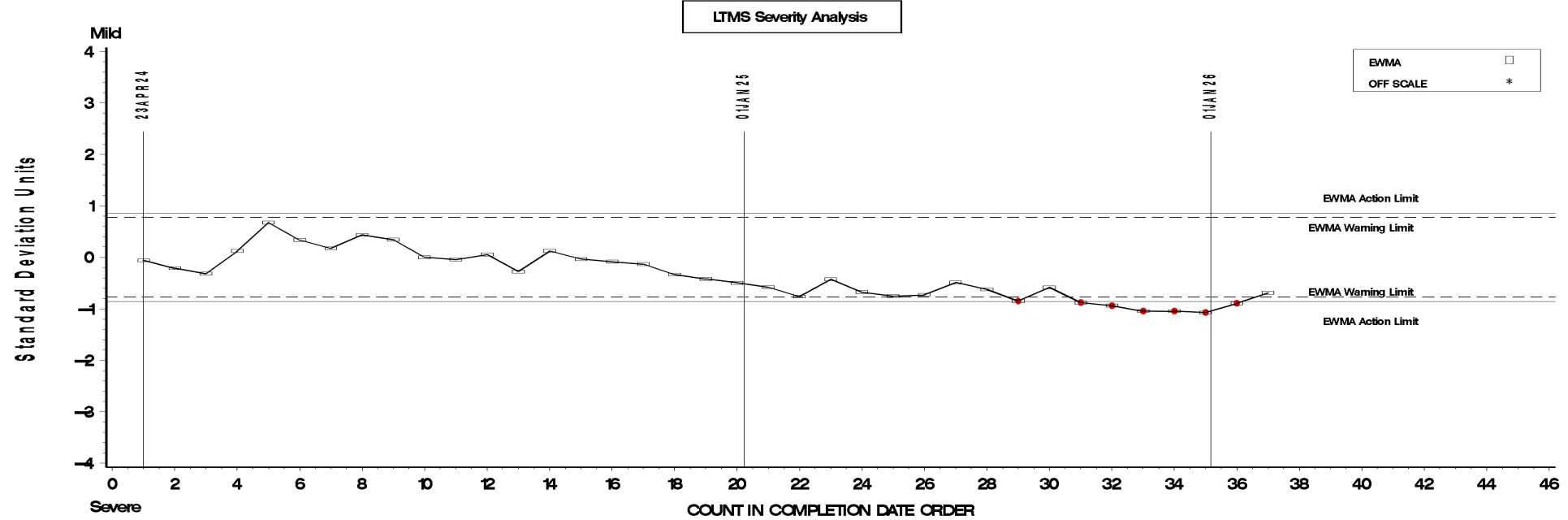
FINAL SOOT % AT 4 cSt [>]



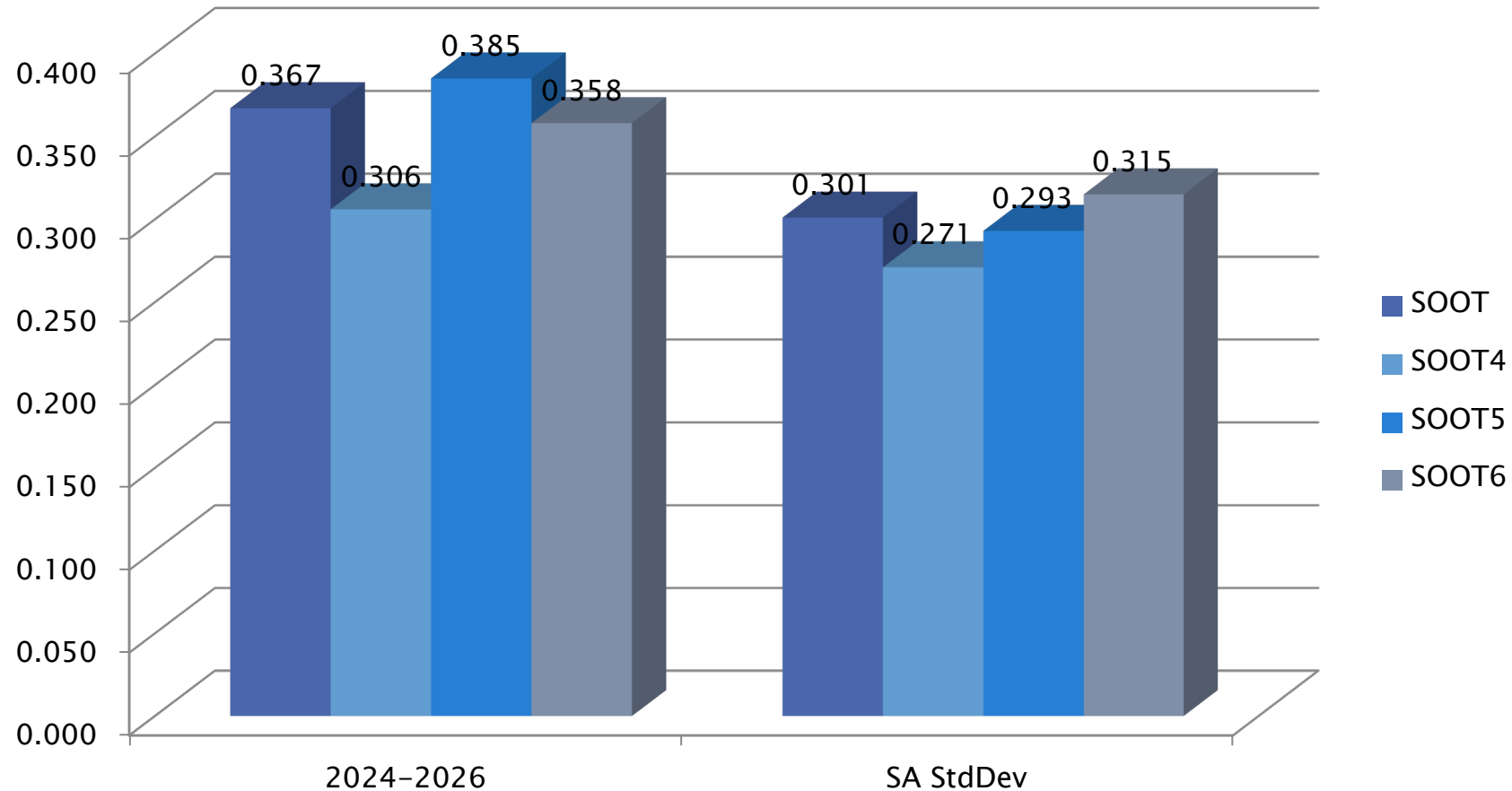
FINAL SOOT % AT 15 cSt [$>$]



FINAL SOOT % AT 6 cSt [>]

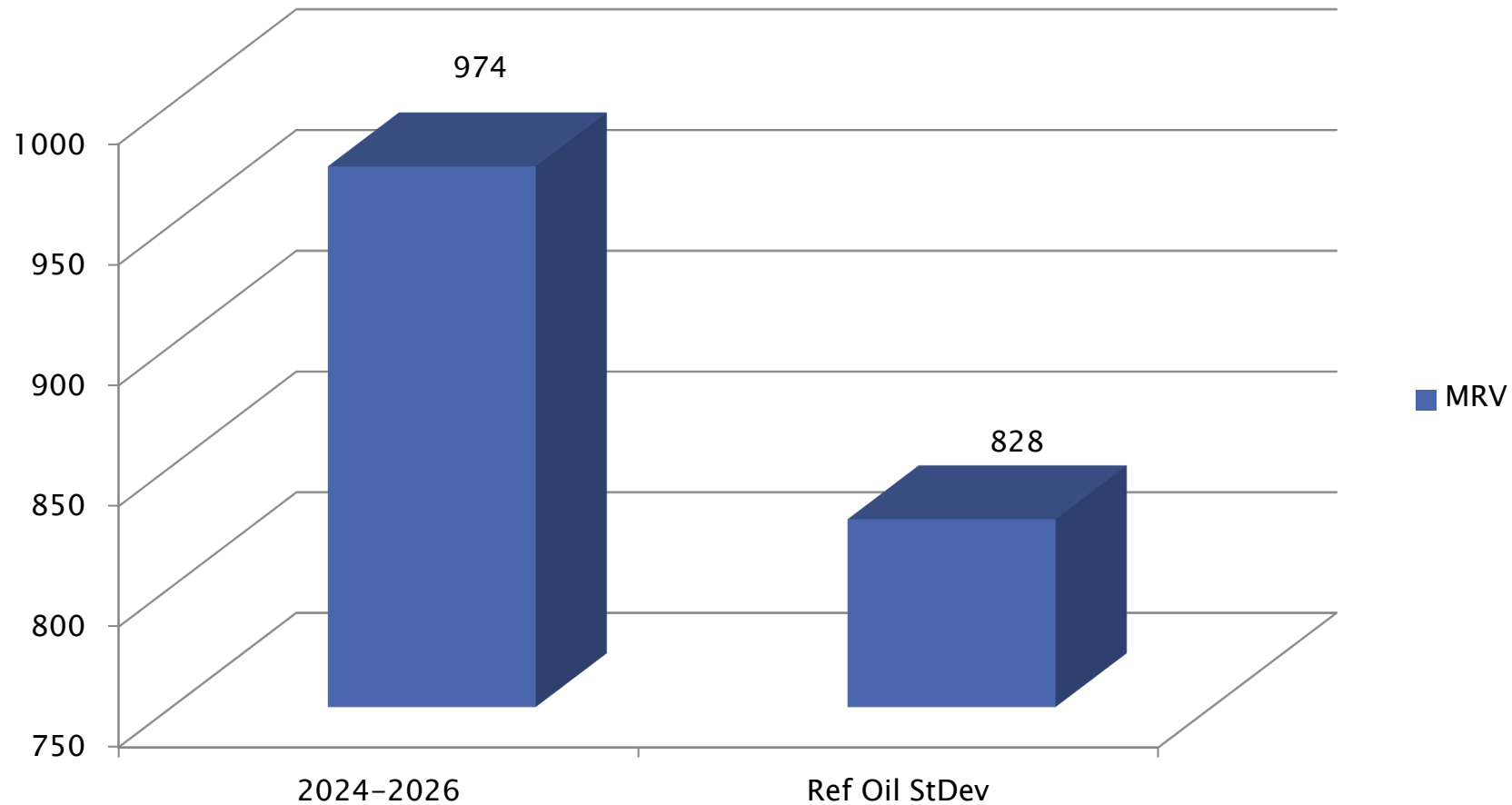


ISBV1 56 Precision Estimates



[Return to Table of Contents](#)

ISBV1 56 Precision Estimates



[Return to Table of Contents](#)

RFWT

»» April 2026

Test Monitoring Center
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RFWT Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	1
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

RFWT Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

RFWT Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

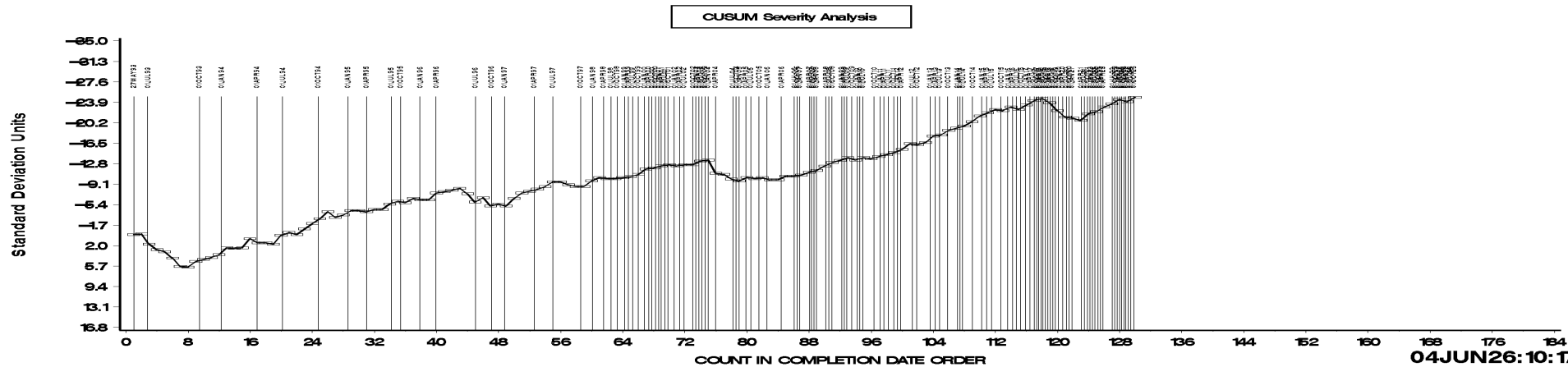
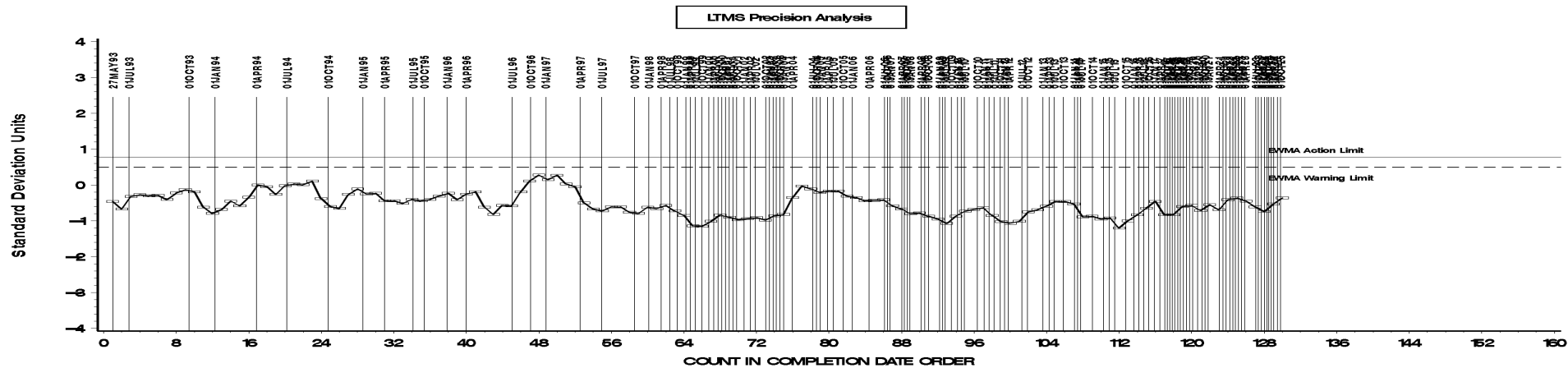
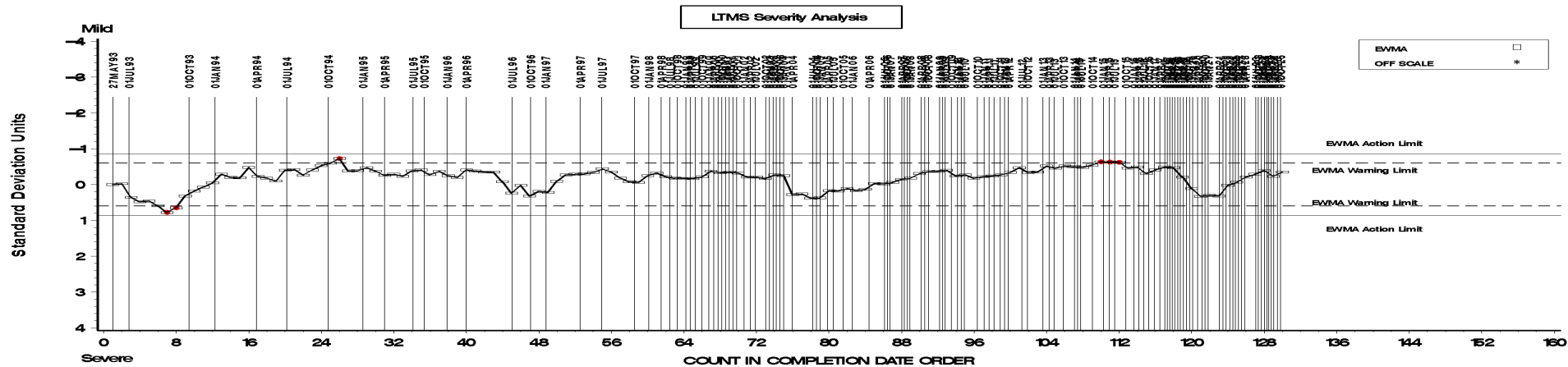
RFWT Test Severity

- ▶ AFW is in control.

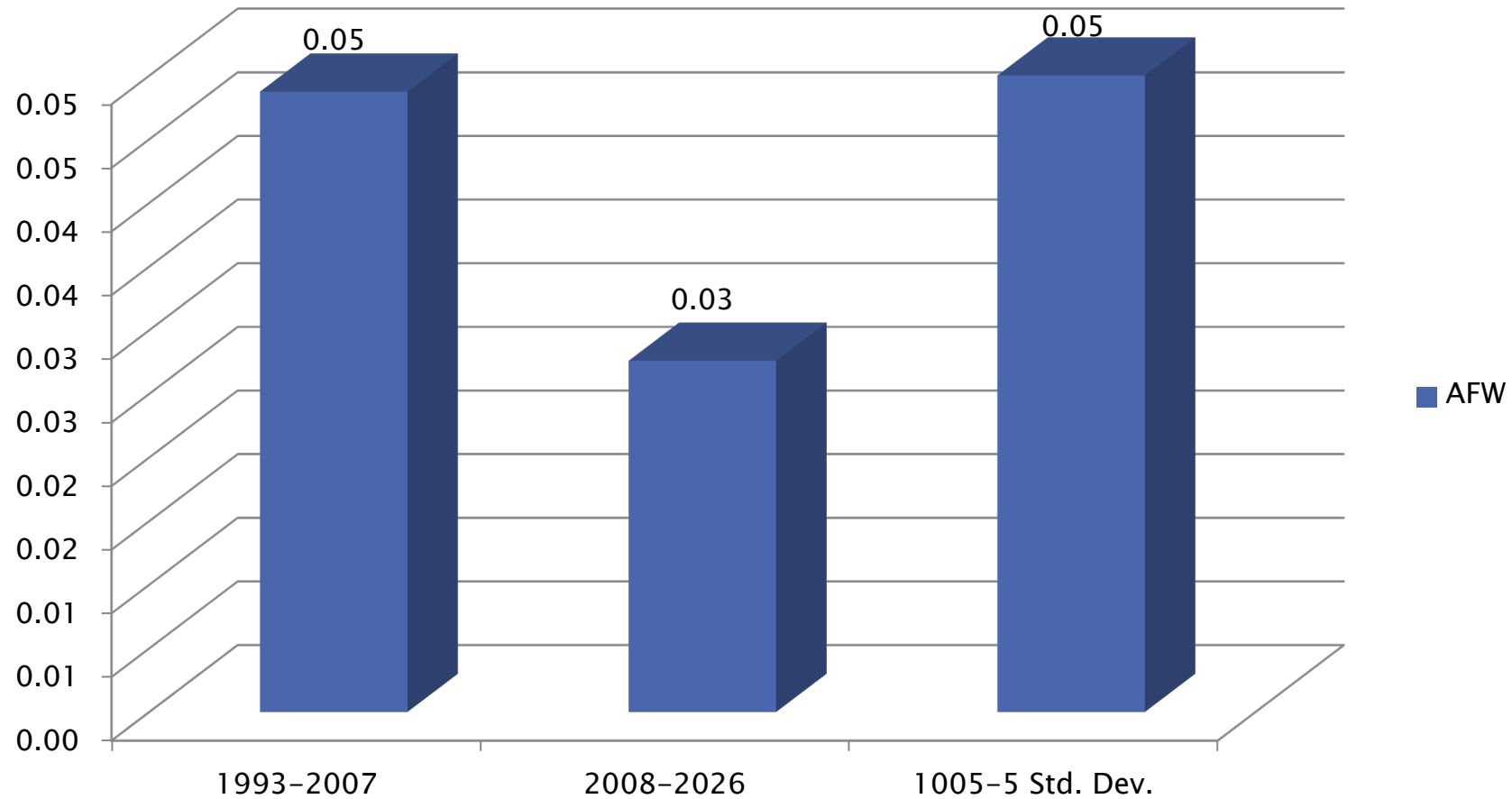
RFWT INDUSTRY OPERATIONALLY VALID DATA



Average Follower Wear



RFWT Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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Mack T-8/T-8E

»» April 2026

Test Monitoring Center
<https://www.astmtmc.org>



A Program of ASTM International

T-8/T-8E Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	2
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	2
Total		4

T-8/T8-E Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

T-8/T8-E Lost Tests*

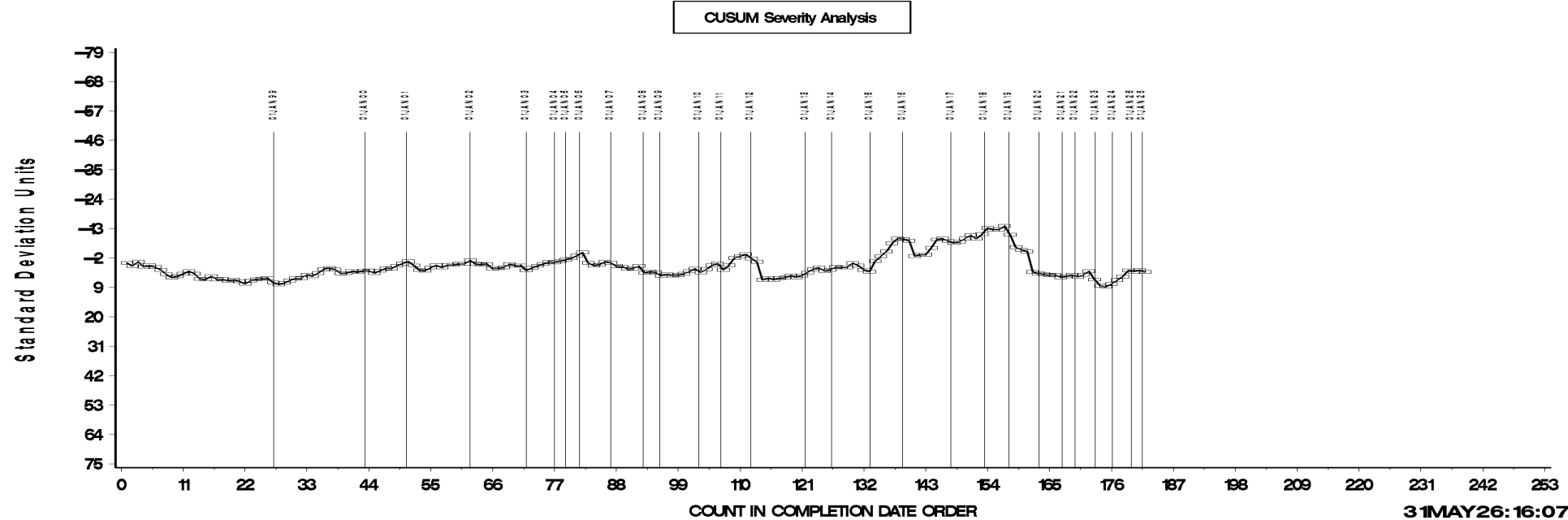
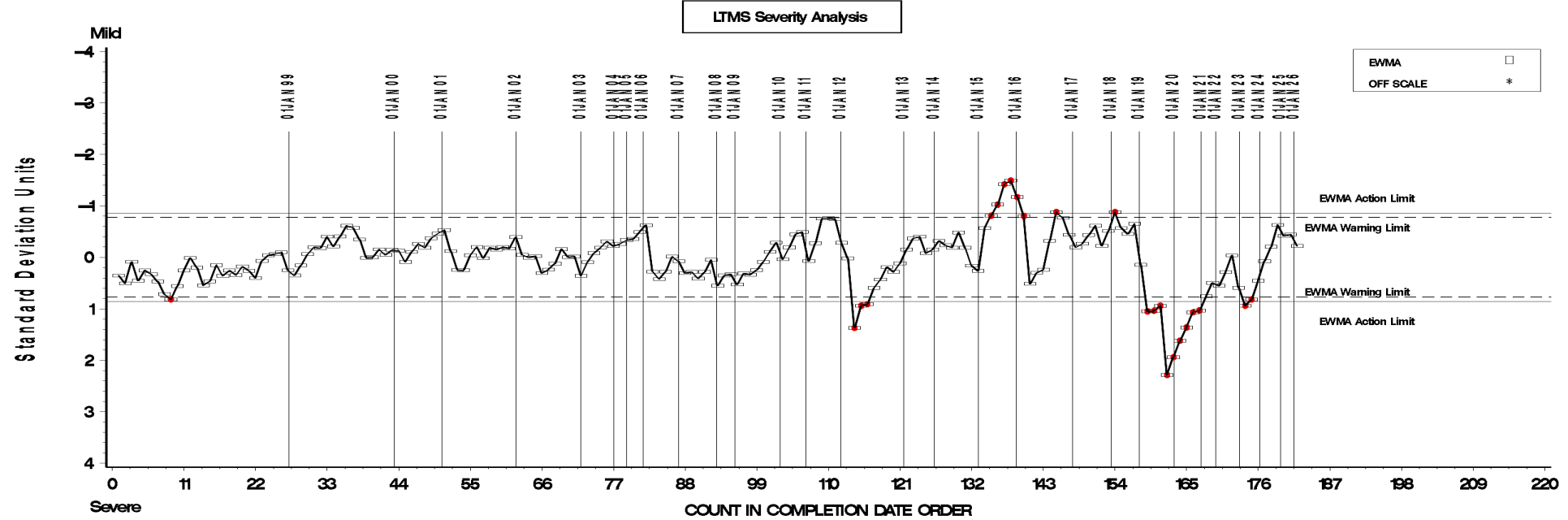
Status	Cause	#
Invalid	No invalid tests	0
Aborted	Missed soot window	2
Total		2

*Invalid and aborted tests

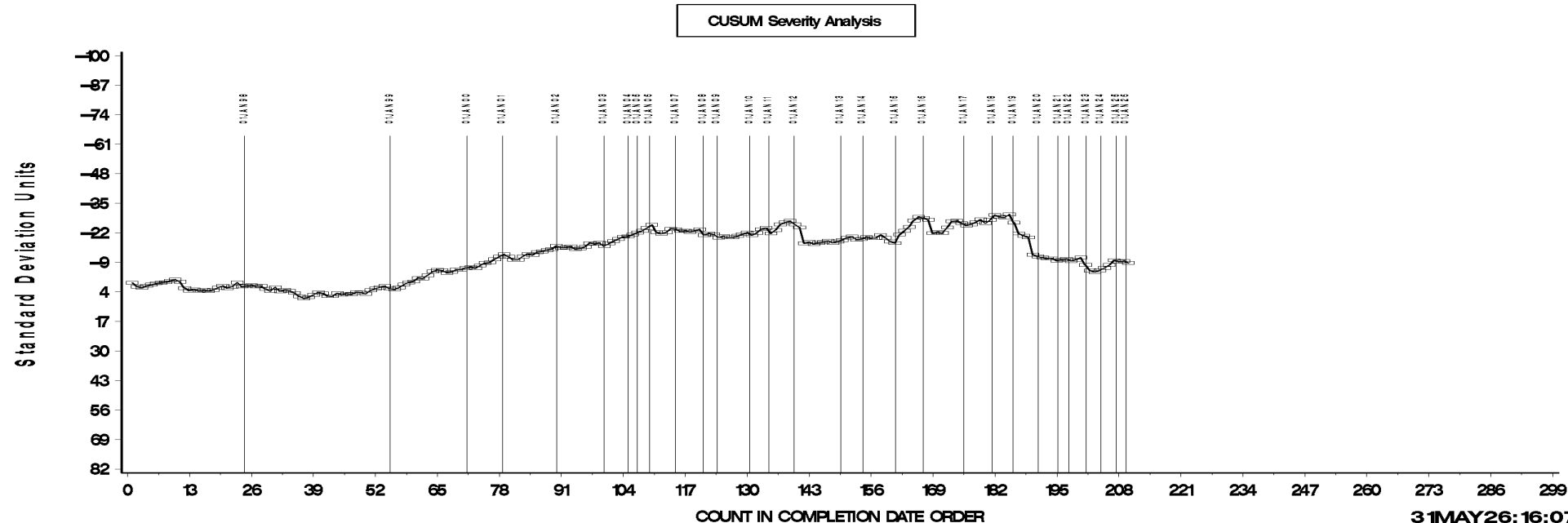
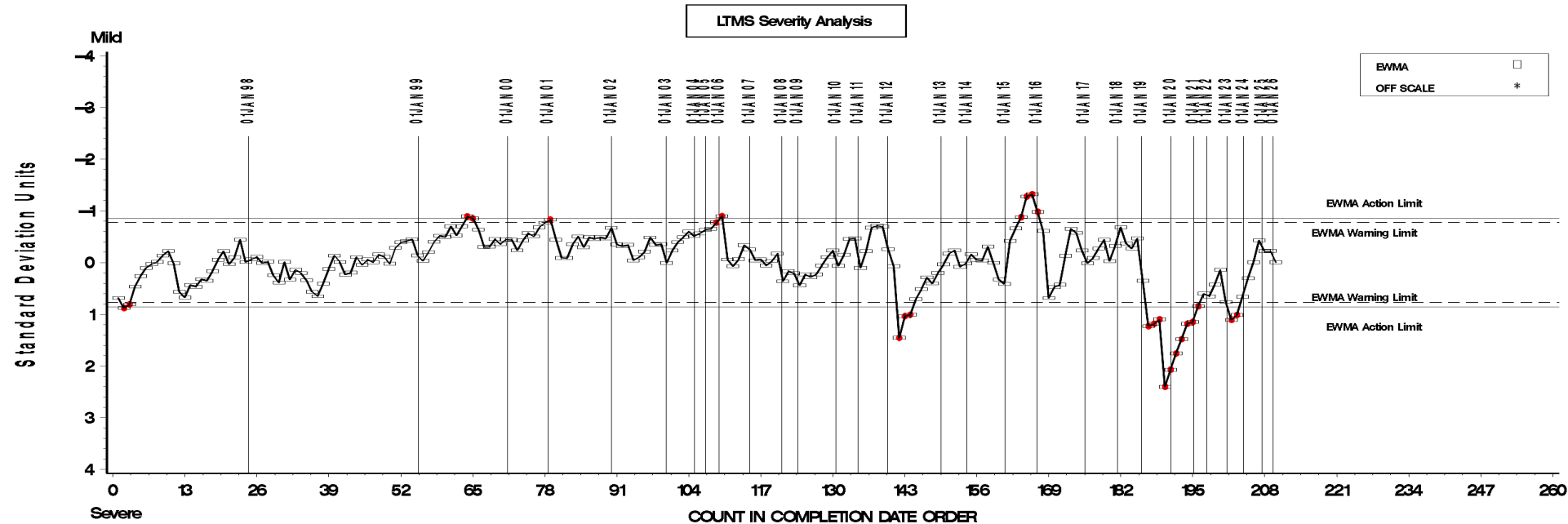
T-8/T-8E Test Severity

- ▶ VI38 is in level 2 Zi alarm in mild direction.
- ▶ RV2 and RV48 are in control.

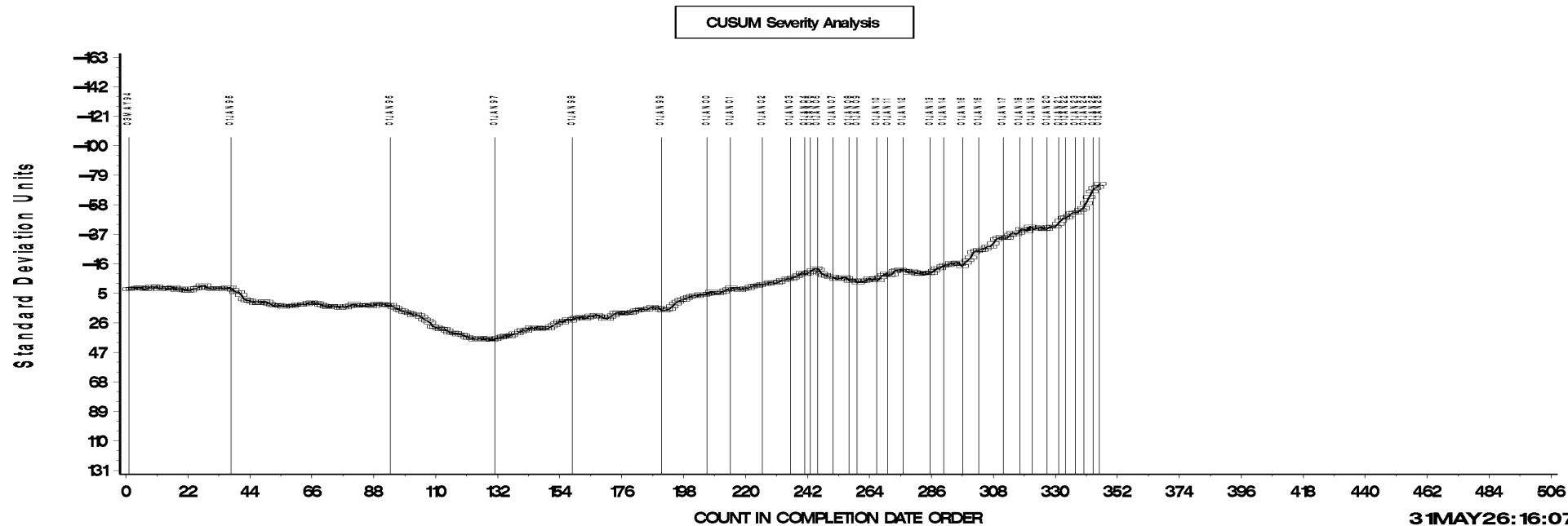
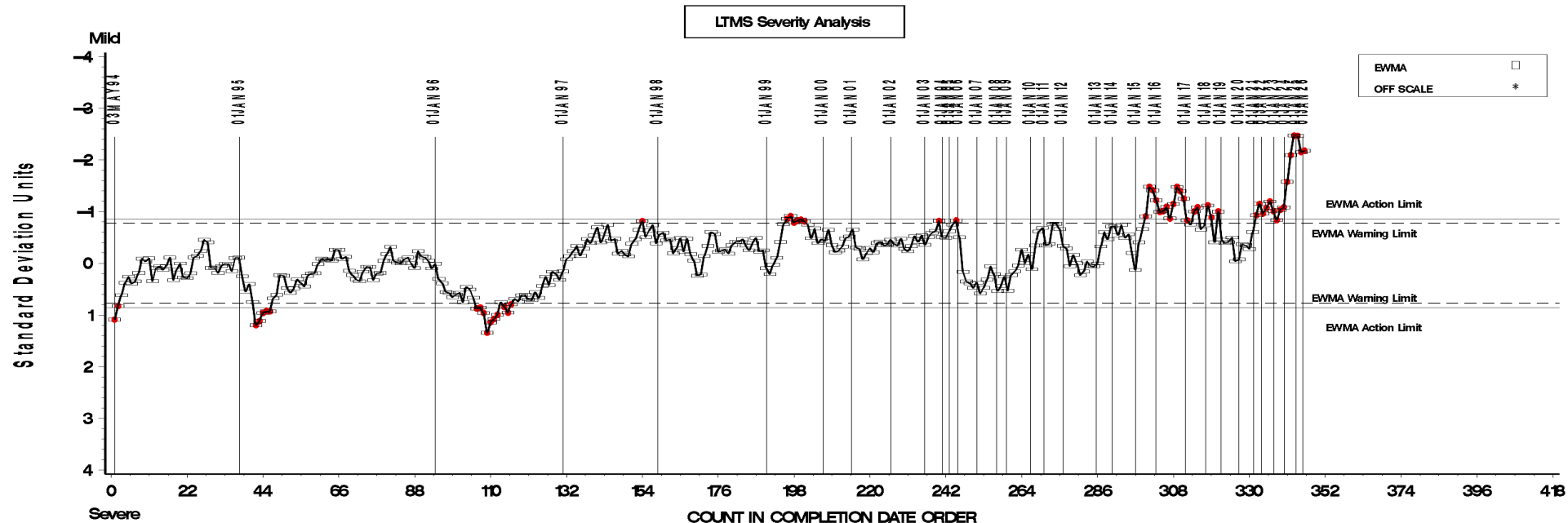
RELATIVE VISCOSITY @ 4.8% (100% LOSS)



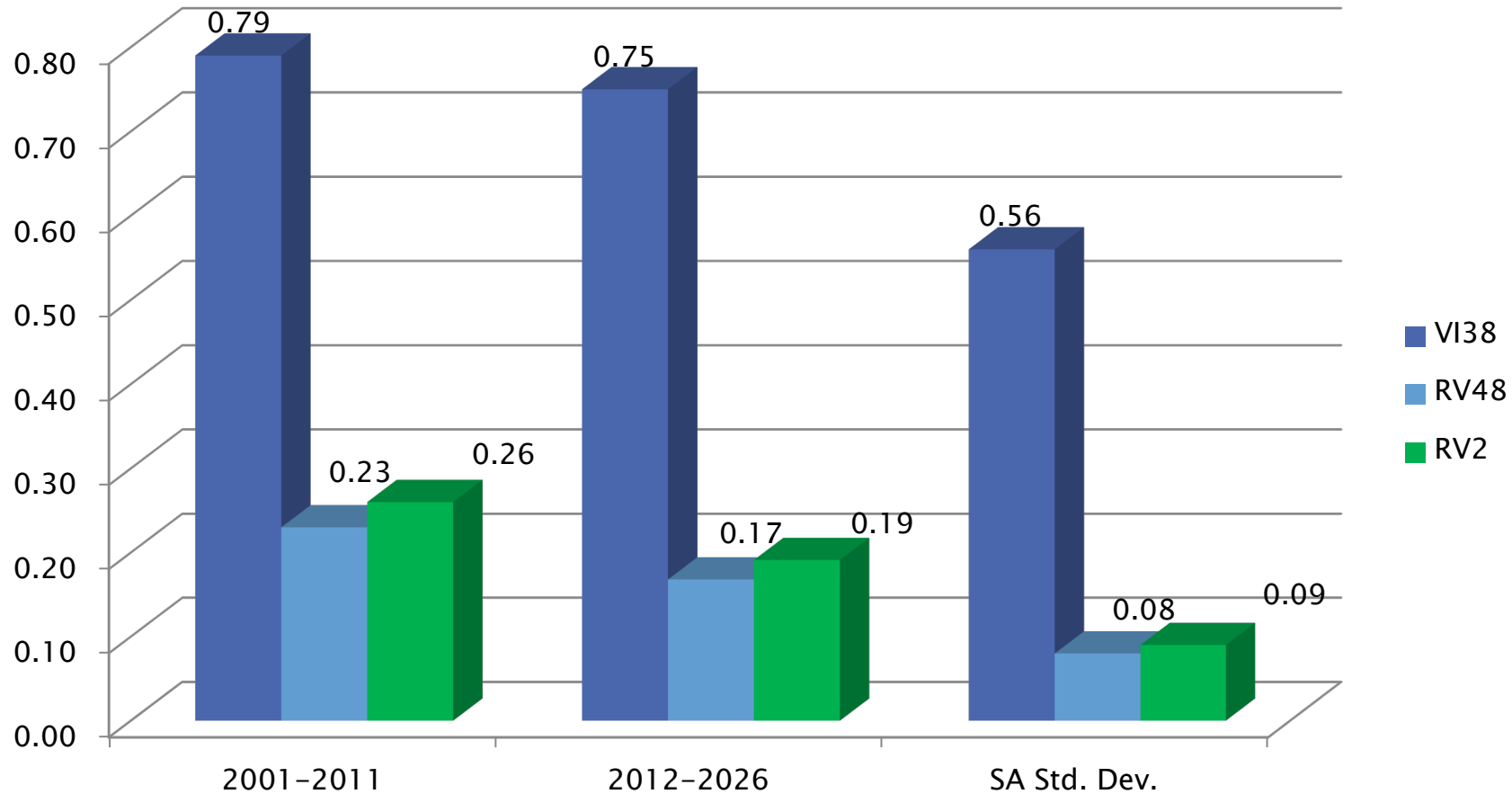
RELATIVE VISCOSITY @ 4.8% (50% LOSS)



VISCOSITY INCR @ 3.8% SOOT



T-8/E Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
<https://www.astmtmc.org>



Mack T-11

»» April 2026

T-11 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	1
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		1

T-11 Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

T-11 Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

T-11 Test Severity

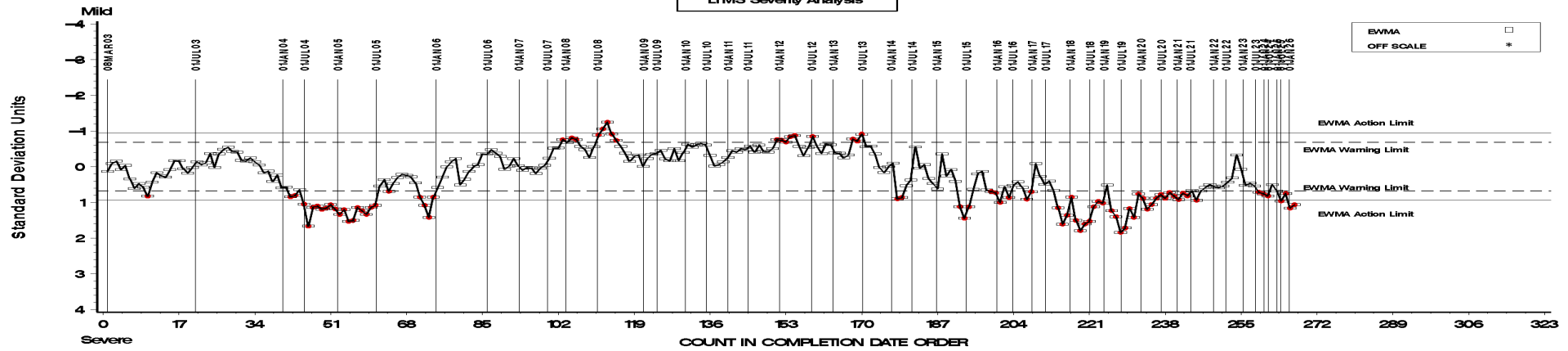
- ▶ SOOT and SOOT5 are in control.
- ▶ SOOT4 and MRV are in severity action alarm in the severe direction.
- ▶ SOOT4 is in precision action alarm.
- ▶ MRV is in precision warning alarm.

T-11 INDUSTRY OPERATIONALLY VALID DATA

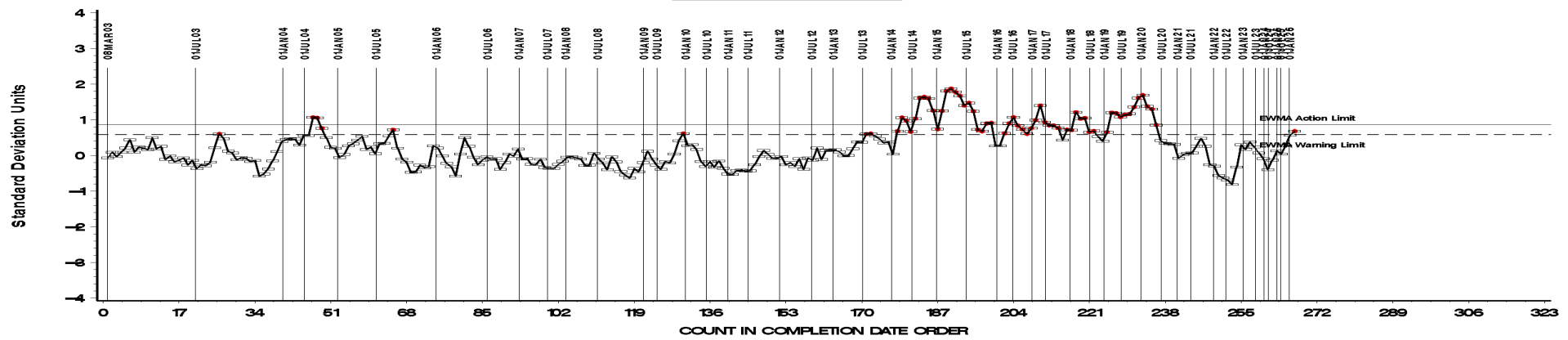


MRV VISCOSITY

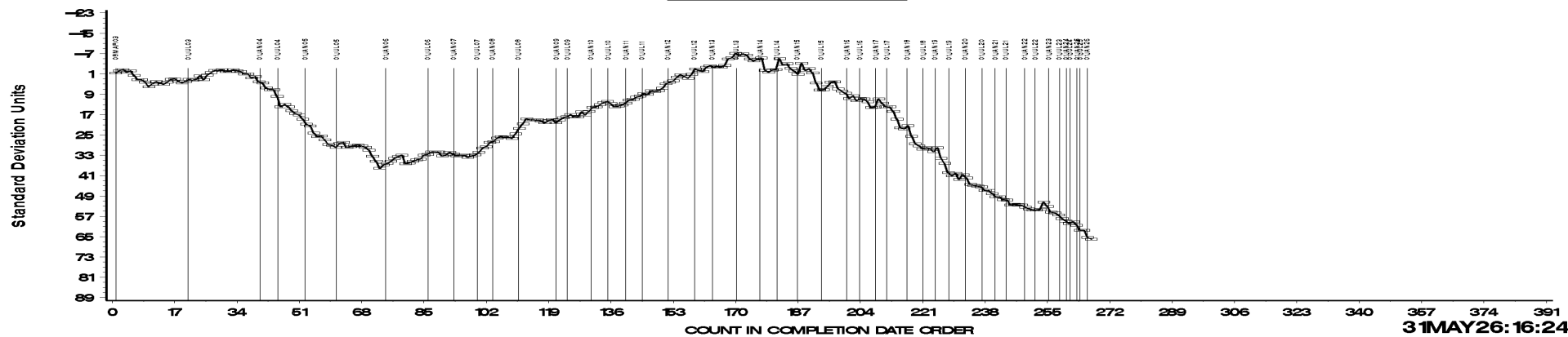
LTMS Severity Analysis



LTMS Precision Analysis



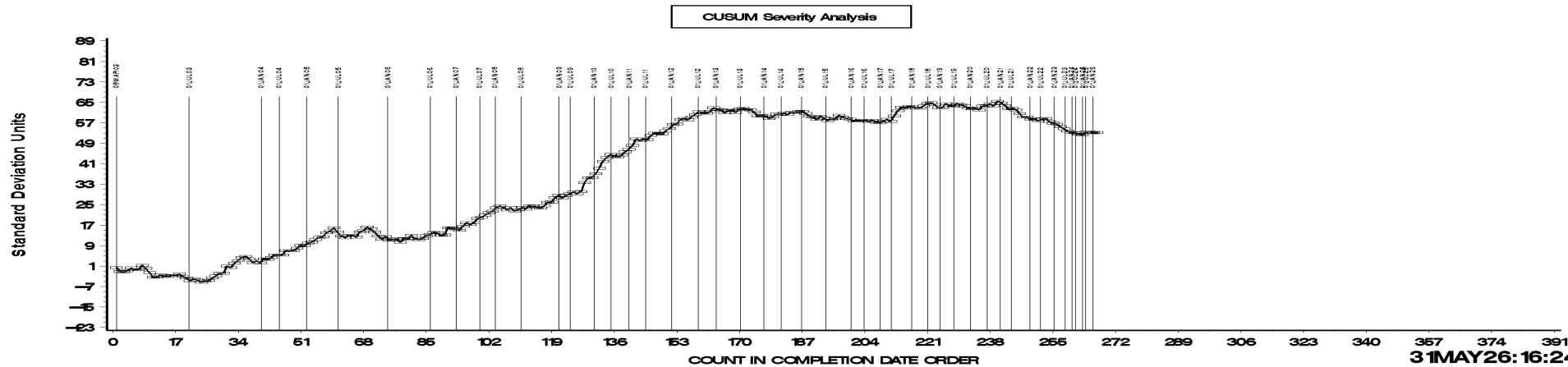
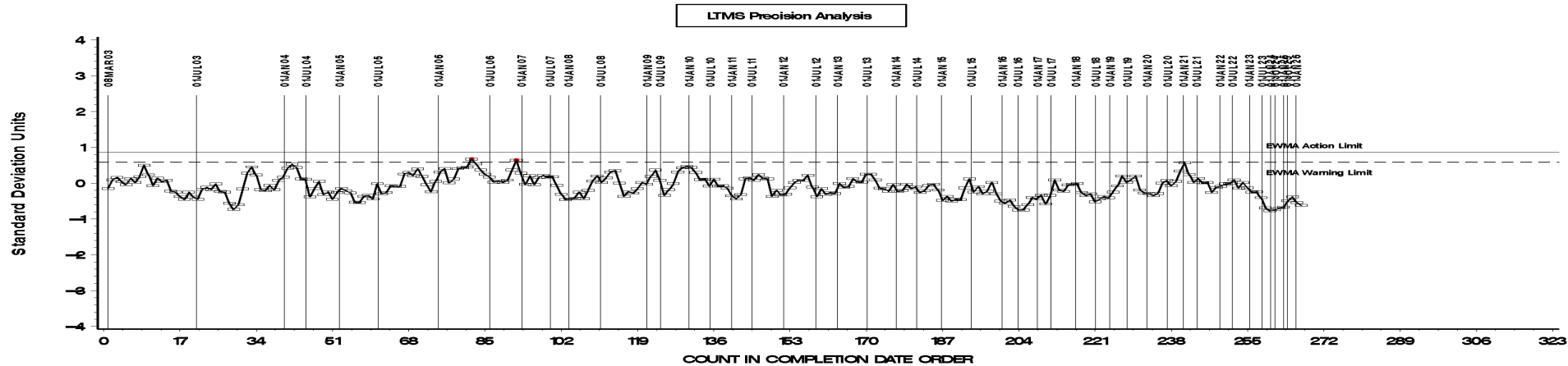
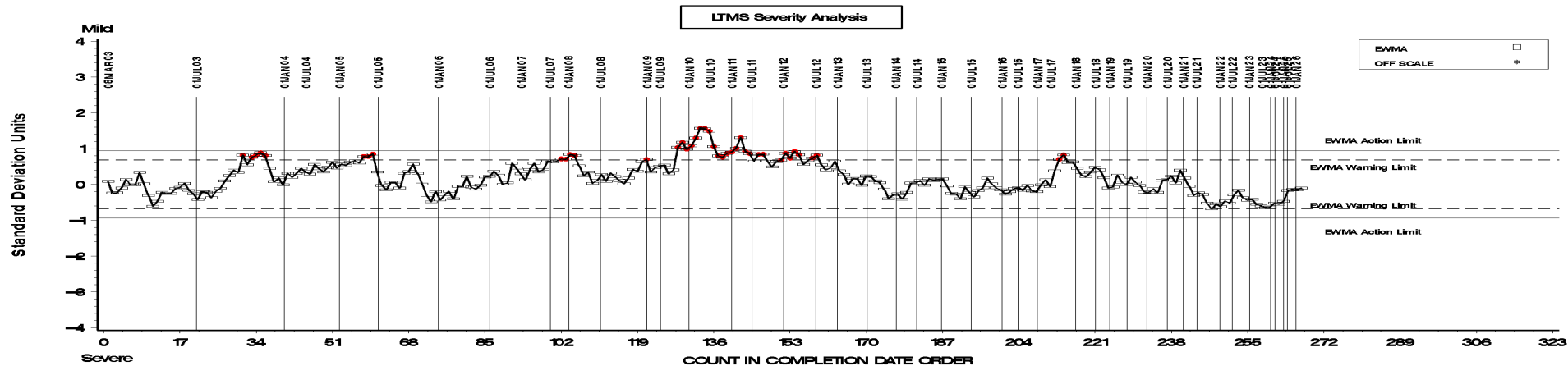
CUSUM Severity Analysis



T-11 INDUSTRY OPERATIONALLY VALID DATA



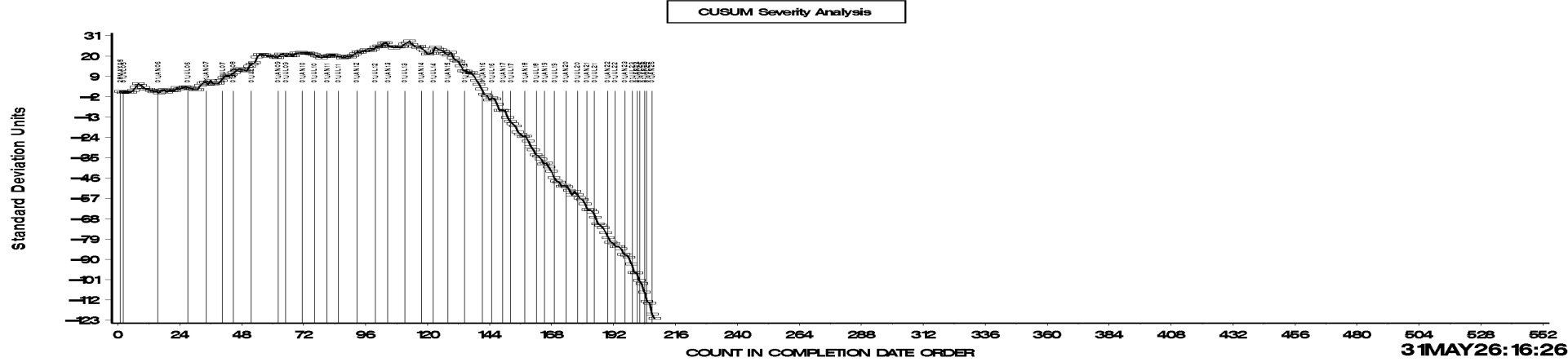
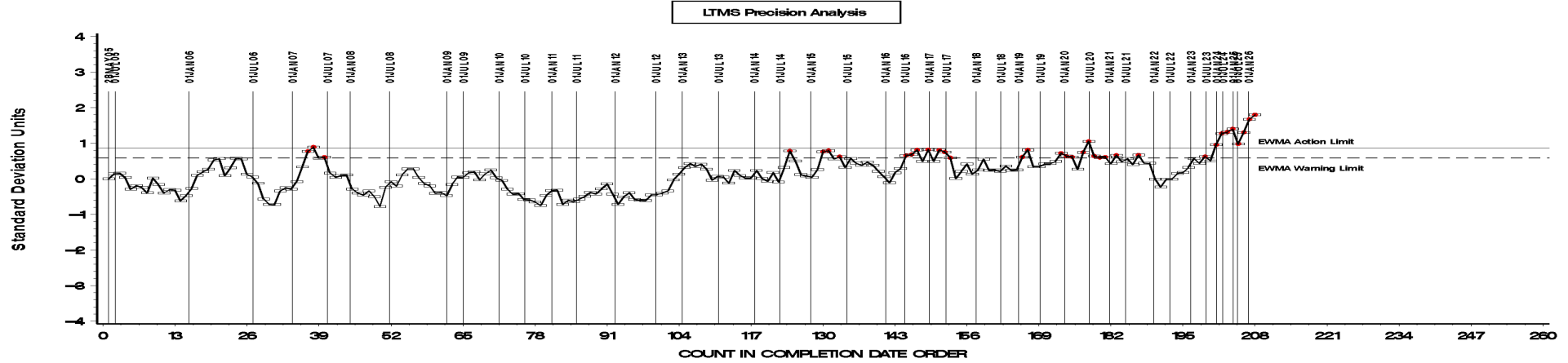
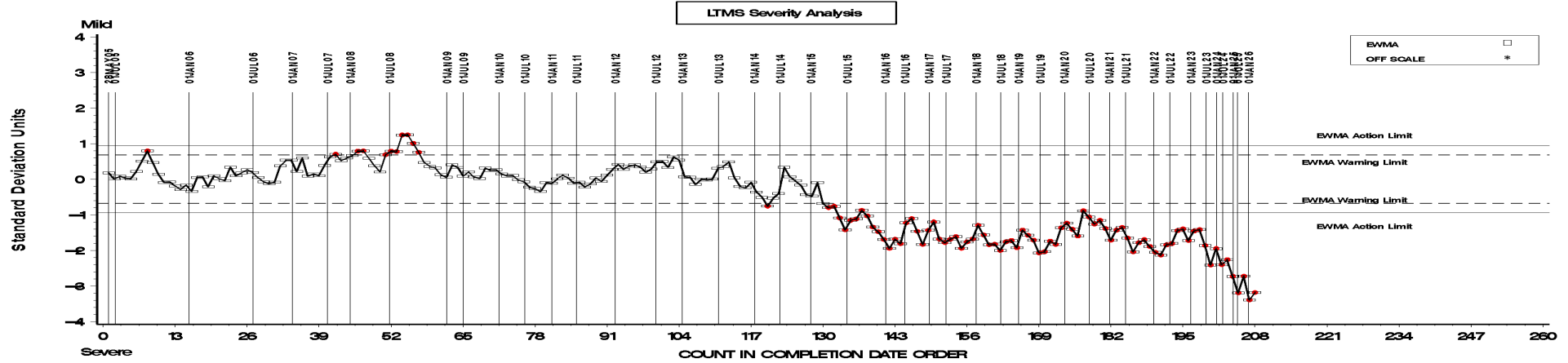
SOOT AT 12 cSt



T-11 INDUSTRY OPERATIONALLY VALID DATA



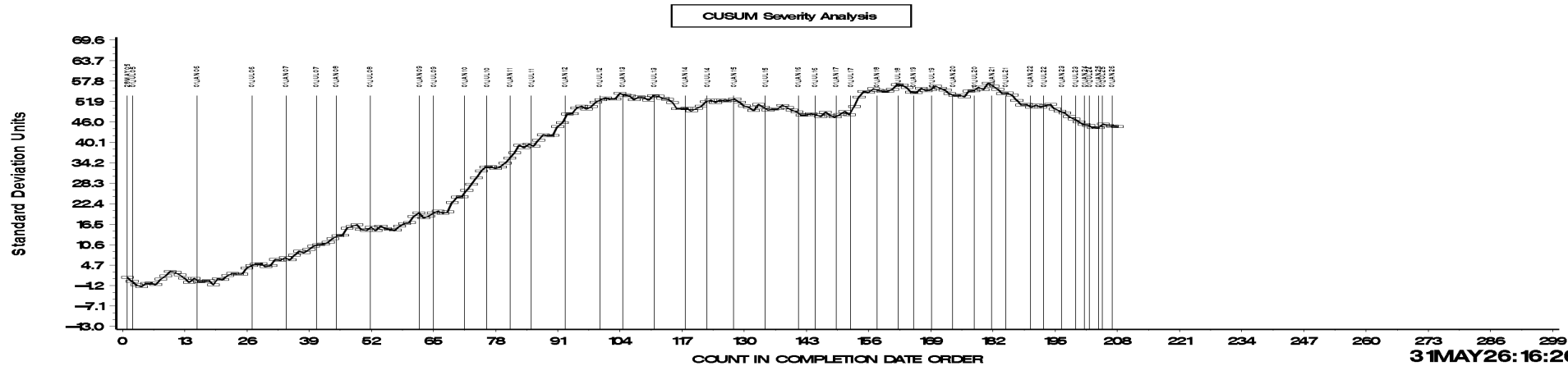
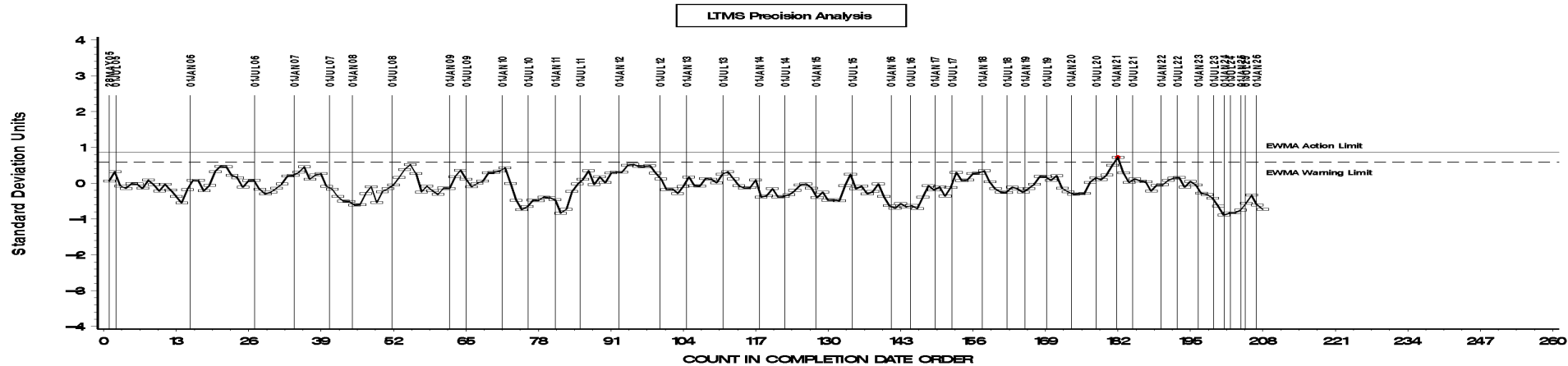
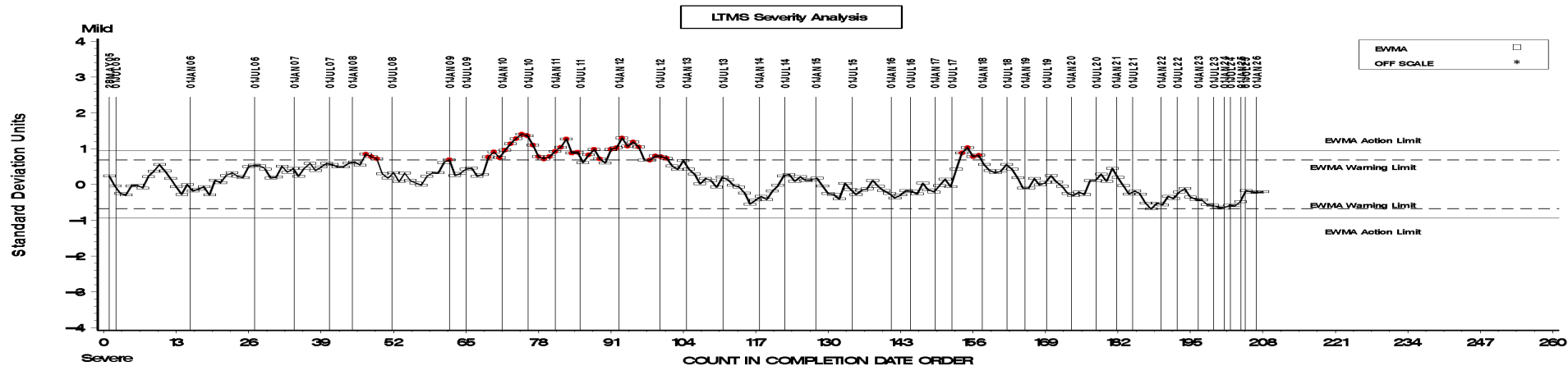
SOOT @ 4 cSt — FINAL RESULT



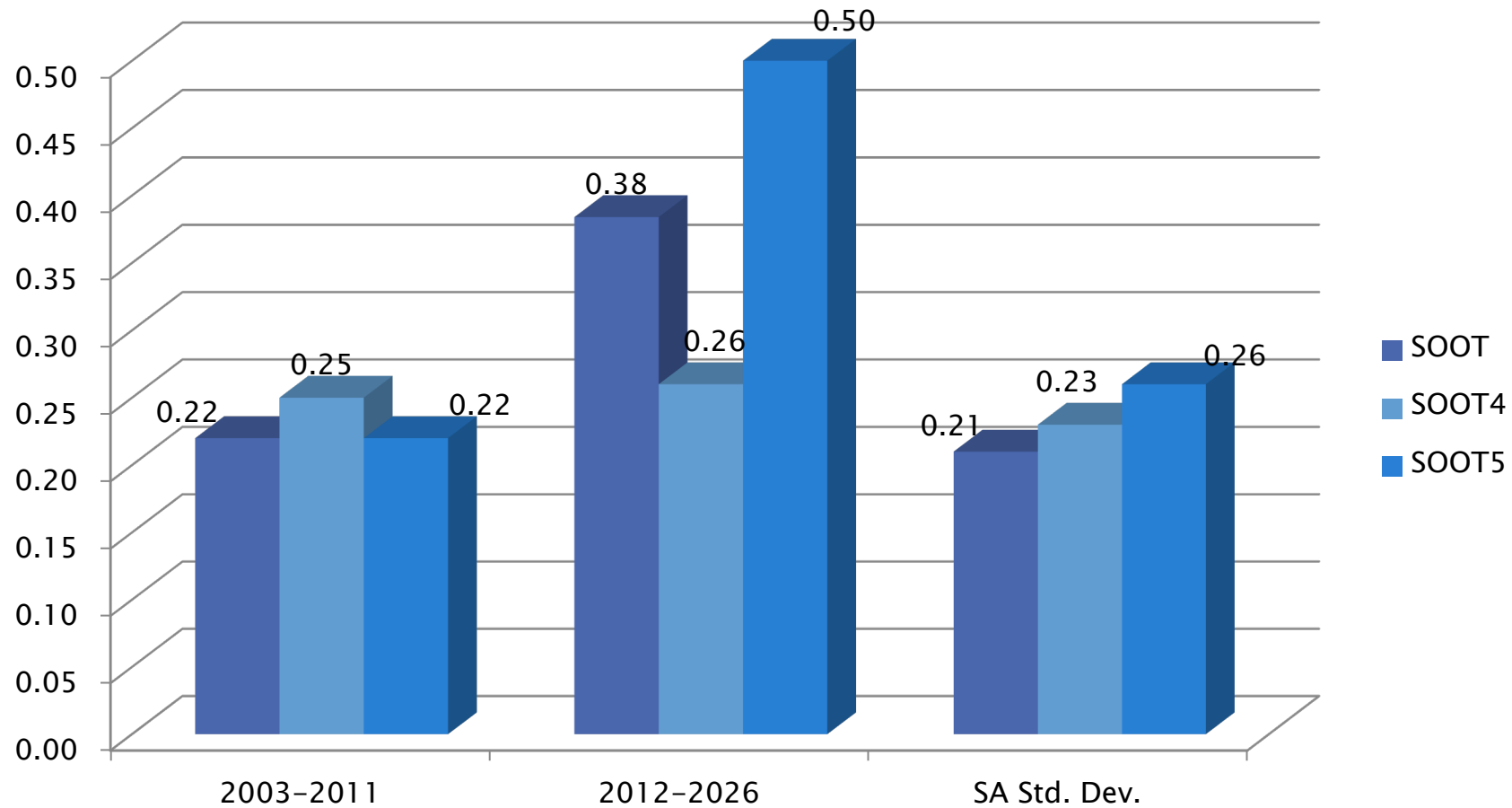
T-11 INDUSTRY OPERATIONALLY VALID DATA



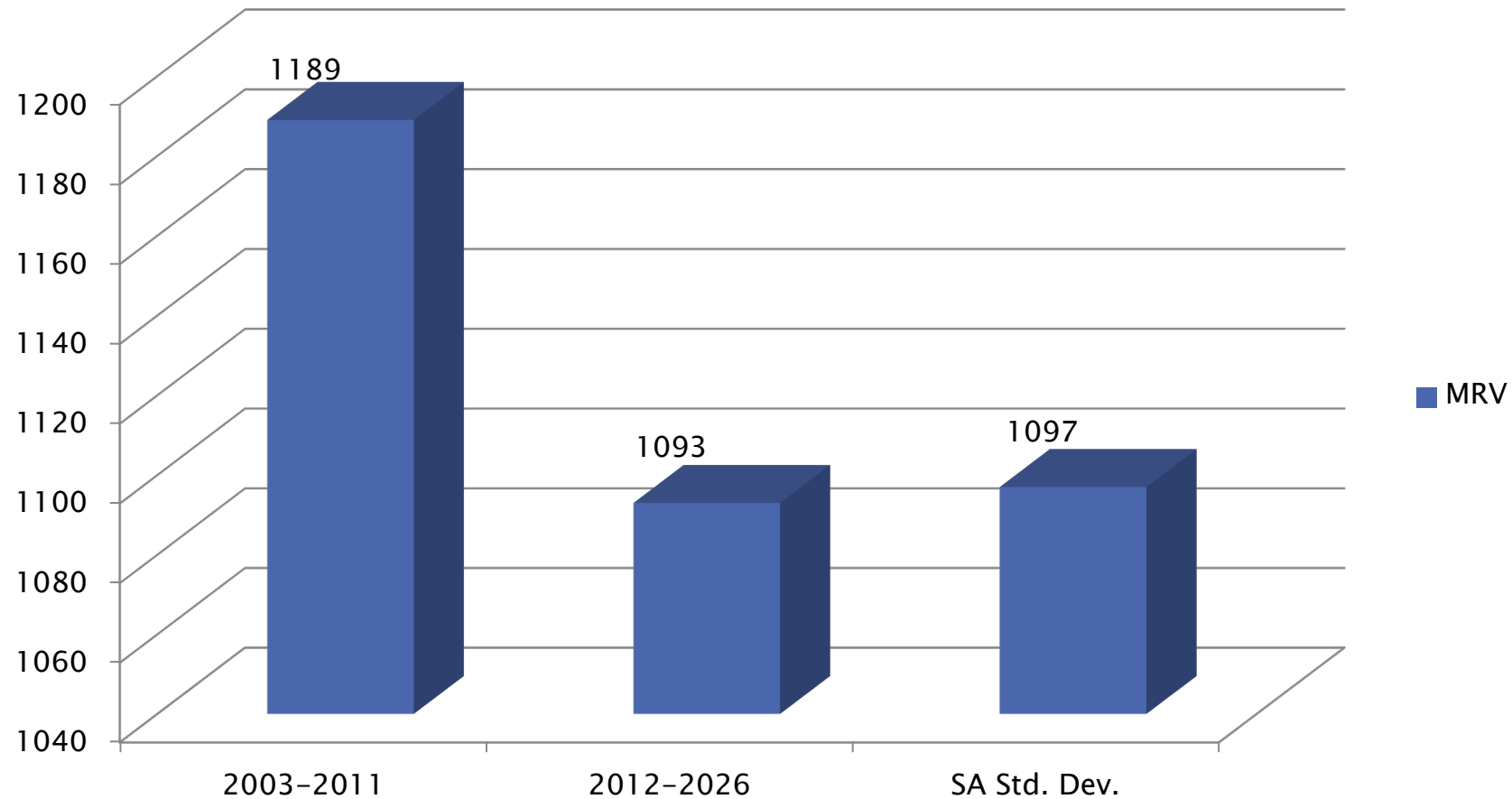
SOOT @ 15 cSt — FINAL RESULT



T-11 Precision Estimates



T-11 Precision Estimates



[Return to Table of Contents](#)

Test Monitoring Center
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Mack T-12

»» April 2026

T-12 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

T-12 Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

T-12 Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

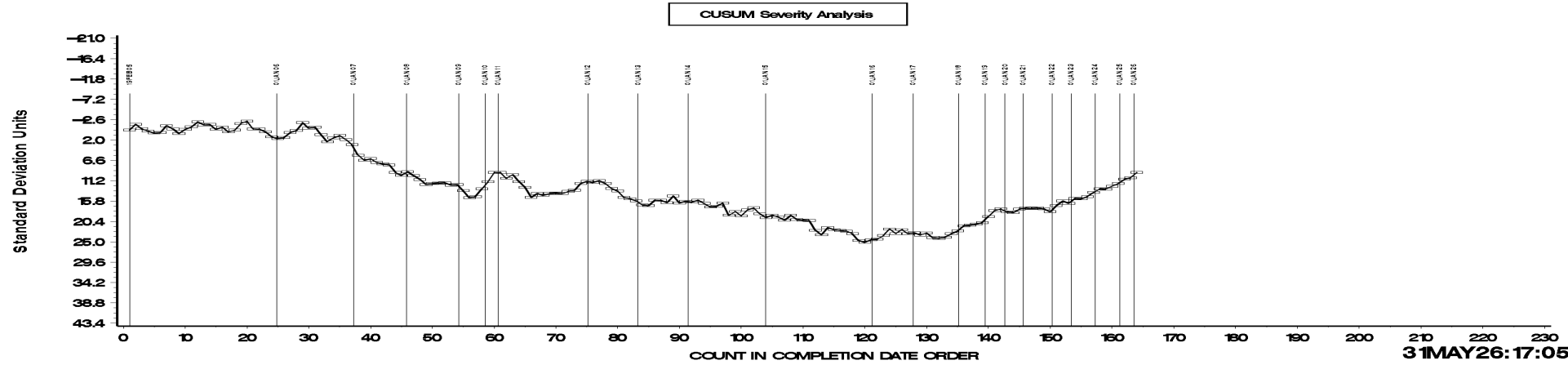
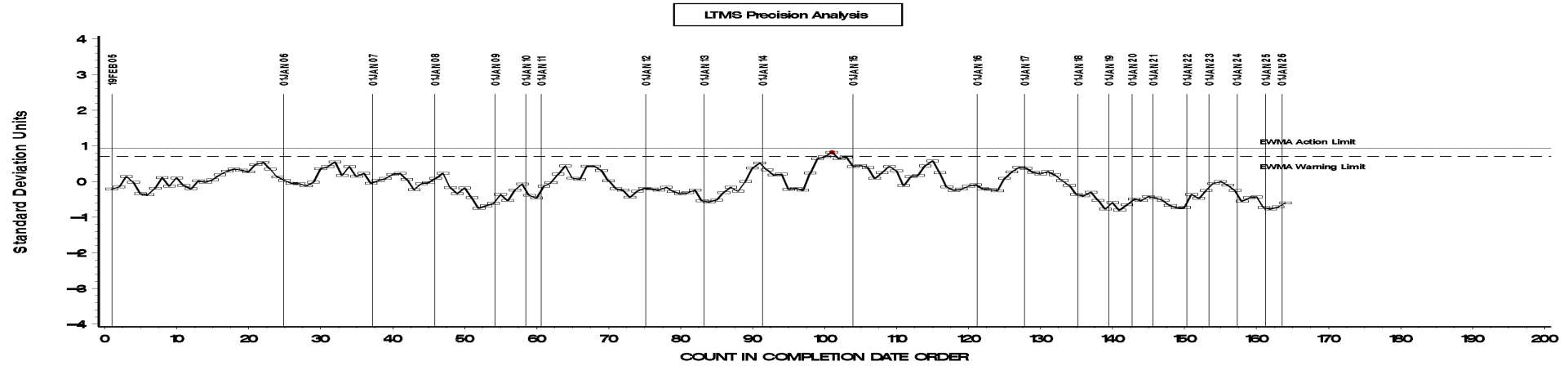
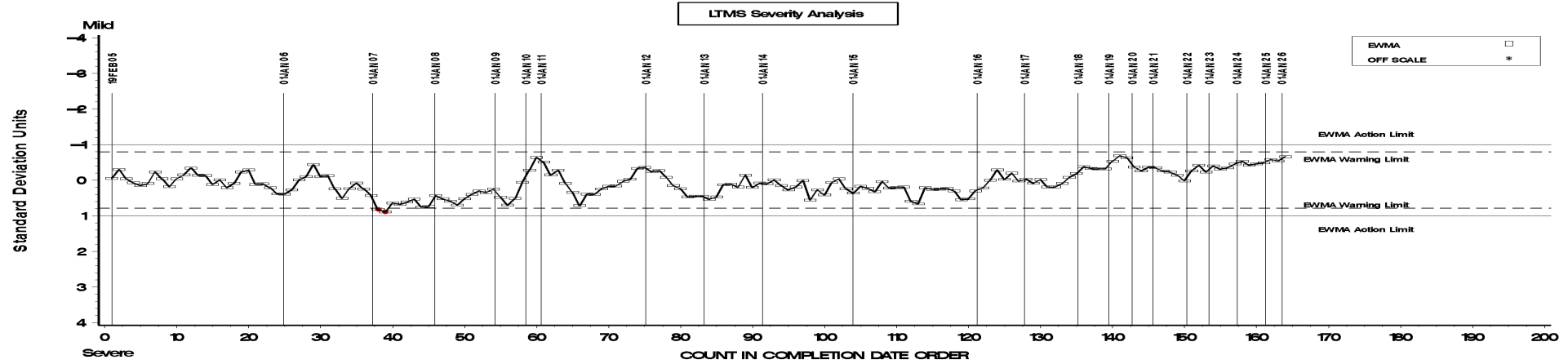
T-12 Test Severity

- ▶ Since no tests were run during this reporting period, no statement about test severity can be made.

MACK T-12 INDUSTRY OPERATIONALLY VALID DATA



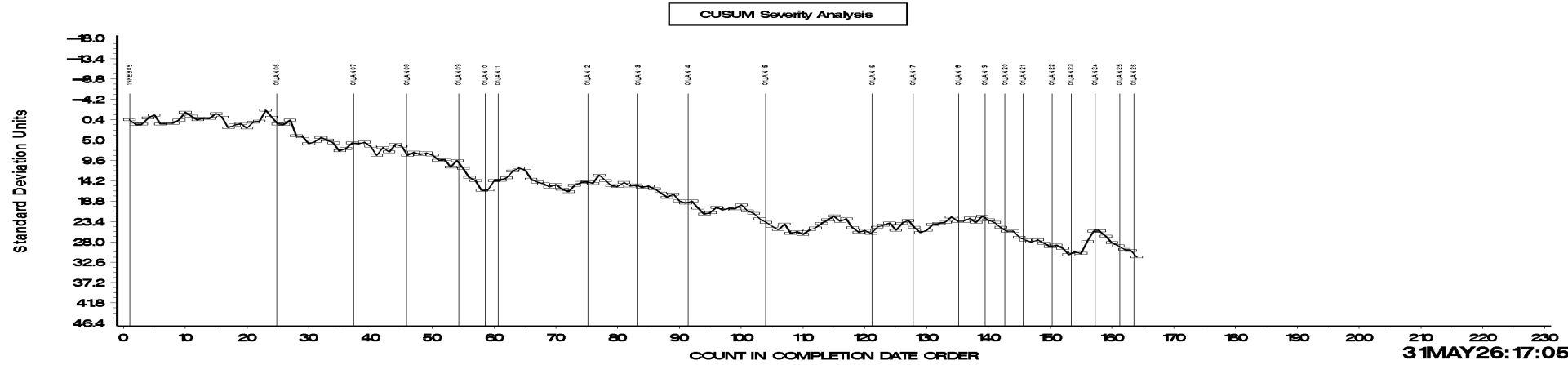
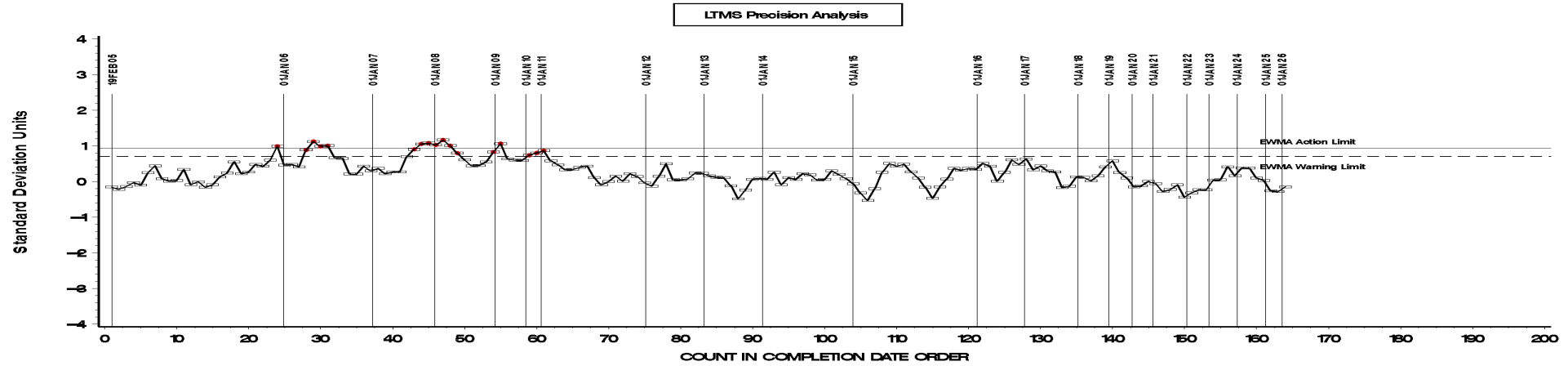
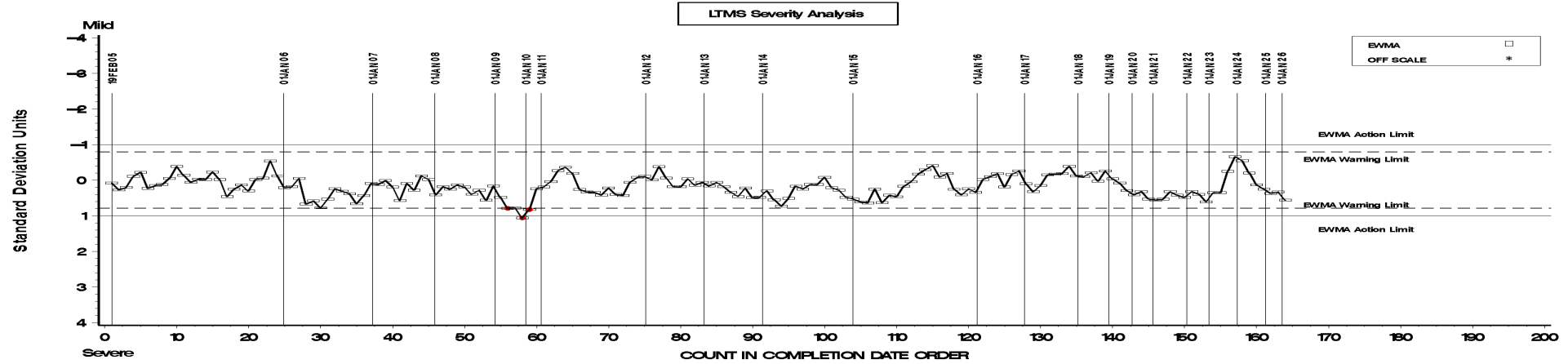
AVG. CYLINDER LINER WEAR (CLW)



MACK T-12 INDUSTRY OPERATIONALLY VALID DATA



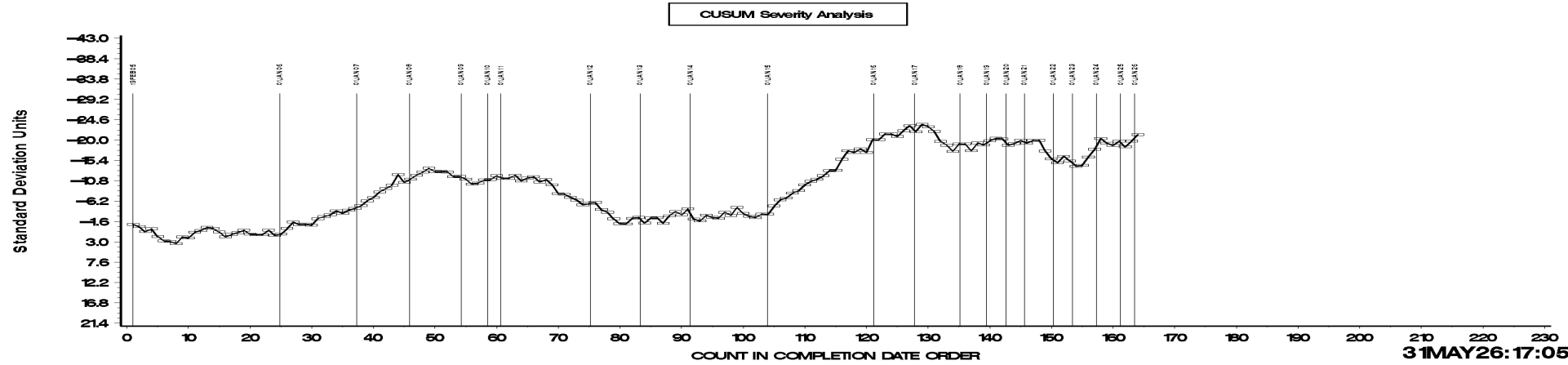
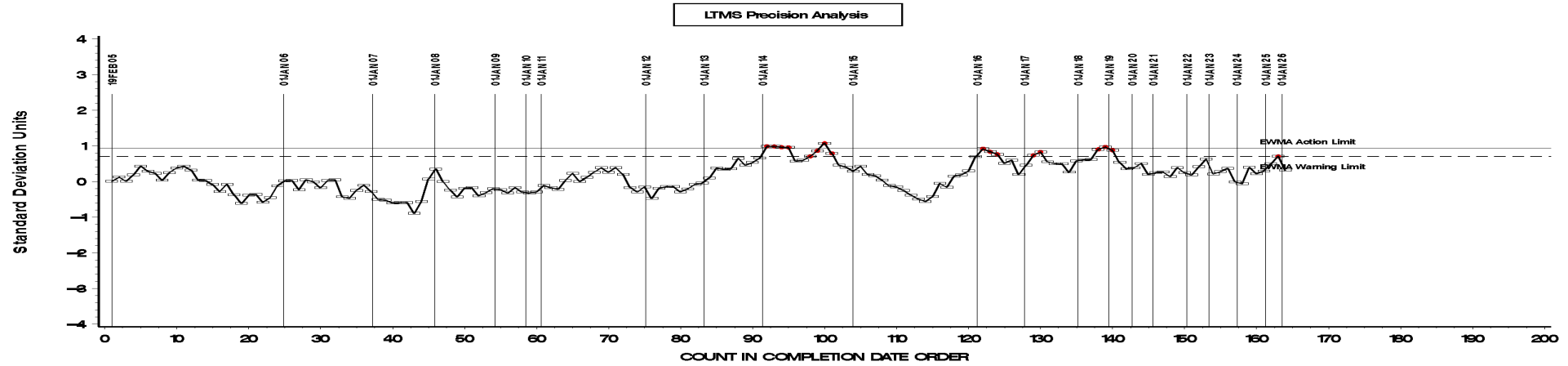
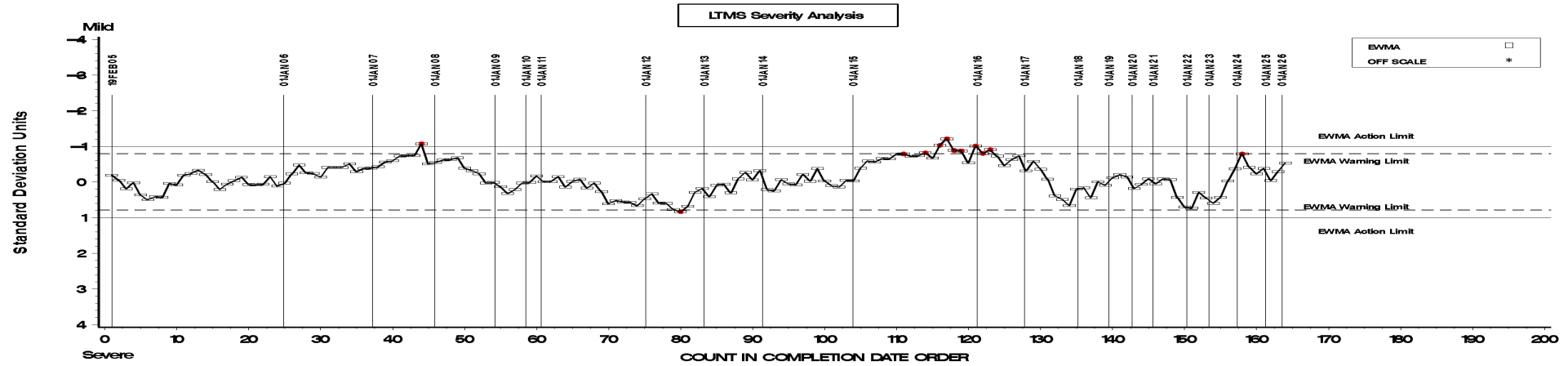
FINAL TRANS. RES. OIL CONSUMPTION



MACK T-12 INDUSTRY OPERATIONALLY VALID DATA



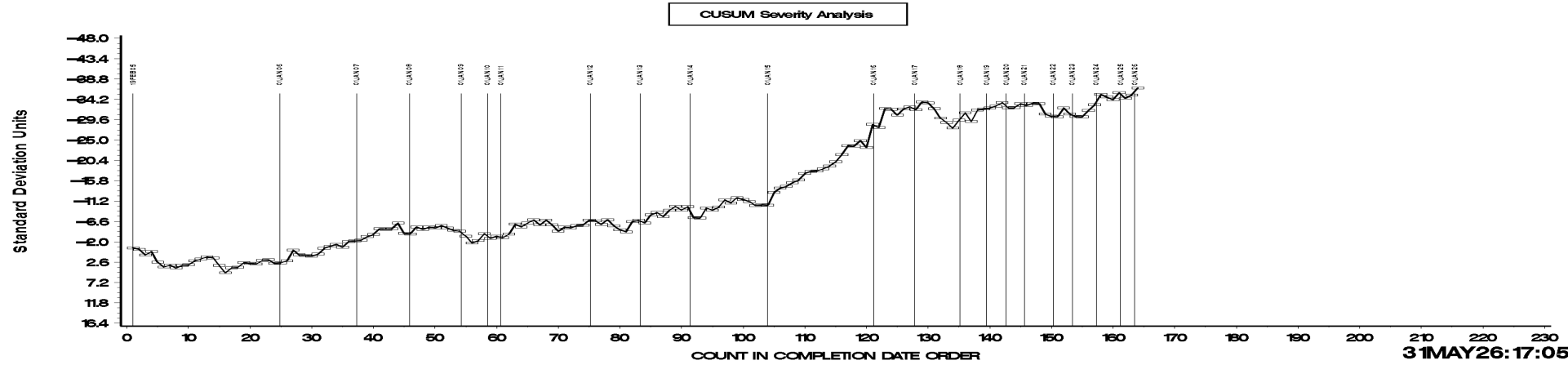
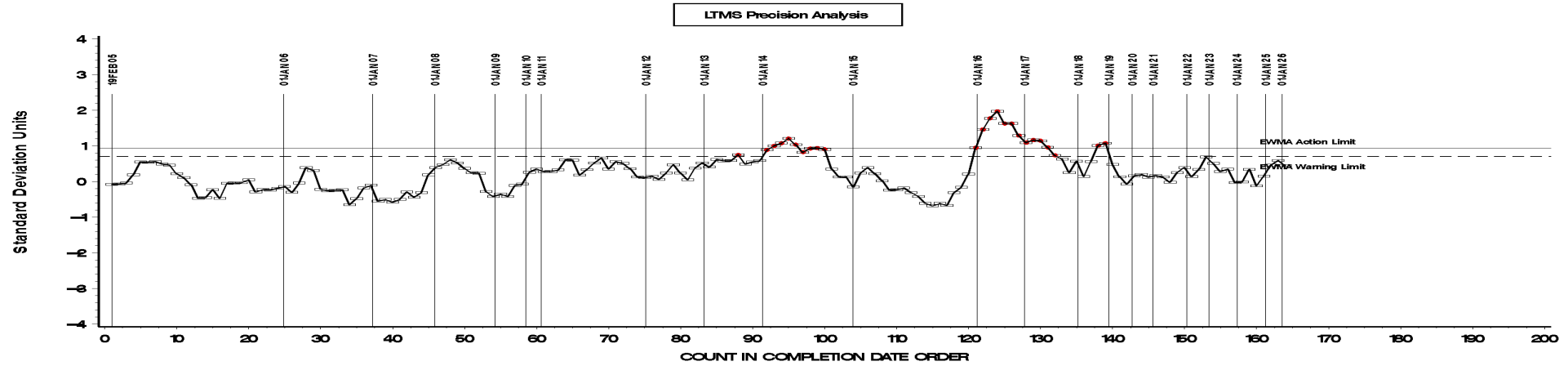
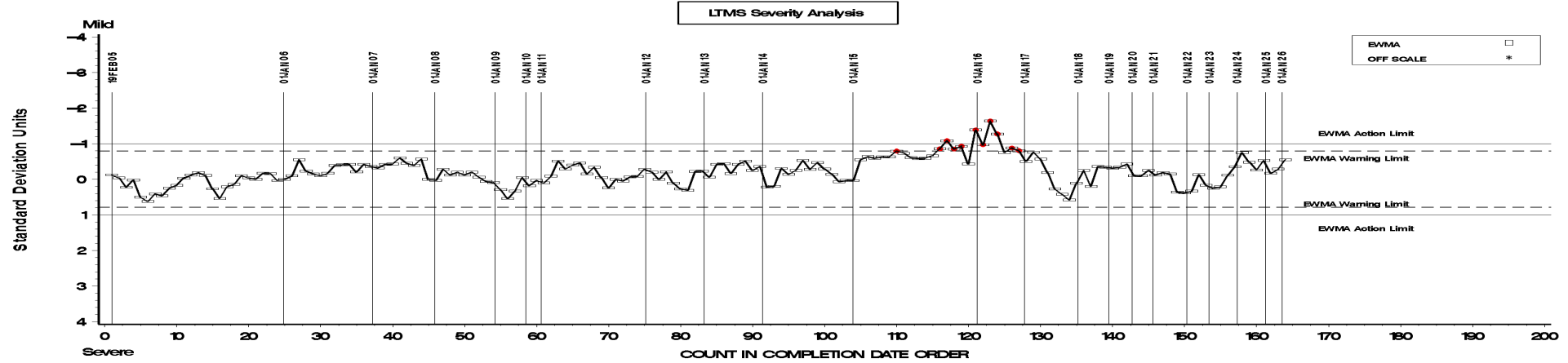
FINAL TRANS. RES. DELTA PB @ EOT



MACK T-12 INDUSTRY OPERATIONALLY VALID DATA



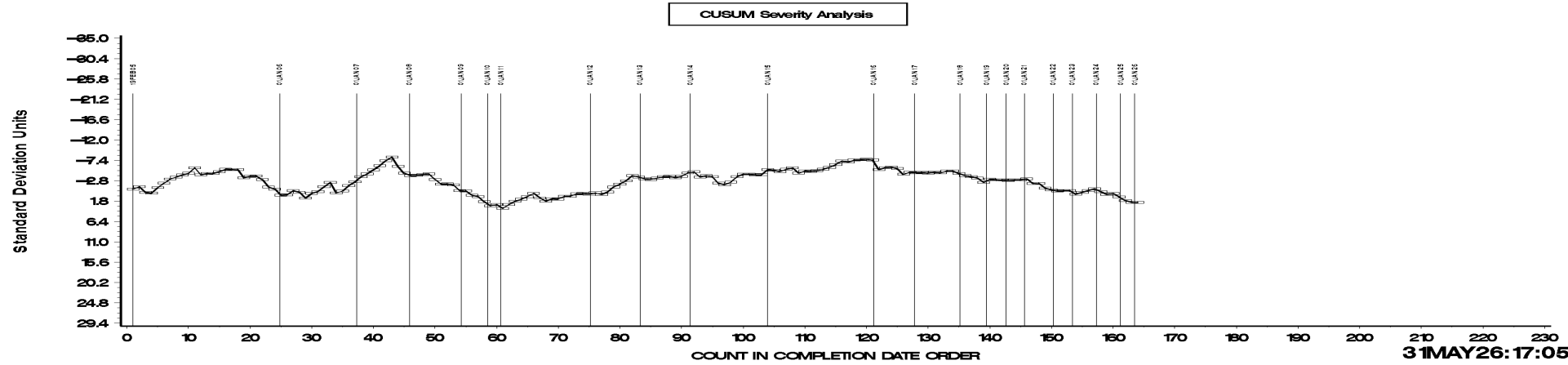
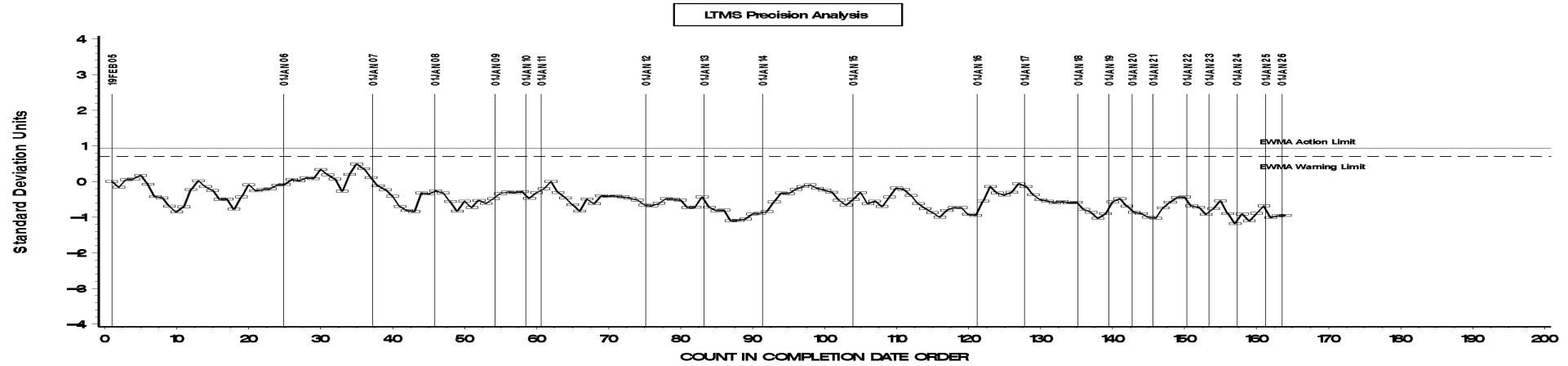
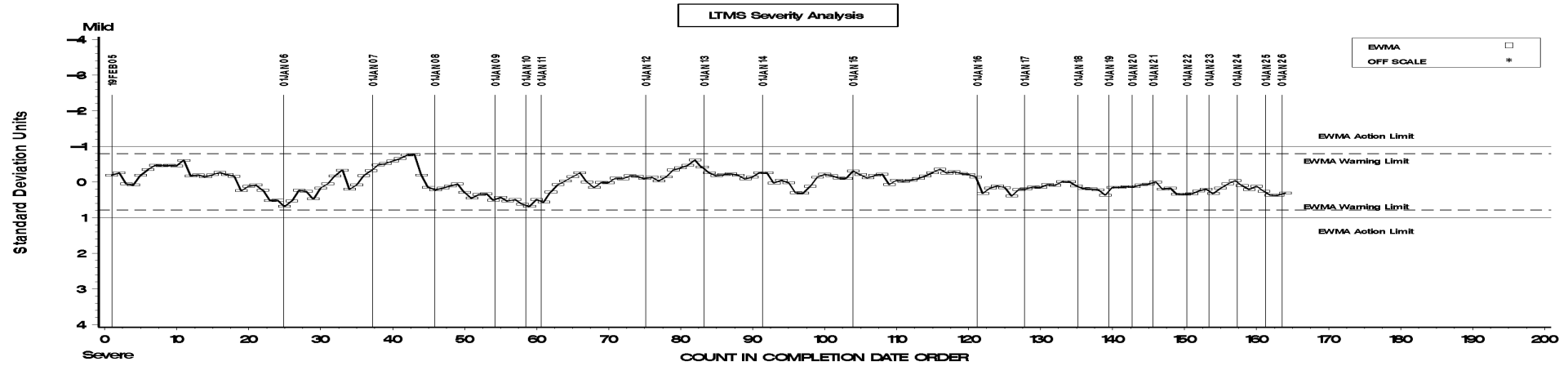
FINAL TRANS. RES. DELTA PB 250-300H



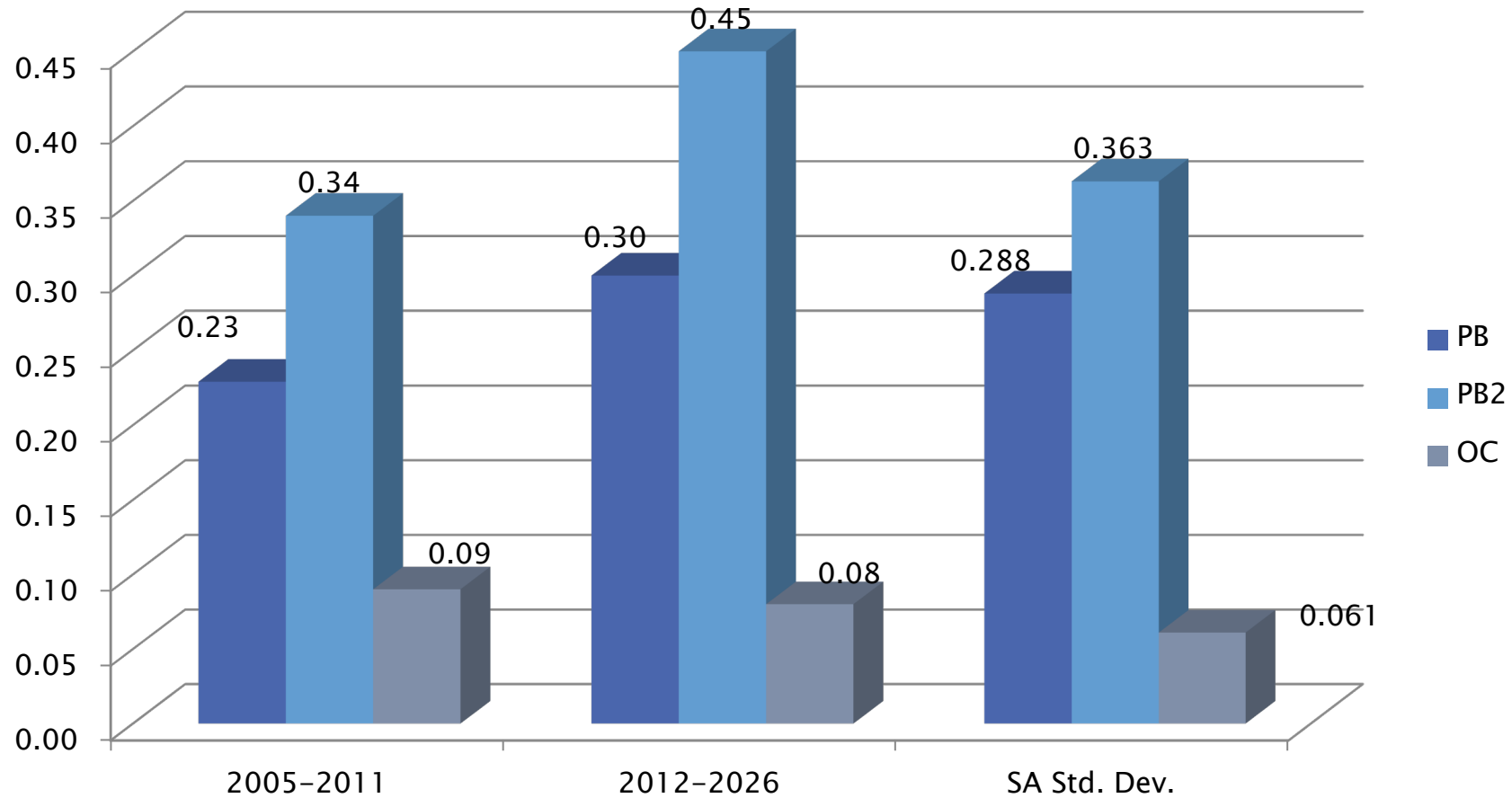
MACK T-12 INDUSTRY OPERATIONALLY VALID DATA



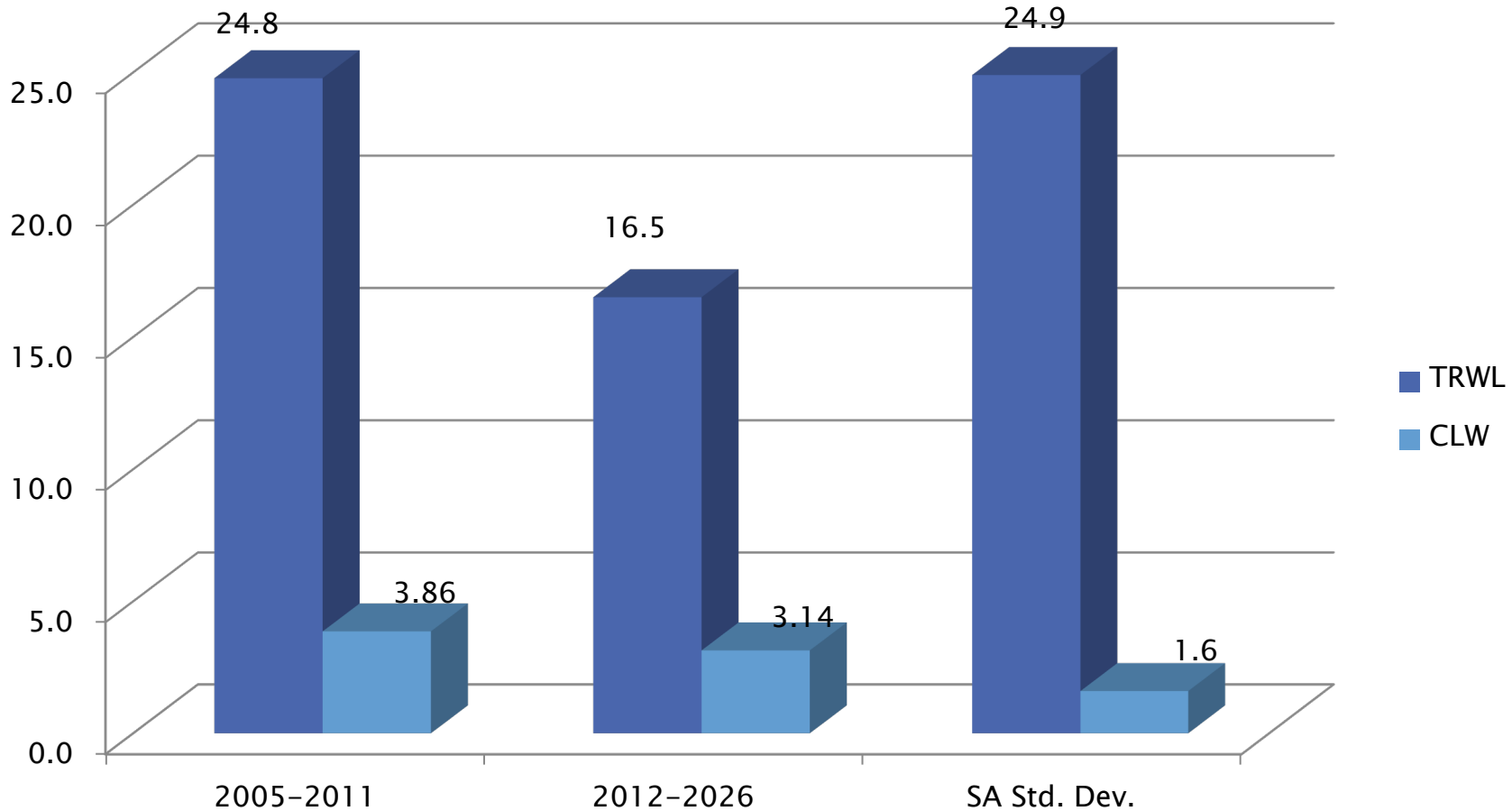
AVG. TOP RING WEIGHT LOSS (TRWL)



T-12 Precision Estimates



T-12 Precision Estimates



[Return to Table of Contents](#)

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Mack T-12A

»» April 2026

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T-12A Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	0
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		0

T-12A Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

T-12A Lost Tests*

Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

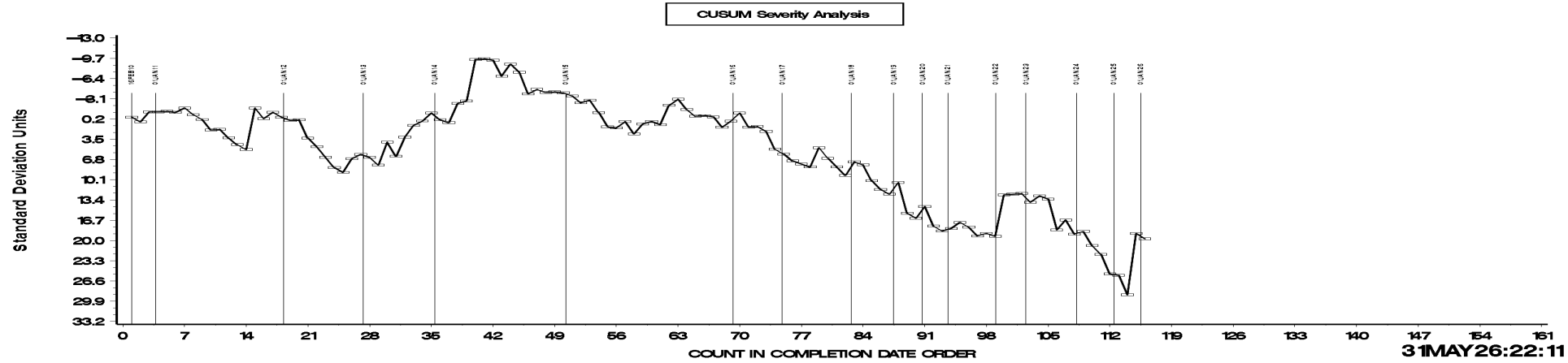
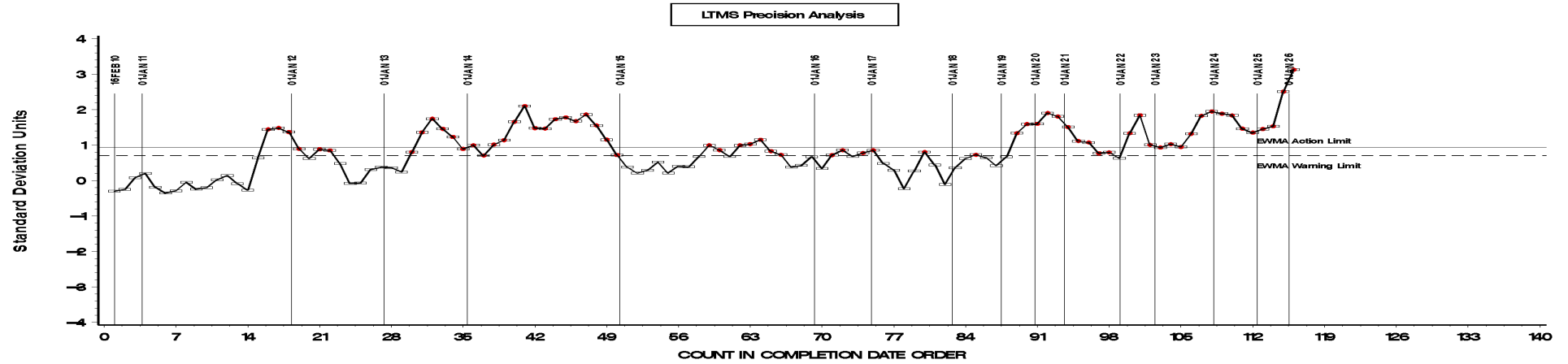
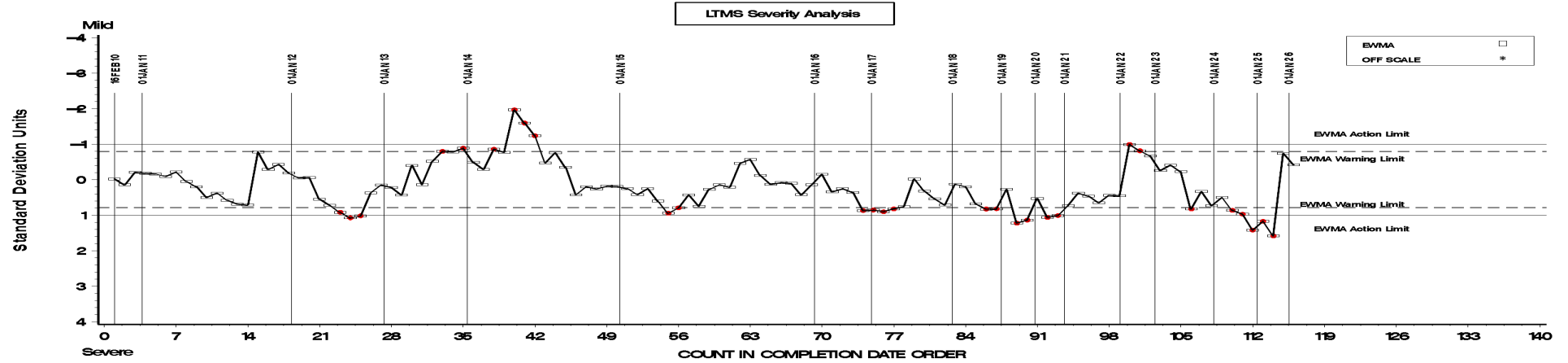
T-12A Test Severity

- ▶ Since no tests were run during this reporting period, no statement about test severity can be made.

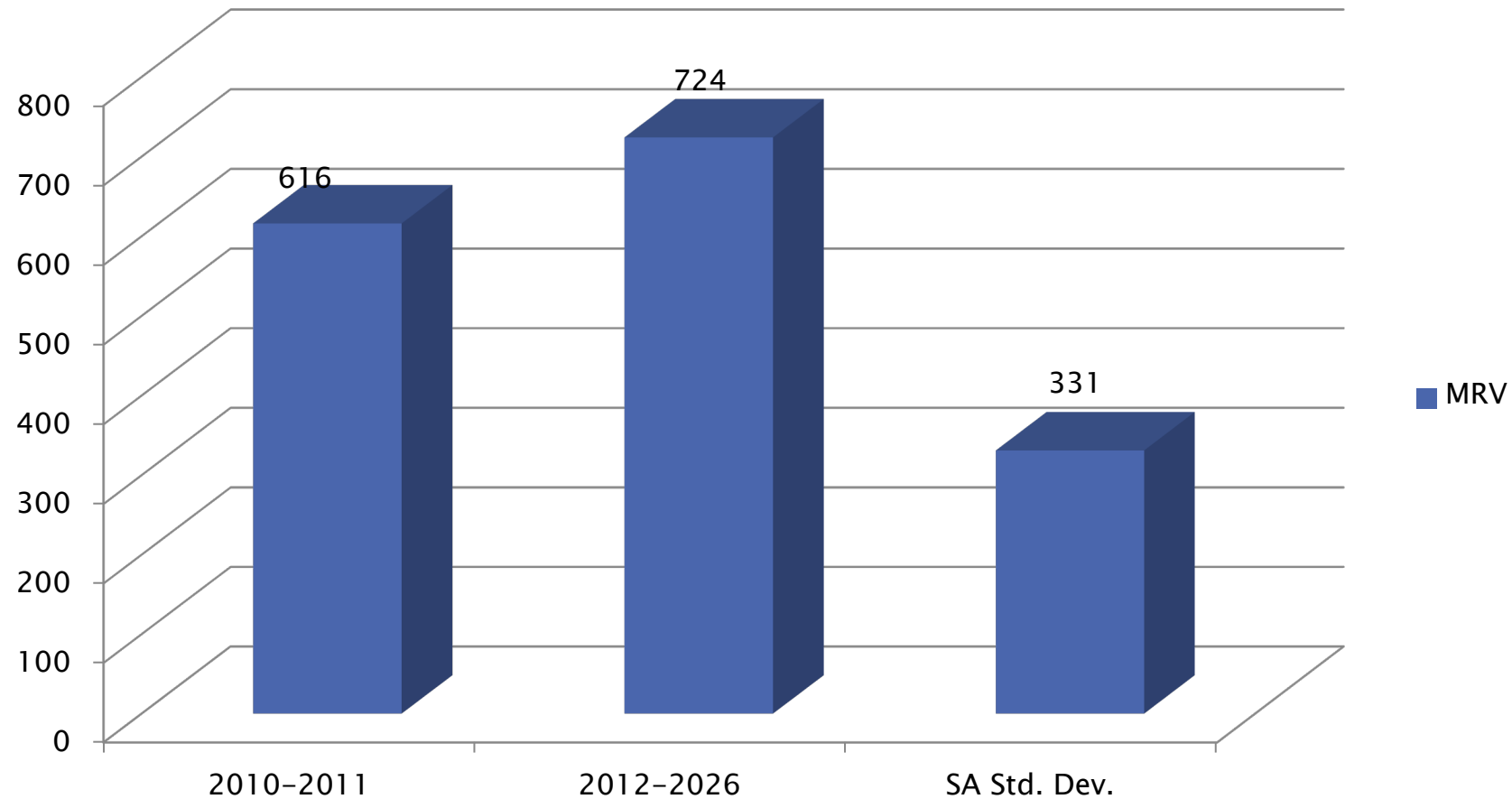
MACK T-12A INDUSTRY OPERATIONALLY VALID DATA



FINAL ORIGINAL UNIT MRV VISCOSITY [NM, SOLID, FROZEN, <, >]



T-12A Precision Estimates



[Return to Table of Contents](#)

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Mack T-13

»» April 2026

T-13 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	6
Failed Calibration Test	OC	0
Operationally Invalid	LC	0
Aborted	XC	0
Total		6

T-13 Failed Tests

Failed Parameter	Number of Tests
No failed tests	0
Total	0

T-13 Lost Tests*

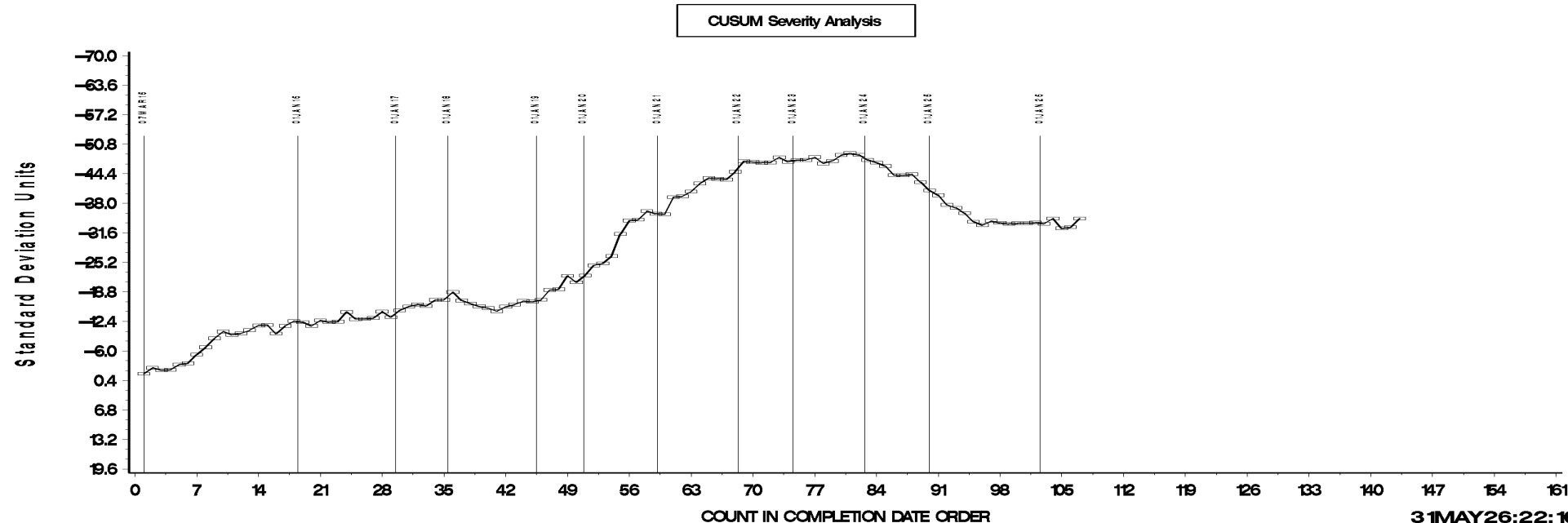
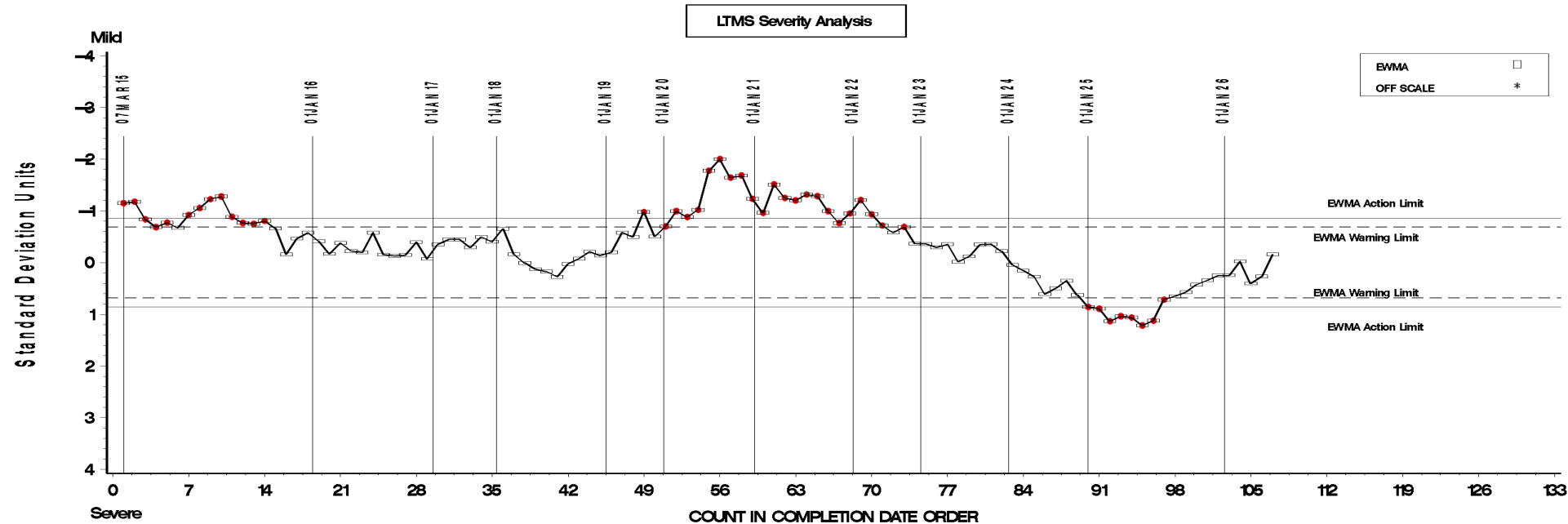
Status	Cause	#
Invalid	No invalid tests	0
Aborted	No aborted tests	0
Total		0

*Invalid and aborted tests

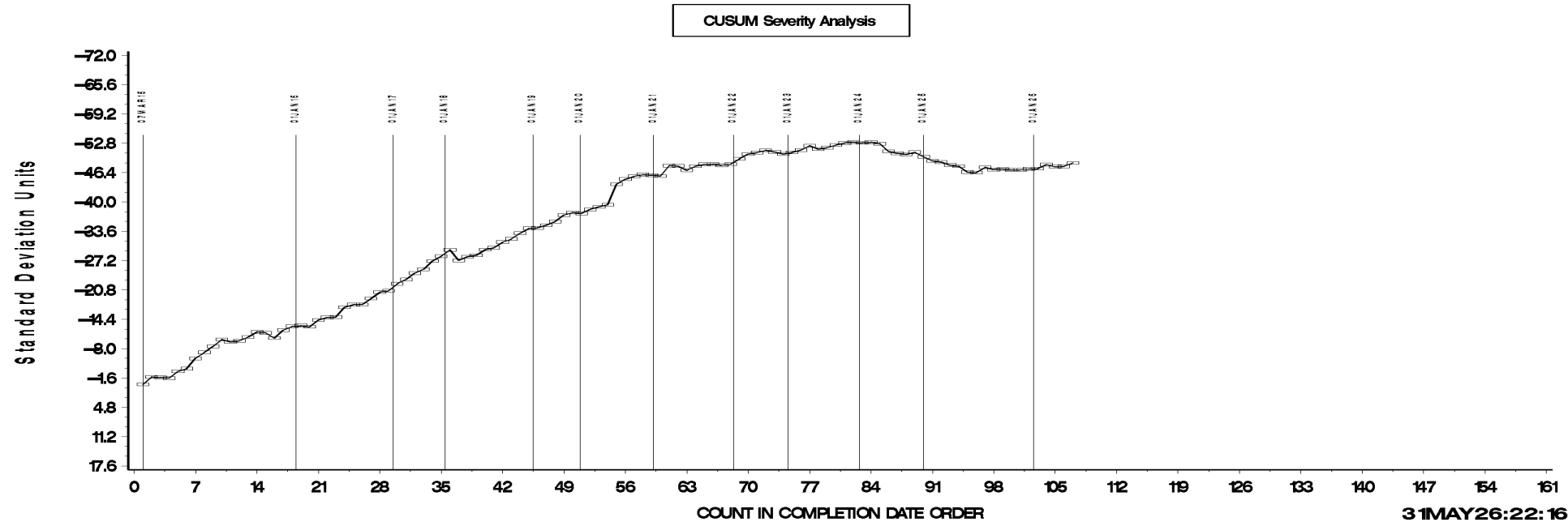
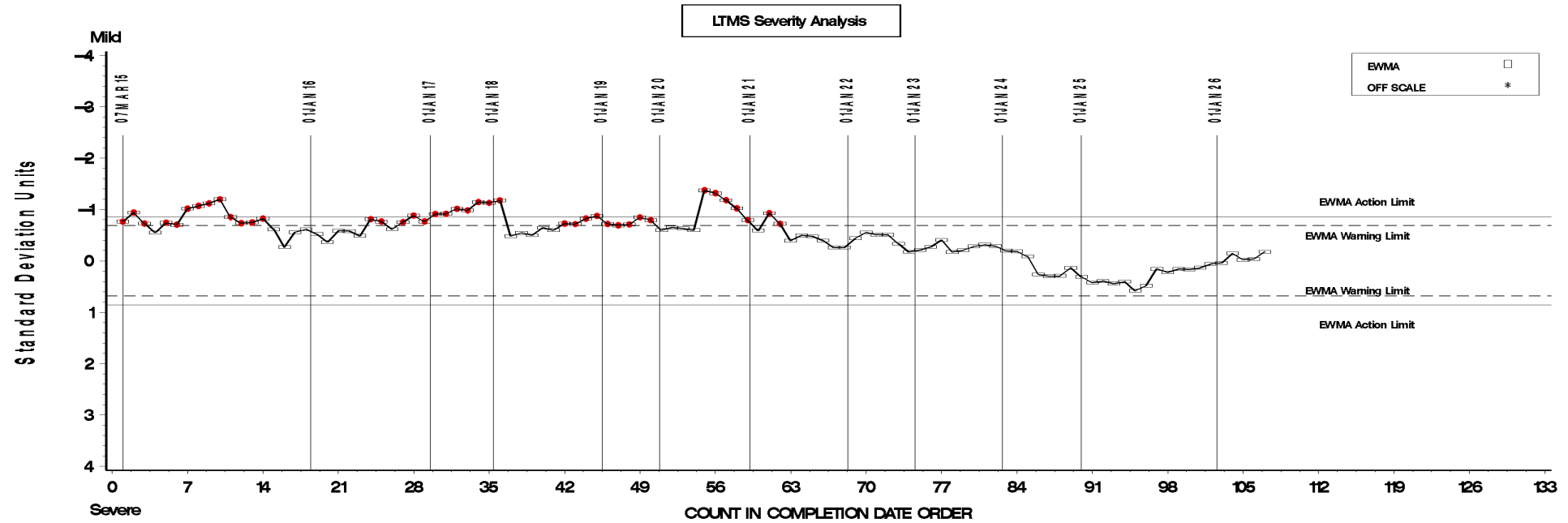
T-13 Test Severity

- ▶ IRPH and KV40 are in control.

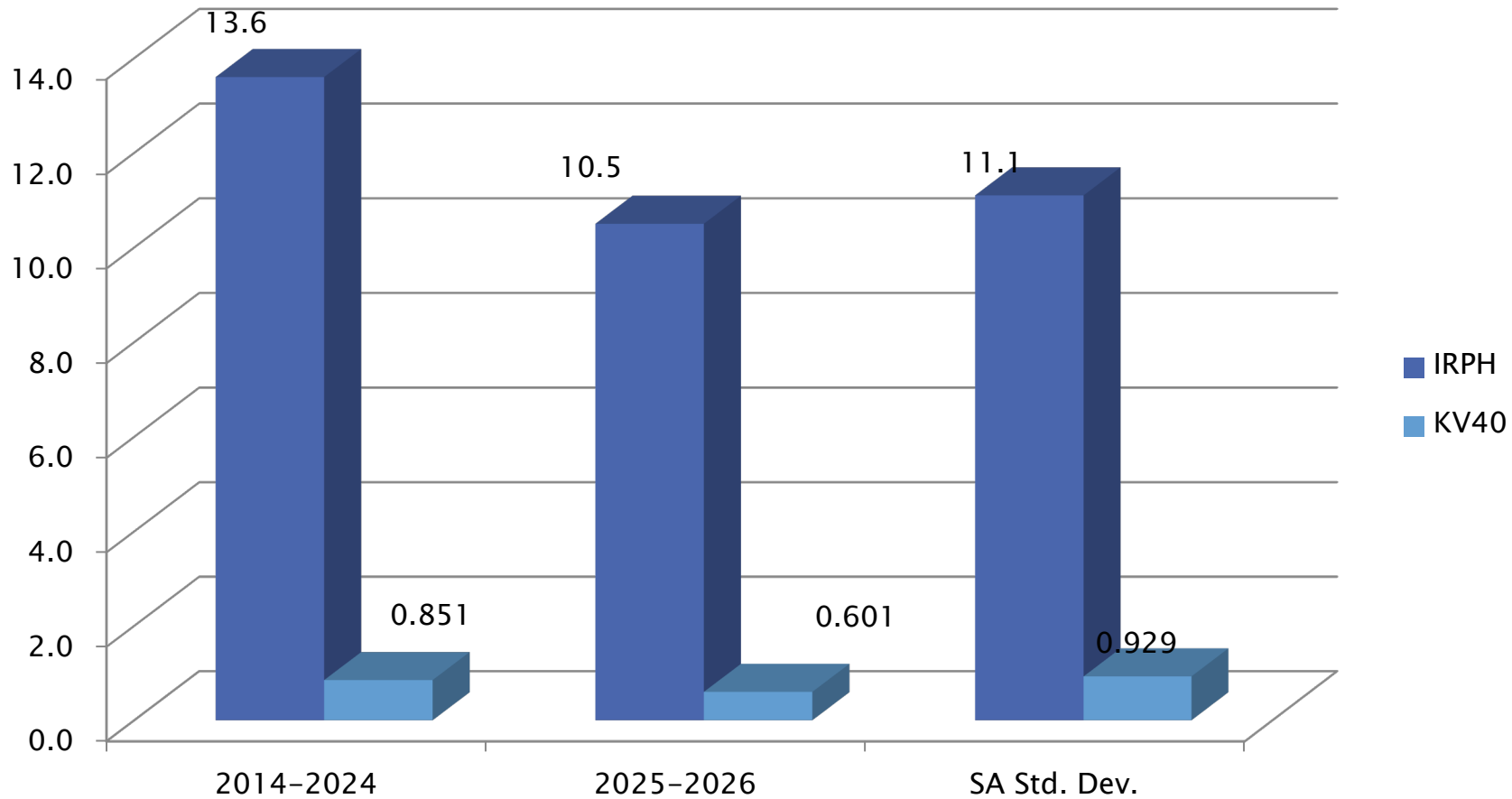
FINAL ORIGINAL PEAK HEIGHT IR AT EOT



FNL. ORIG. UNIT KINEMATIC VISCOSITY AT 40 DEG C % CHANGE 300-360 HRS



T-13 Precision Estimates



[Return to Table of Contents](#)

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Information Letters

»» October 1, 2025 – March 31, 2026

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Information Letters*

Test	Date	IL	Topic
ISBV108/ISB V156	12/02/25	25-1	Change to IR oxidation method & requirements

*Available from TMC Website

[Return to Table of Contents](#)

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<https://www.astmtmc.org>



Memos

»» October 1, 2025 – March 31, 2026

Memos*

Date	Number	Topic
N/A	N/A	No memos were issued during the period

*Available from TMC Website

[Return to Table of Contents](#)

Test Monitoring Center
<https://www.astmtmc.org>



Reference Oil Inventory

»» Actions, Re-blends, Inventories
and Estimated Life

Reference Oil Reblends

- ▶ No current reference oil re-blends being pursued.

Reference Oil Inventory Estimated Life

<u>Original Blend</u>	<u>Oil</u>	<u>Tests</u>	<u>Year</u>	<u>Blend Quantity</u>	<u>TMC Inventory</u>	<u>Estimated Life</u>
809	809-1	1K, 1N	1991	9134	1856	>5
811	811-2	1K, 1N	1995	1732	690	>5
821	821-4	T-12	2013	4495	1700	>5
822	822-2	1R, T-11	2013	4386	196	1
823	823-1	T-13	2021	1438	750	>5
824	824	T-13	2024	881	625	>5
830	830-3	ISM	2016	2891	1728	>5
831	831-4	C13, ISB	2017	1699	82	2.5
831	831-5	C13, ISB	2024	1884	1722	>5
832	832-1	COAT	2018	1951	1214	>5
832	832-2	COAT	2022	734	513.5	>5
833	833-1	COAT	2022	1248	54	<0.5
833	833-2	COAT	2022	1078	608	>5
834	834-1	ISB Soot	2024	1499	1354	>5

Reference Oil Inventory Estimated Life

<u>Original Blend</u>	<u>Oil</u>	<u>Tests</u>	<u>Year</u>	<u>Blend Quantity</u>	<u>TMC Inventory</u>	<u>Estimated Life</u>
835	835	ISB	2024	867	315	4
864	864-1	DD13	2016	1576	112	1.5
864	864-2	DD13	2023	1491	1459	>5
1005	1005-5	1P, 1R, EOAT, RFWT, T-8E	2015	3826	83	<1
1005	1005-6	EOAT, COAT	2021	480	238	>5
1005	1005-7	1P, 1R, EOAT, RFWT, T-8E	2024	981	911	>5
FVTW1	FVTW1	FVTW	2021	1020	691	>5
FVTW2	FVTW2	FVTW	2021	1020	691	>5
FVTW3	FVTW3-1	FVTW	2022	753	245	>5

LTMS Deviations

»» October 1, 2025 – March 31, 2026

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LTMS Deviations

- No LTMS Deviations in Current Period

Historical Count of HD LTMS Deviations

Test	LTMS Deviations
1M-PC	2
1N	2
T-8/E	2
T-10A	1
T-12	1

[Return to Table of Contents](#)

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Quality Index Deviations

»» October 1, 2025 – March 31, 2026

Test Monitoring Center
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Quality Index Deviations

- ▶ No Qi deviations were issued this period

Quality Index Deviations

Historical Count of HD Quality Index Deviations

Test	Qi Deviations
1P	15
1R	1
ISM	3
C13	2
T-10A	1
T-11	3
T-12	8
T-13	3
COAT	5

[Return to Table of Contents](#)

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TMC Laboratory Visits

➤➤ October 1, 2025 – March 31, 2026

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TMC Lab Visits

- ▶ No HD lab visits were conducted during this reporting period.

[Return to Table of Contents](#)

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Test Area Timelines

»» October 1, 2025 – March 31, 2026

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Test Area Timeline Additions*

Test	Date	IL/Memo	Topic
ISBV108/IS BV156	12/02/25	25-1	Change to IR oxidation method & requirements

[Return to Table of Contents](#)

*As of 3/31/26

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Miscellaneous Information

- ▶ Available on TMC Website:
 - Oil Assignment Request and Test File Upload
 - Live Reference Test Data Bases
 - Surveillance Panel Meeting Minutes
 - Test Area Alarm Logs
 - Complete Test Area Timelines
 - LTMS Manual
- ▶ <https://www.astmtmc.org>

[Return to Table of Contents](#)

Test Monitoring Center
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