



A Program of ASTM International

Test Monitoring Center

<https://www.astmtmc.org>

ASTM D02.B.03 Semiannual Report Gear Reference Oil Testing

October 2025

Table of Contents

Section	Topic
Executive Summary	
	<u>Summary Items</u>
	<u>Calibrated Labs and Stands</u>
Test Area Status Summaries	
	<u>L-33-1</u>
	<u>L-37-1</u>
	<u>L-42</u>
	<u>L-60-1</u>
	<u>OSCT</u>
	<u>HTCT</u>
	<u>L-37 RC</u>
	<u>L-42 RC</u>

Table of Contents

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

Gear Oil Testing Executive Summary

- ▶ Several reference oils are in the process of being updated to replace older reference oils
 - Approval testing underway for OSCT
- ▶ Request to panel members to provide reference oil replacement for 117

[Return to Table of Contents](#)

Gear Oil Testing Executive Summary

▶ OSCT:

- Reference oil 171-1 was introduced in August 2025. This is a re-blend of oil 171 used for PA and FL elastomer testing.
- Approval matrix testing still underway for reference oils 172 and 170-1.

[Return to Table of Contents](#)

Calibrated Labs and Stands*

Test	Labs	Stands
L-33-1	3	7
L-37-1	4	4
L-42	4	4
L-60-1	4	12
OSCT	2	5
HTCT	1	0

*As of 09/30/2025

[Return to Table of Contents](#)

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L-33-1

»» OCTOBER 2025

L-33-1 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	7
Unacceptable Calibration Test	OC	0
Operationally Invalid Calibration Test (TMC and lab judgement)	LC	1
Aborted Calibration Test	XC	1
Acceptable Hardware Approval Run	NI	3
Unacceptable Hardware Approval Run	MI	1
Total		13

L-33-1 Failed Tests

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild Rust)	OC	0
Unacceptable Calibration Test (Precision)	OC	0
Unacceptable Calibration Test (Severe Rust)	OC	0
Total		0

L-33-1 Lost Tests

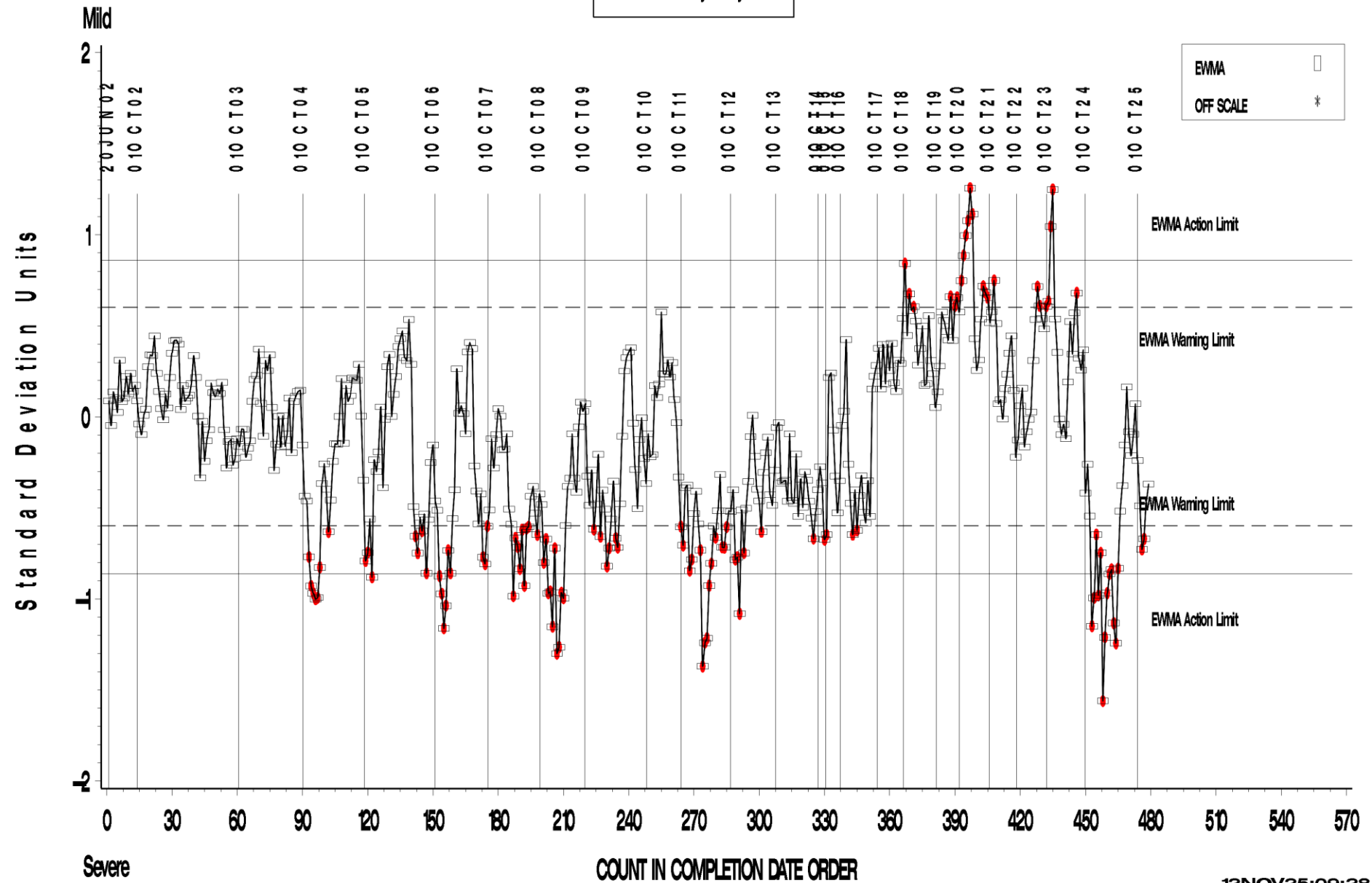
Test Status	Validity Code	#
Oil temp out of spec	LC	1
Software glitch during motoring phase	XC	1
Oil temp out of spec	MI	1
Total		3

L-33-1 Test Severity

- Rust industry severity had two tests outside of the warning limit in the severe direction this reporting period but finished within limits.
- Rust industry precision remained within the limits this period.

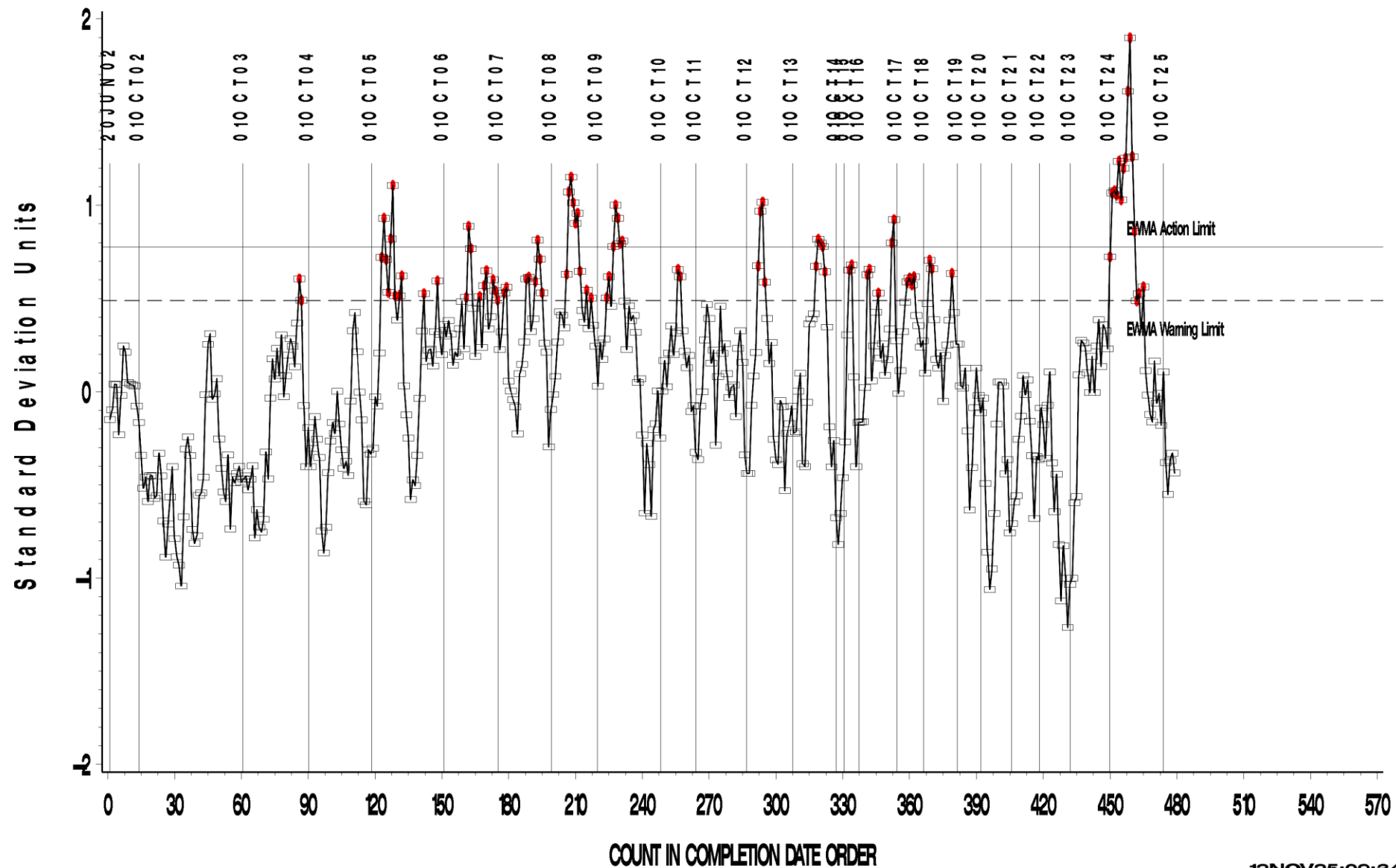
FINAL RUST RESULT

LTMS Severity Analysis



FINAL RUST RESULT

LTMS Precision Analysis

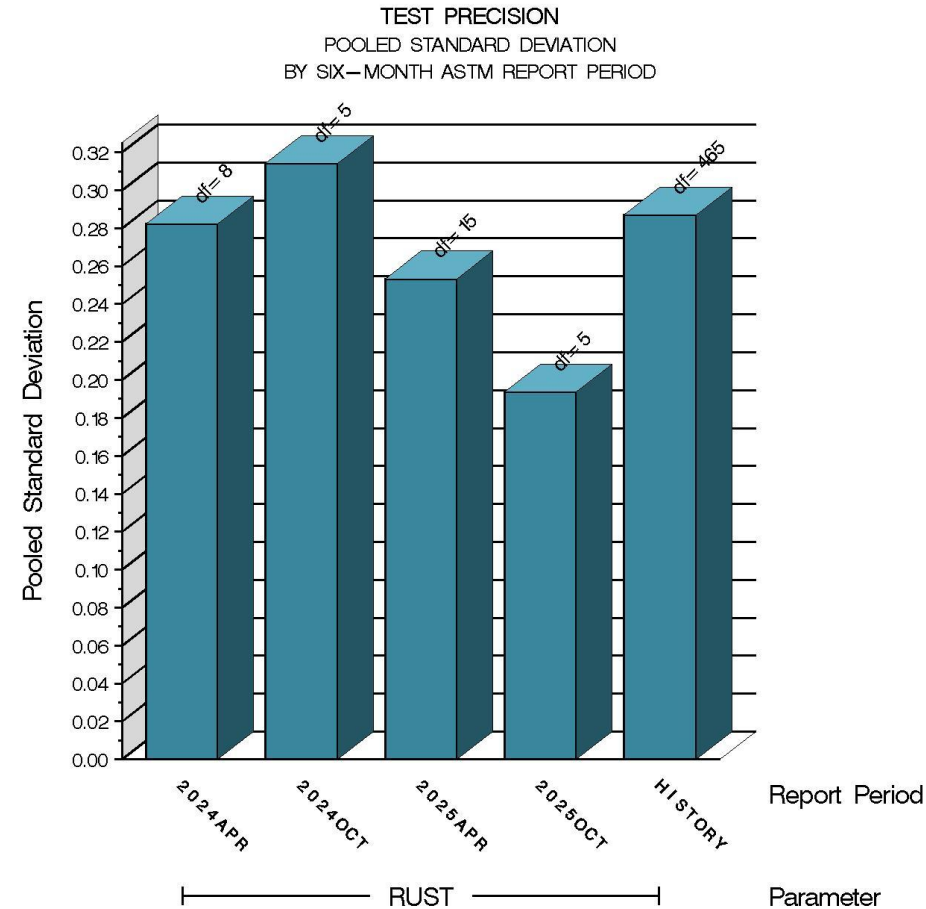


FINAL RUST RESULT

CUSUM Severity Analysis



L-33-1 Precision Estimates



9:16:26 12NOV2025

[Return to Table of Contents](#)

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L-37-1

➡➡ October 2025

L-37-1 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	6
Unacceptable Calibration Test	OC	0
Acceptable Information Run	NI	8
Aborted Information Run	XI	1
Total		15

L-37-1 Failed Tests

Test Status	Validity Code	#
No failed tests this reporting period	OC	0
Total		0

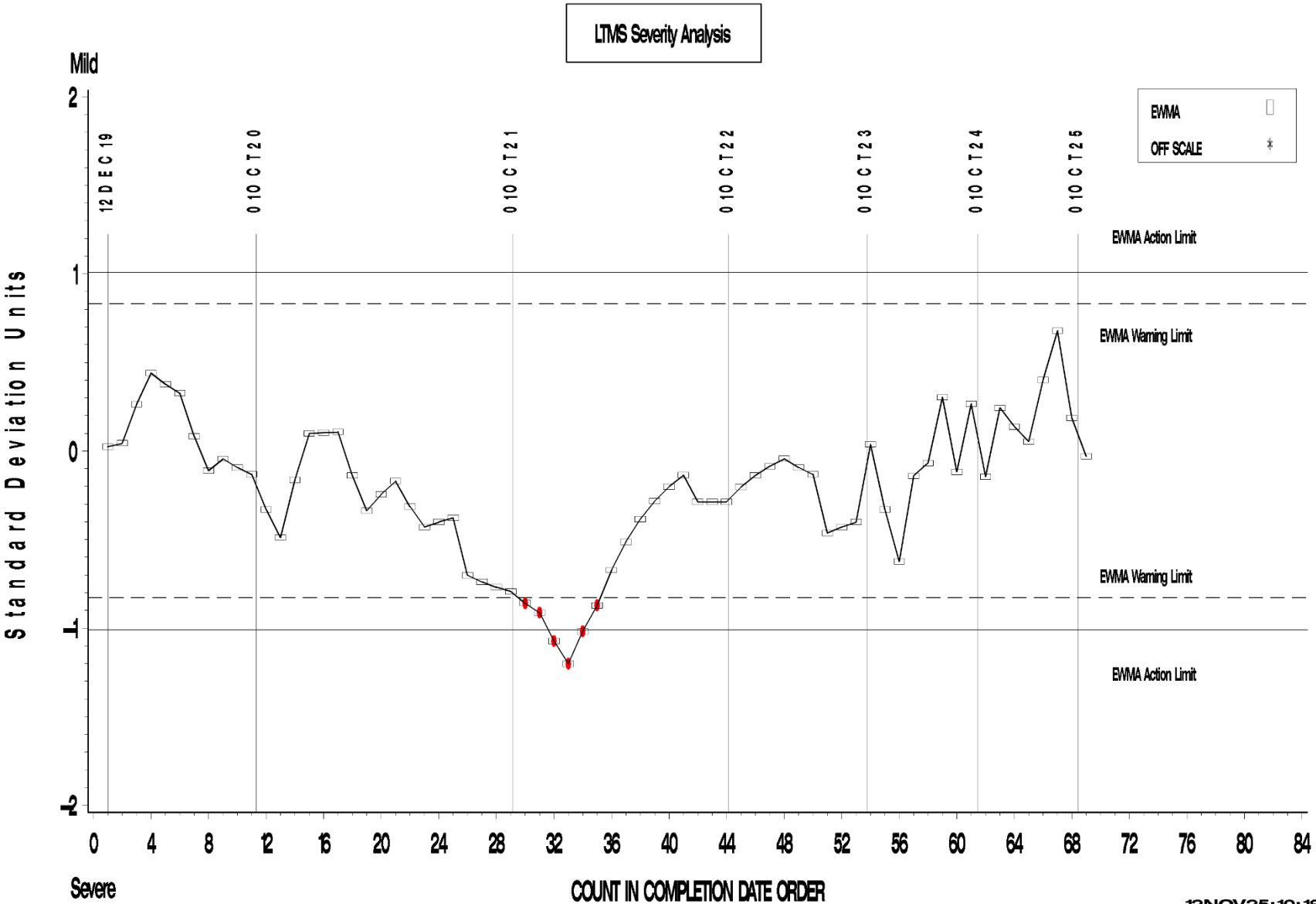
L-37-1 Lost Tests

Test Status	Validity Code	#
Aborted due to broken teeth	XI	1
Total		1

L-37-1 Test Severity Summary

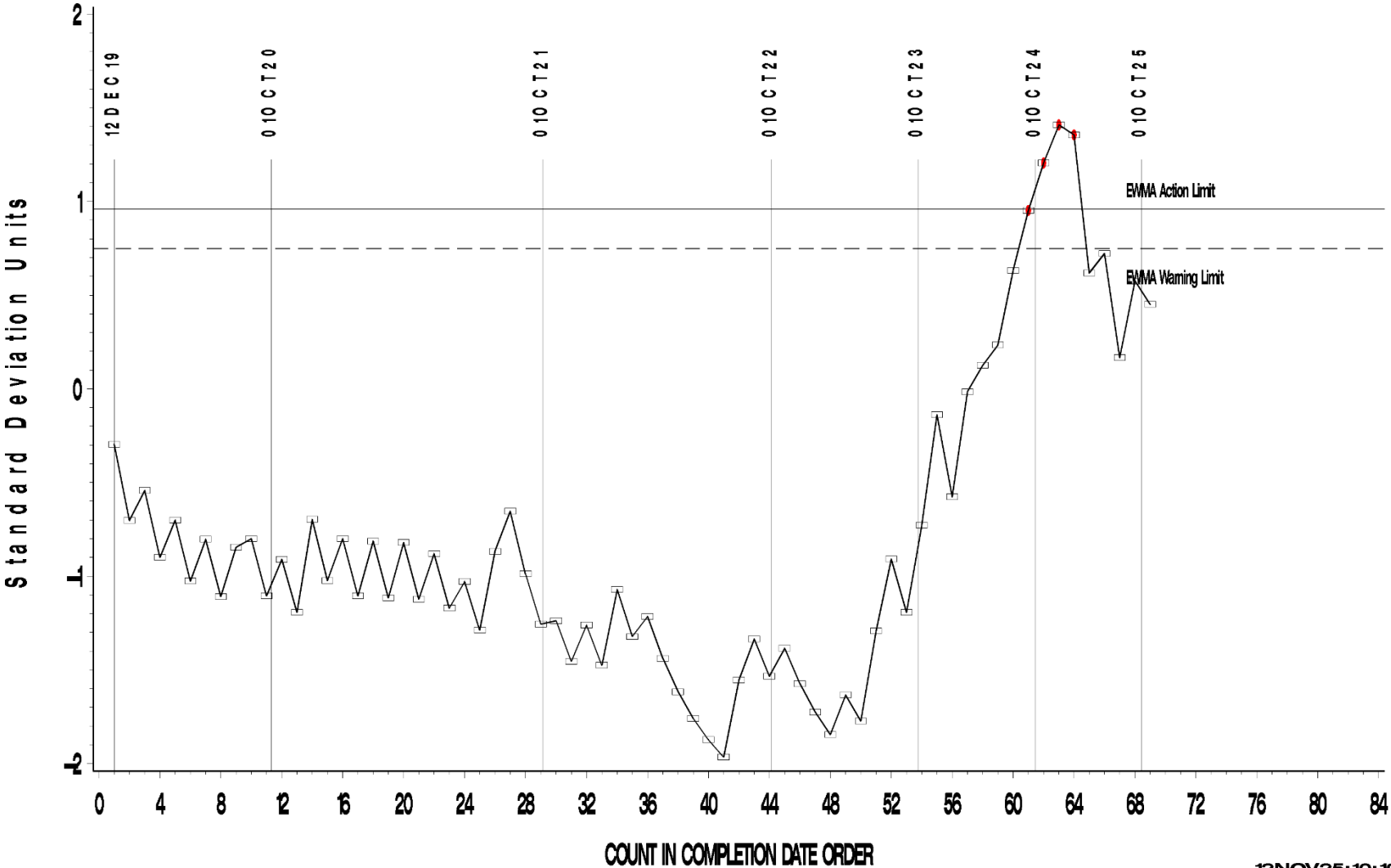
- Uncoated Hardware:
 - All parameters remained within the limits this period for both precision and severity
- Coated Hardware:
 - All parameters remained within the limits for severity during this reporting period.

FINAL PINION GEAR WEAR



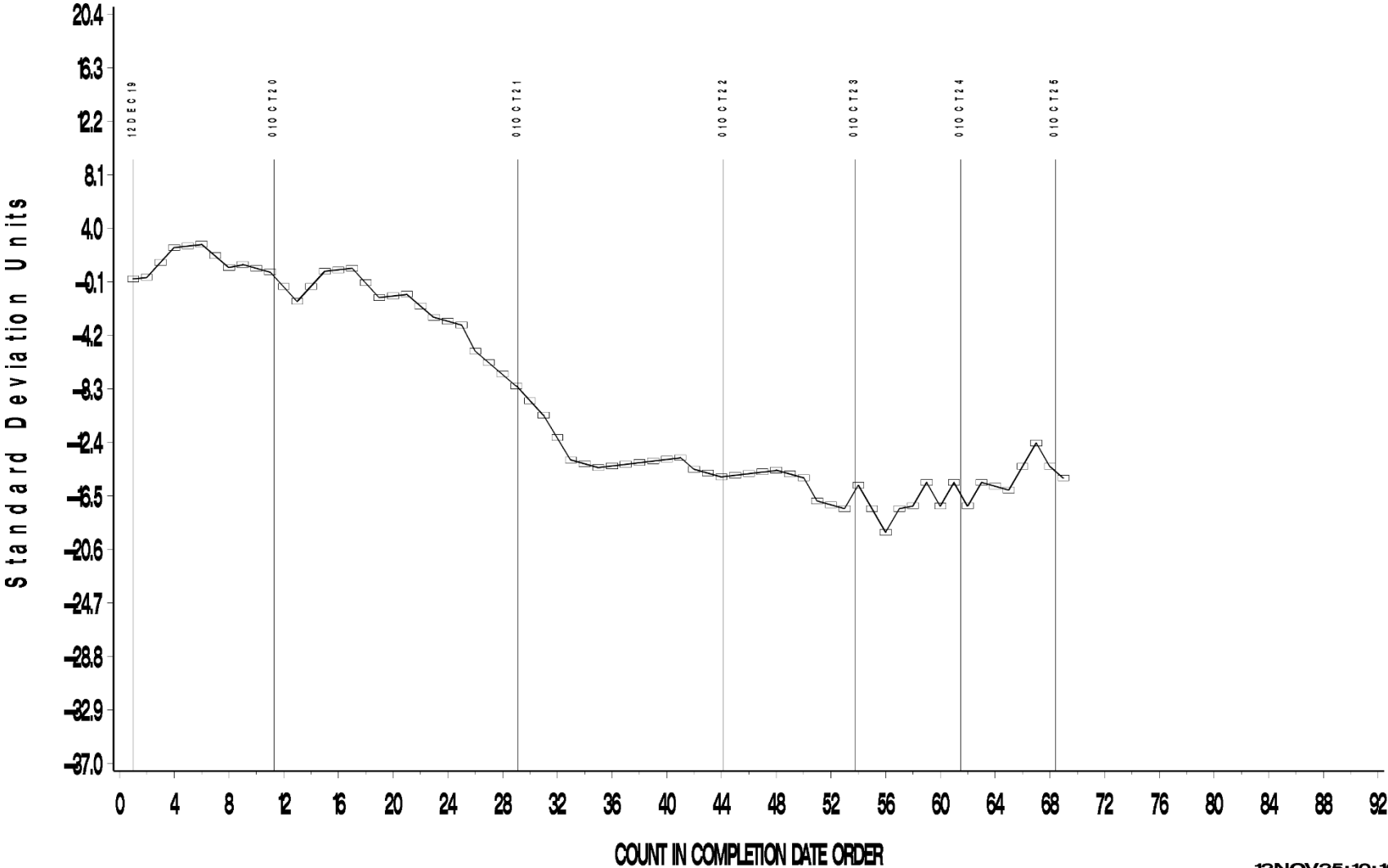
FINAL PINION GEAR WEAR

LTMS Precision Analysis

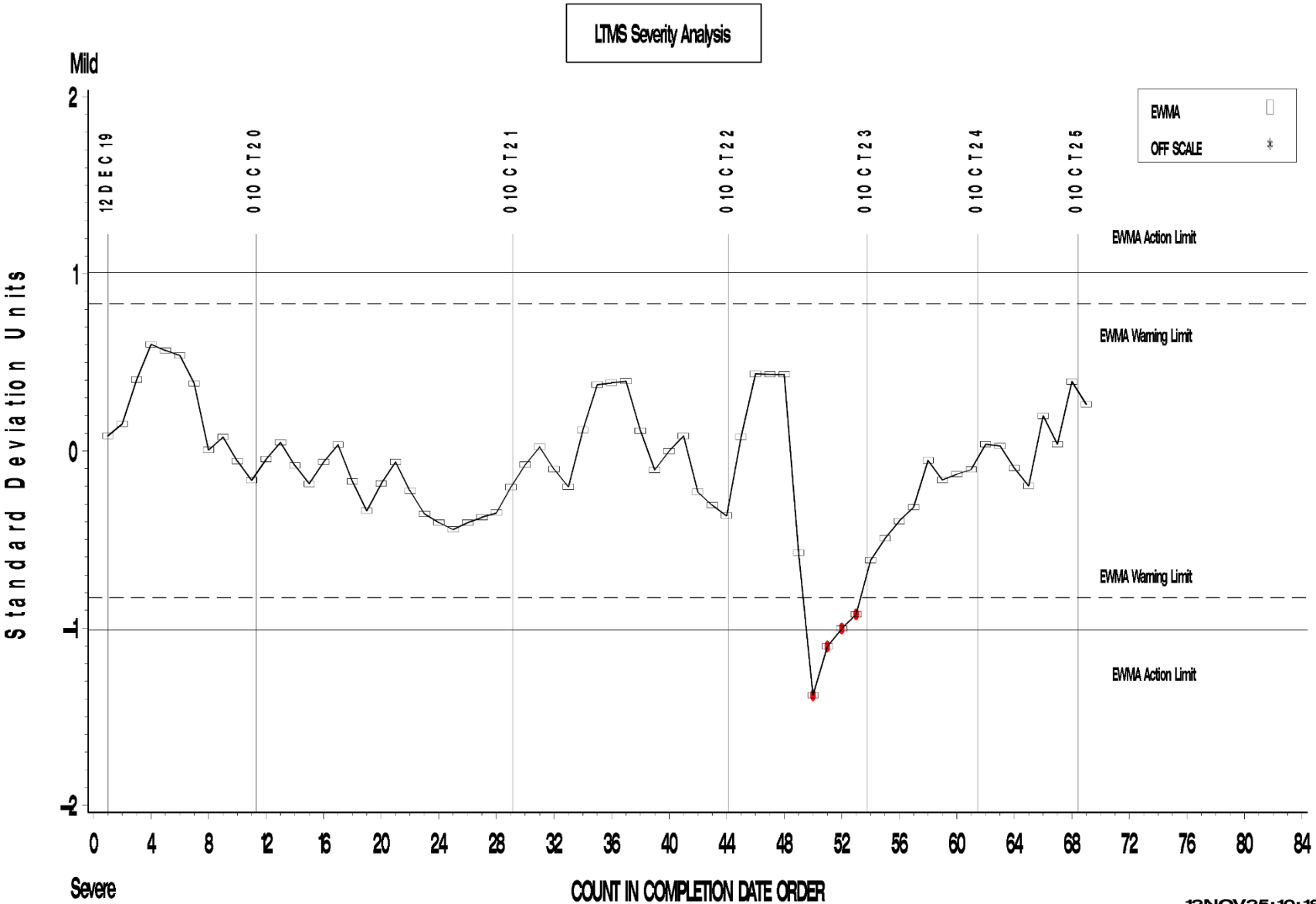


FINAL PINION GEAR WEAR

CUSUM Severity Analysis

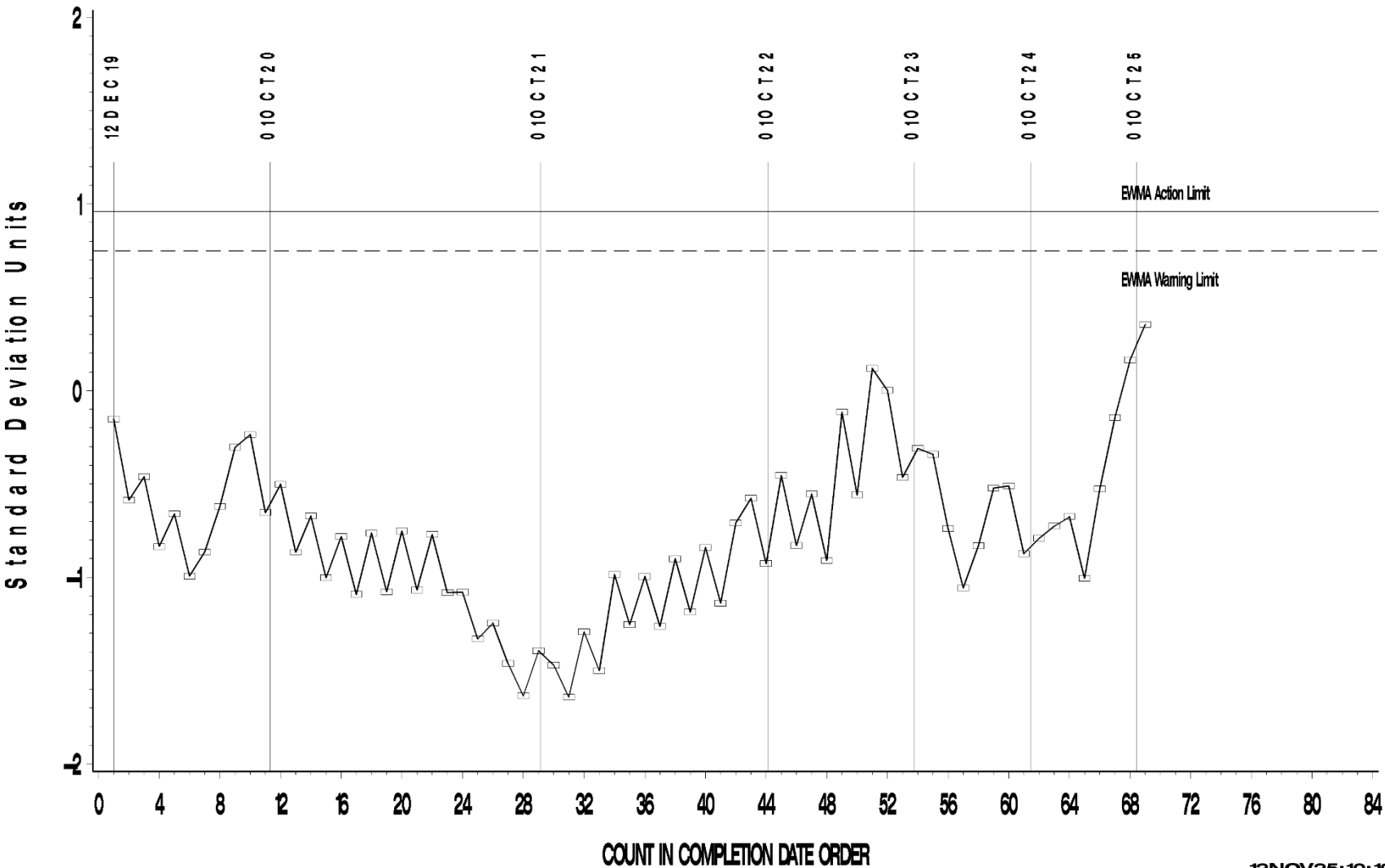


FINAL PINION GEAR RIPPLING



FINAL PINION GEAR RIPPLING

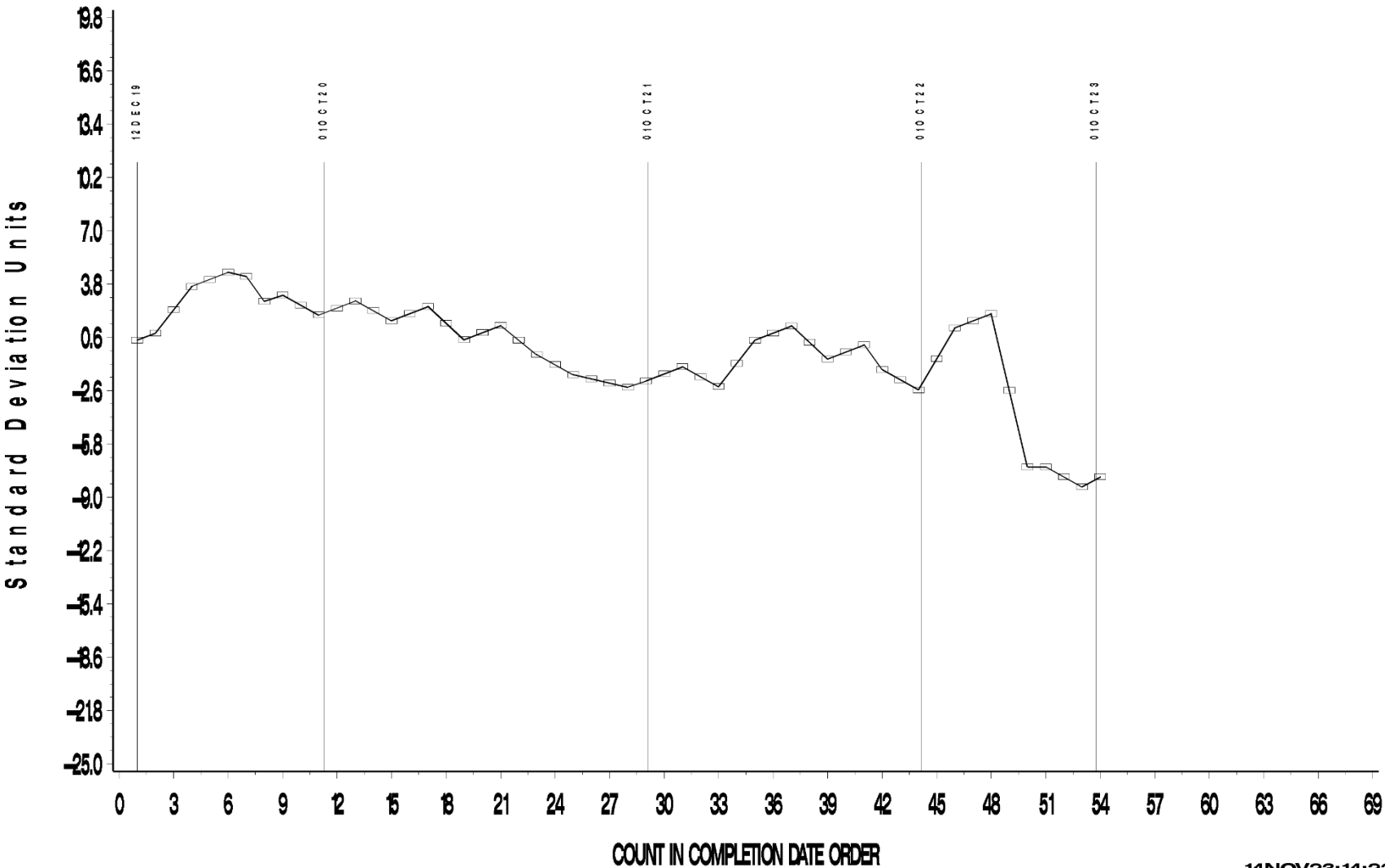
LTVS Precision Analysis



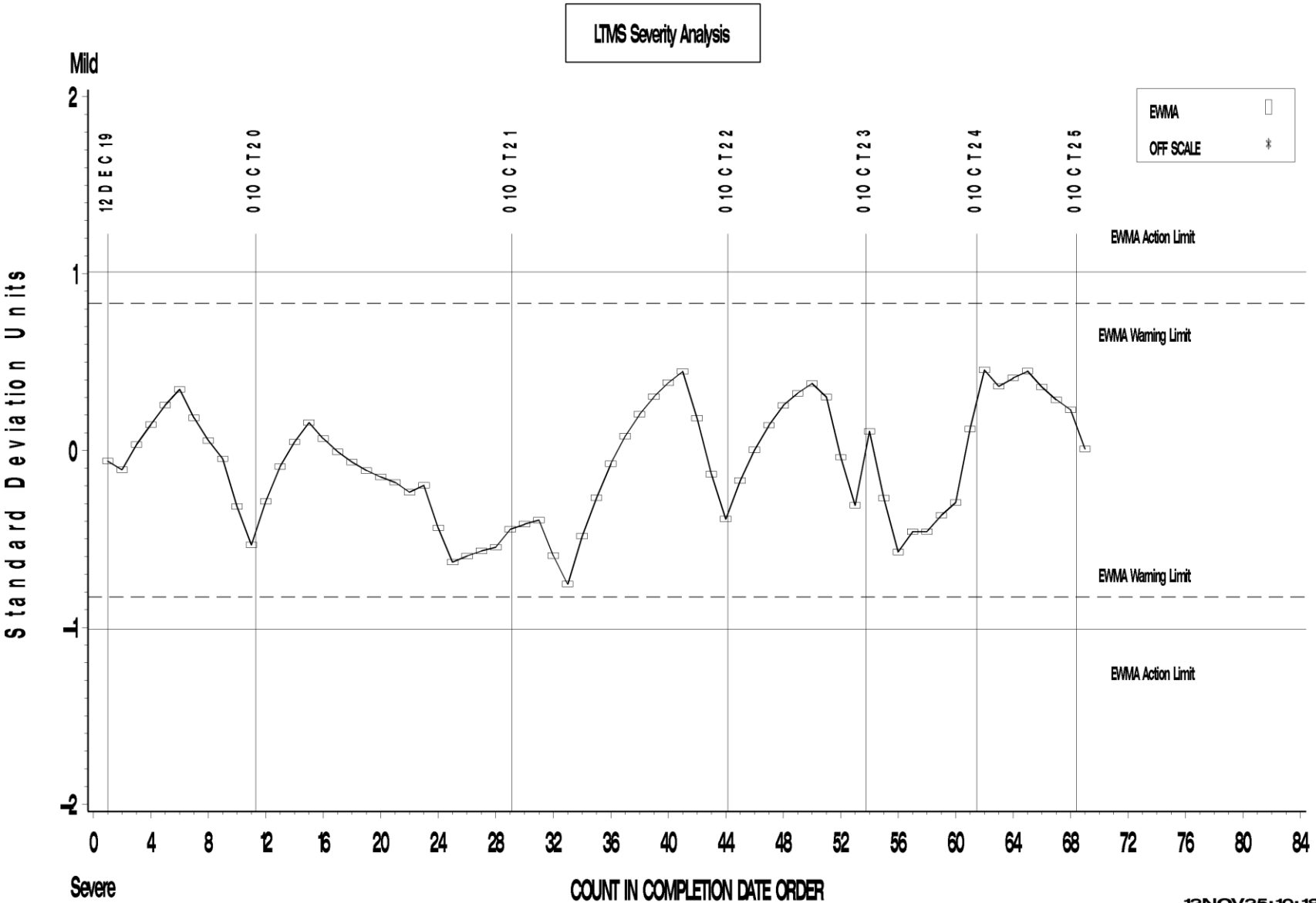


FINAL PINION GEAR RIPPLING

CUSUM Severity Analysis

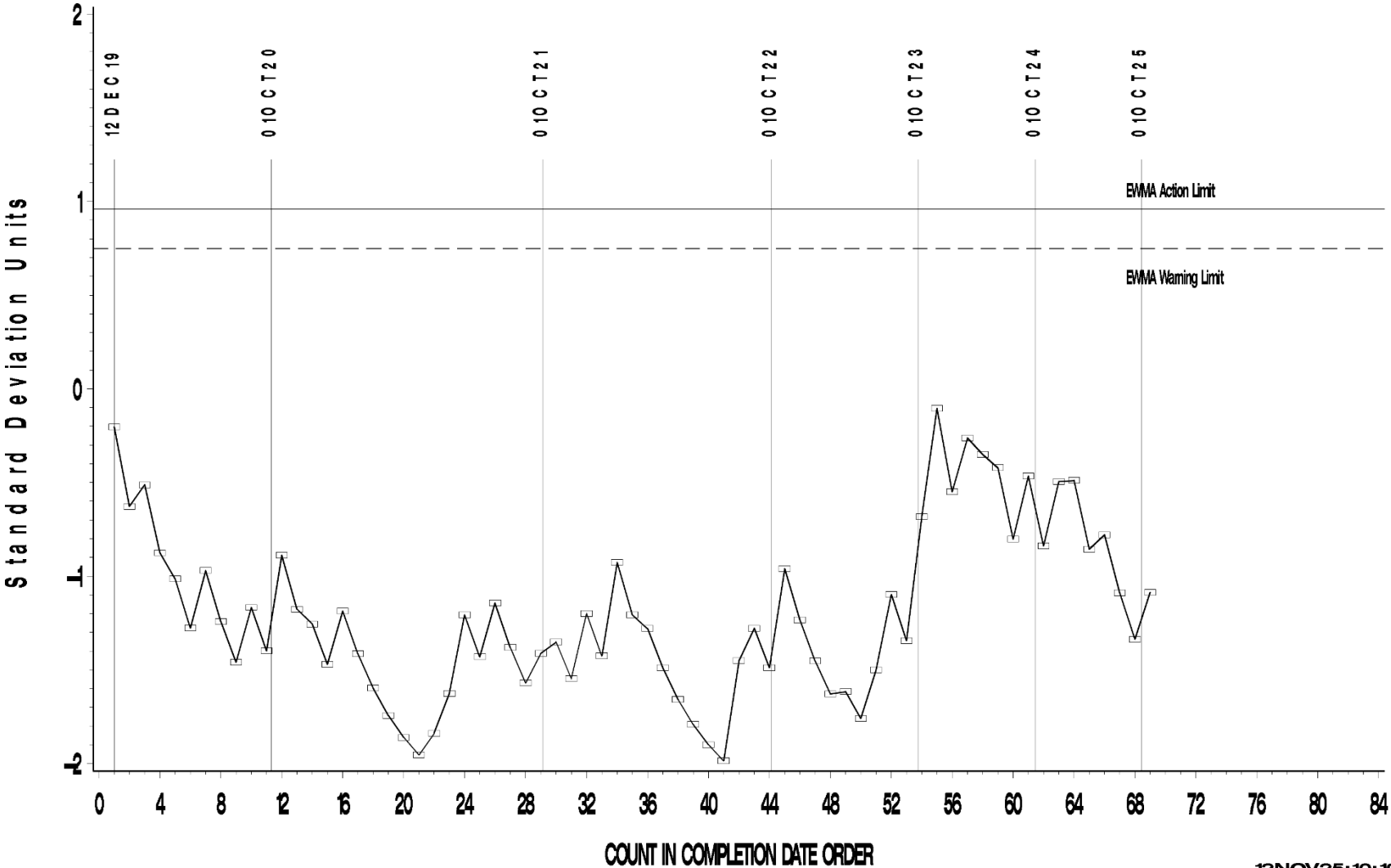


FINAL PINION GEAR RIDGING



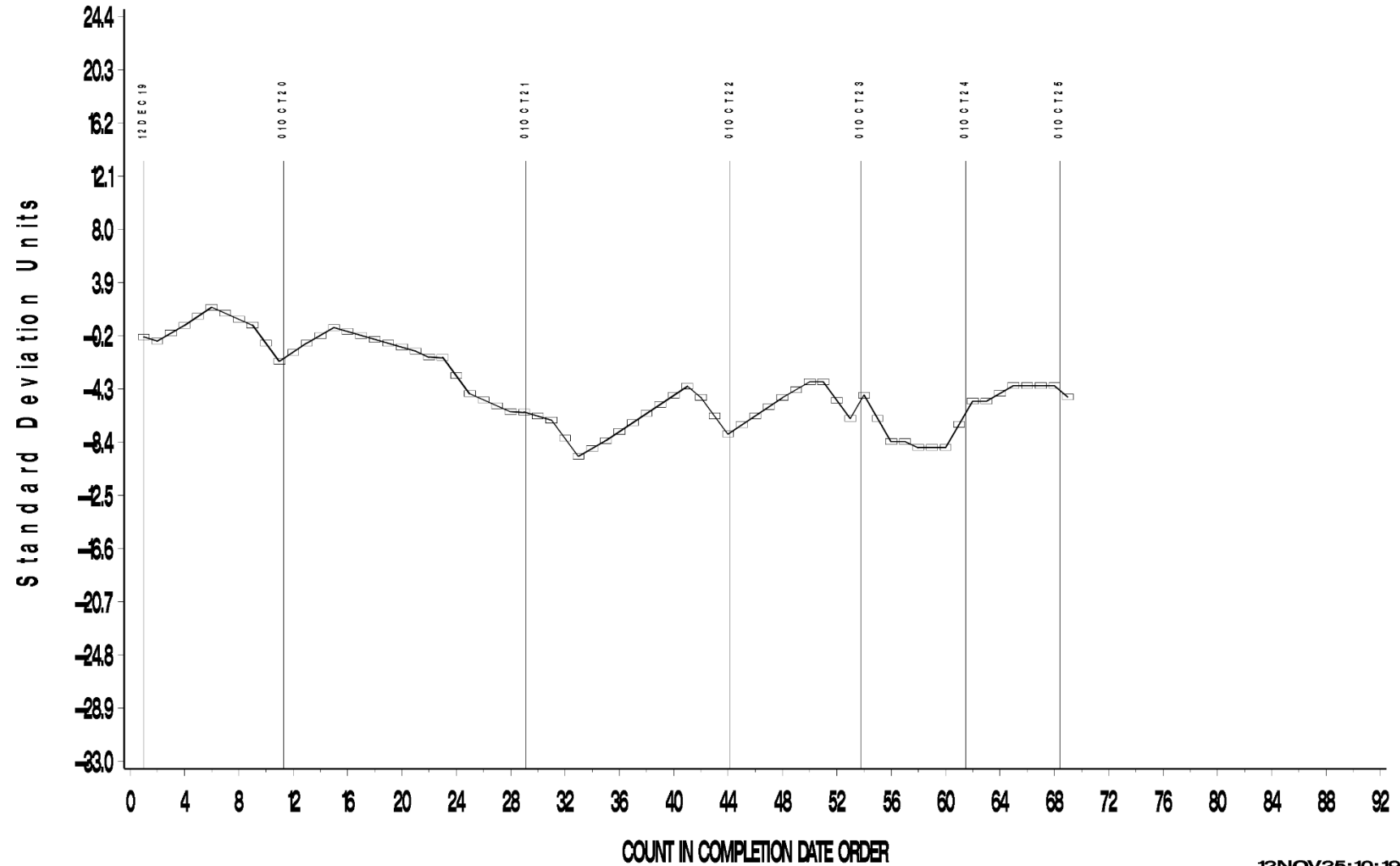
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LTVS Precision Analysis

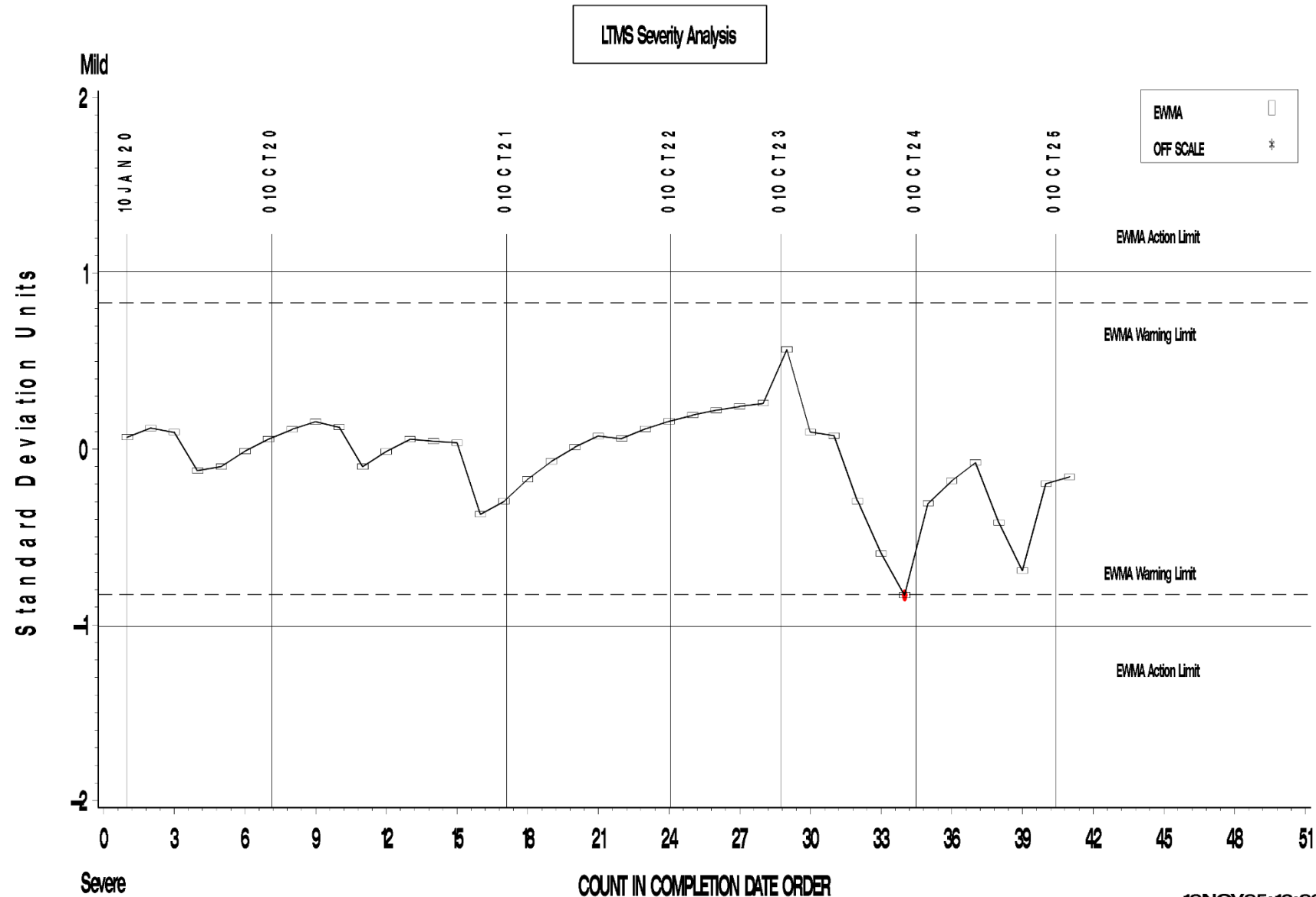


FINAL PINION GEAR RIDGING

CUSUM Severity Analysis



L-37-1 MNP COATED INDUSTRY OPERATIONALLY VALID DATA
IND not in ('155-1', '155-2')
FINAL PINION GEAR PITTING/SPALLING

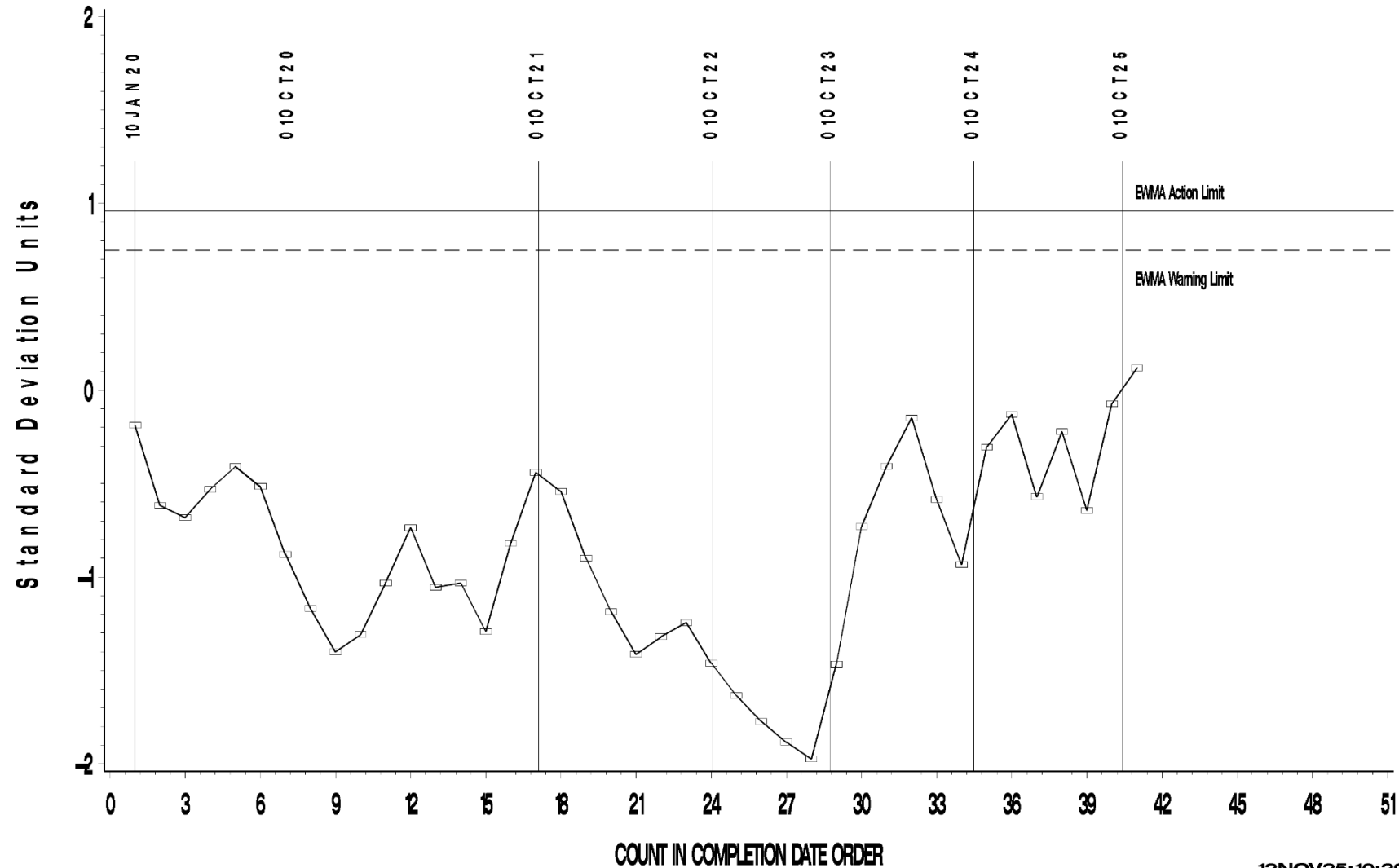


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

L-37-1 MNP COATED INDUSTRY OPERATIONALLY VALID DATA
IND not in ('155-1', '155-2')
FINAL PINION GEAR PITTING/SPALLING



LTMS Precision Analysis

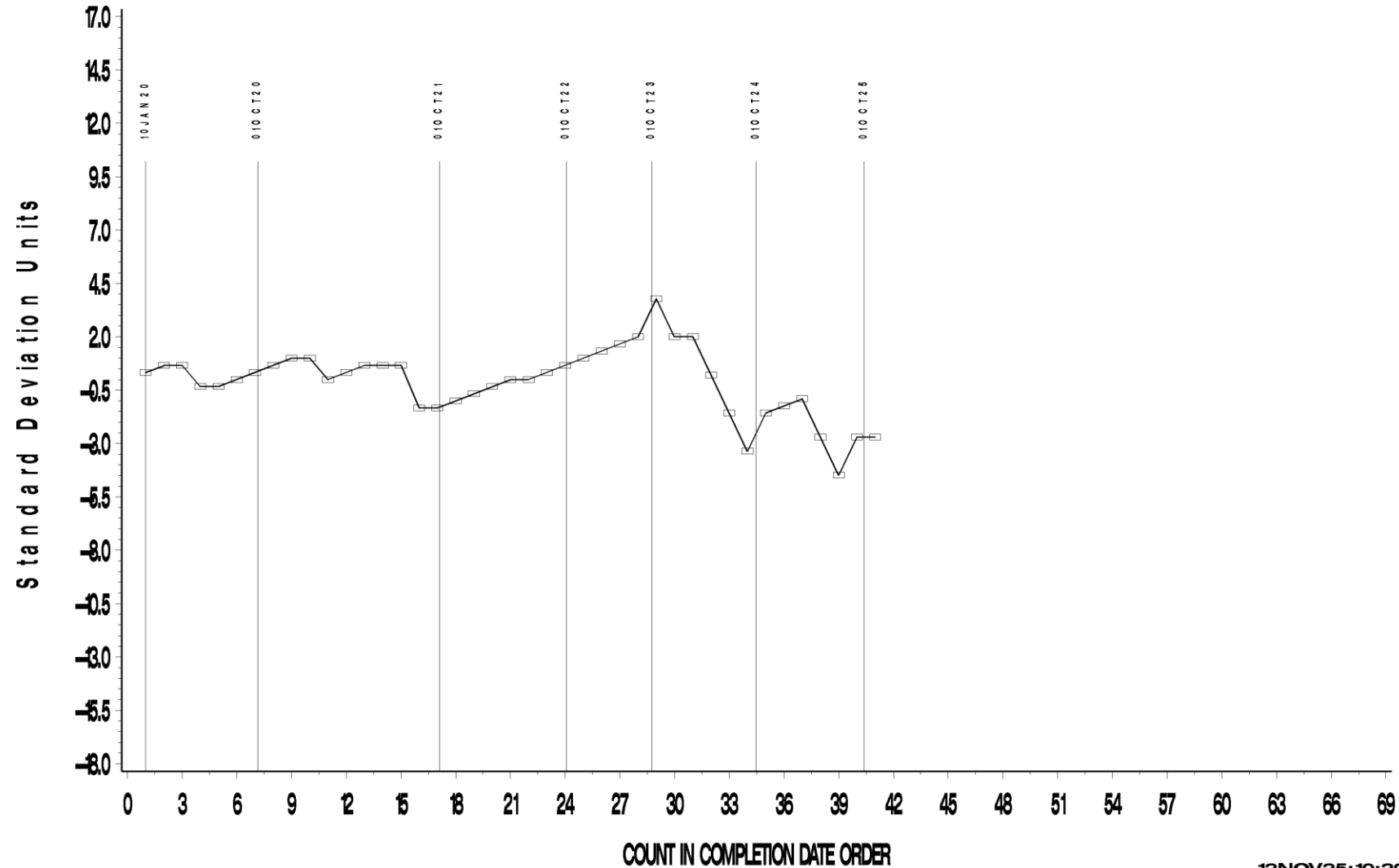


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

L-37-1 MNP COATED INDUSTRY OPERATIONALLY VALID DATA
IND not in ('155-1', '155-2')
FINAL PINION GEAR PITTING/SPALLING



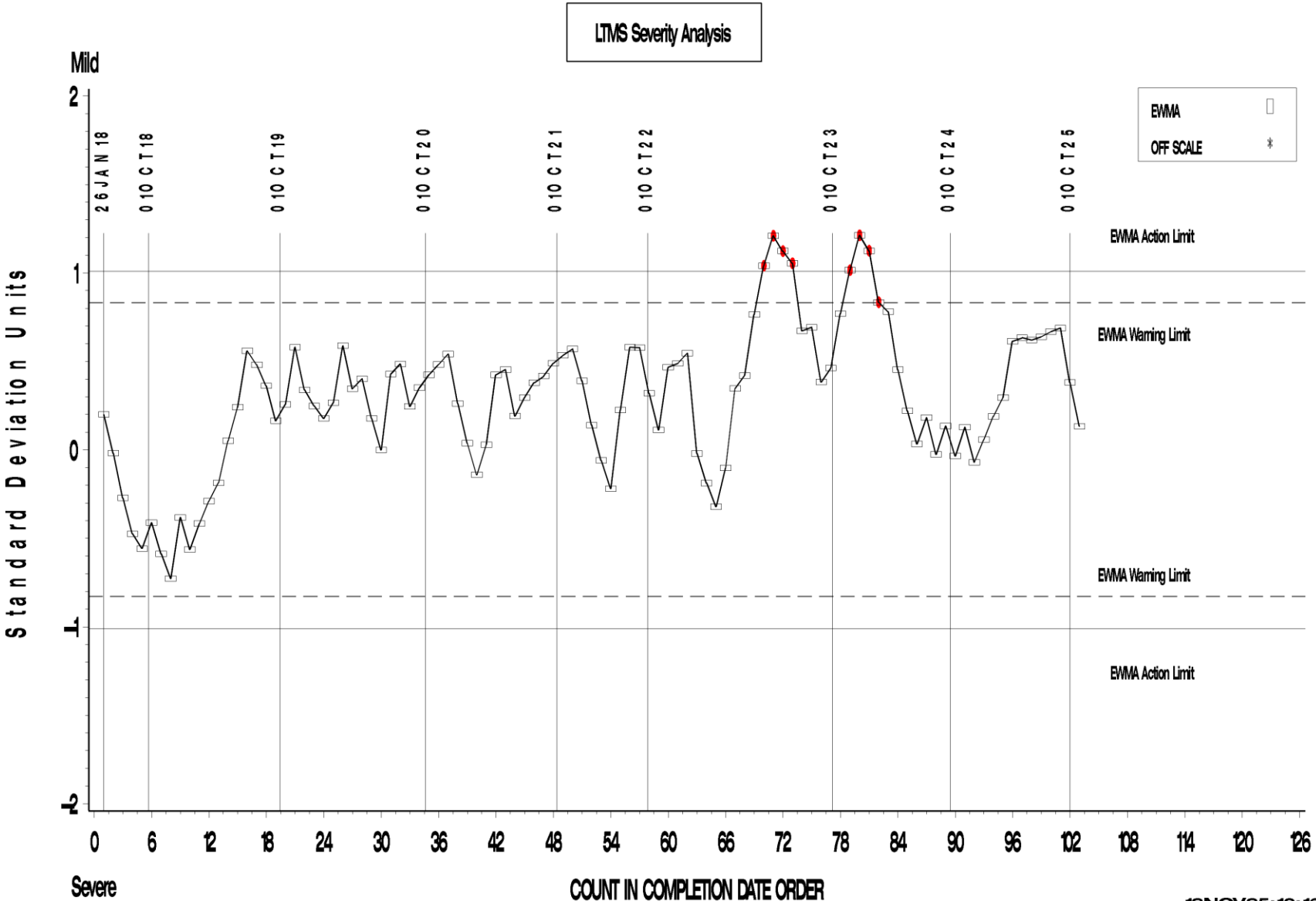
CUSUM Severity Analysis



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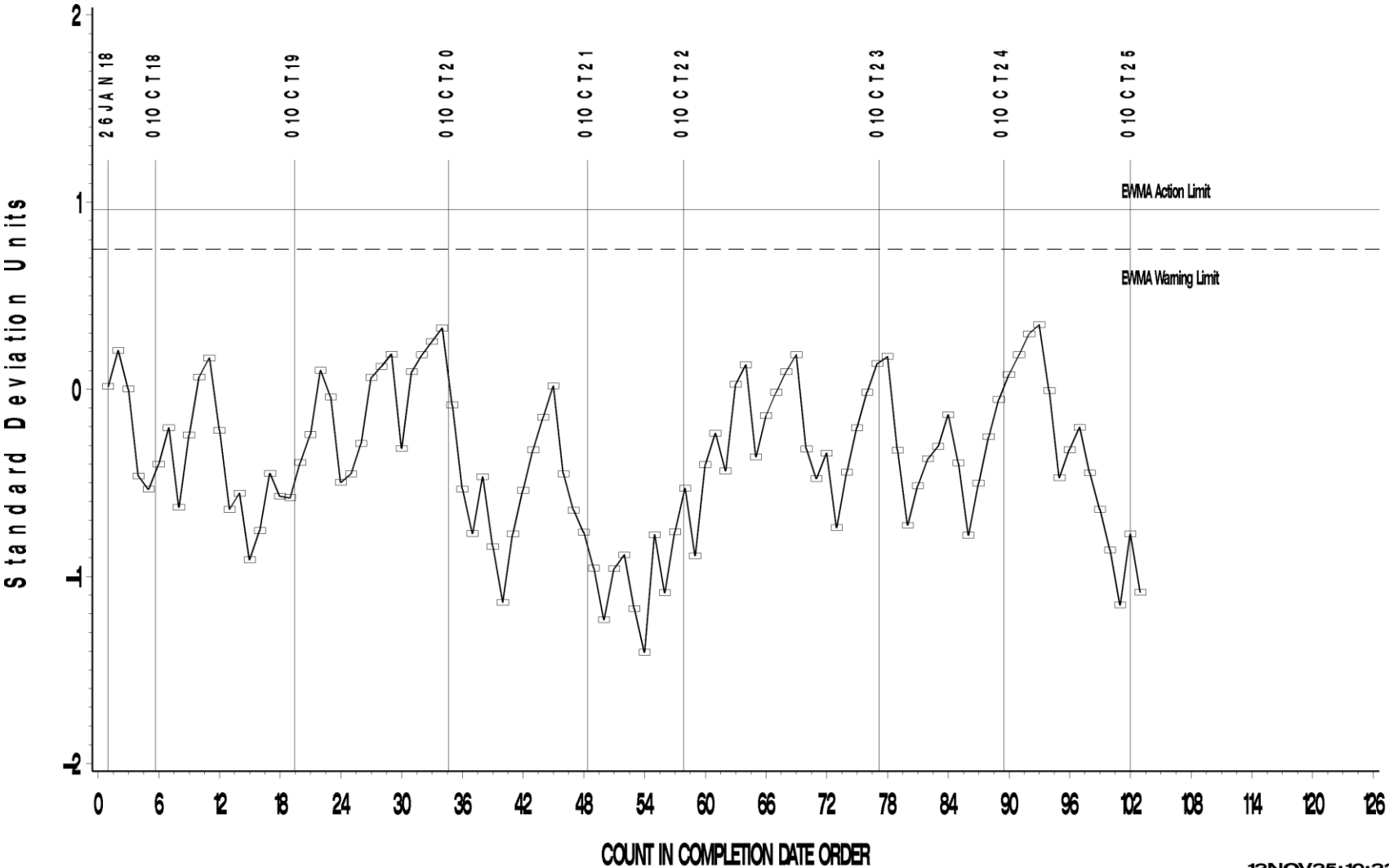


FINAL PINION GEAR WEAR



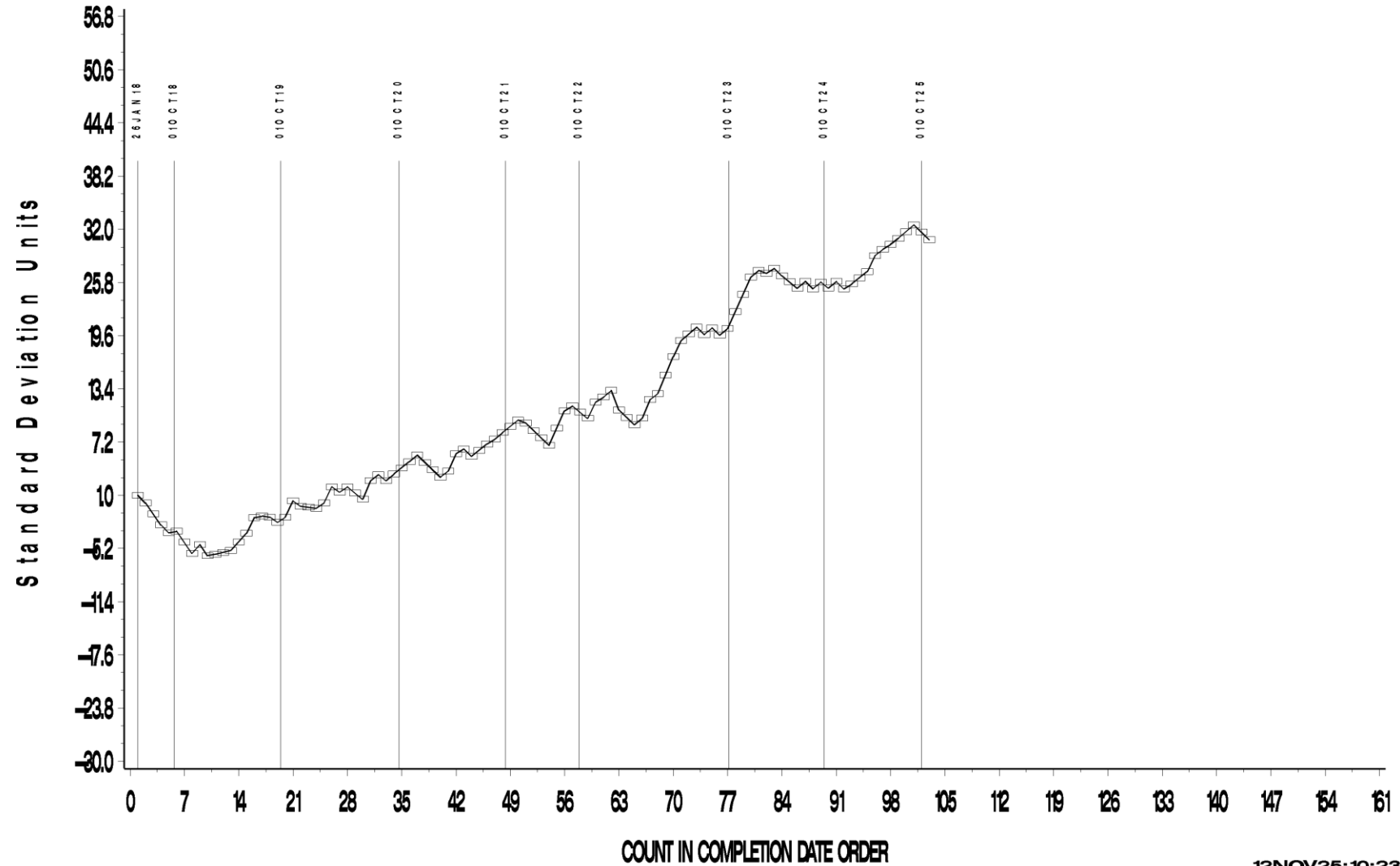
FINAL PINION GEAR WEAR

LTMS Precision Analysis



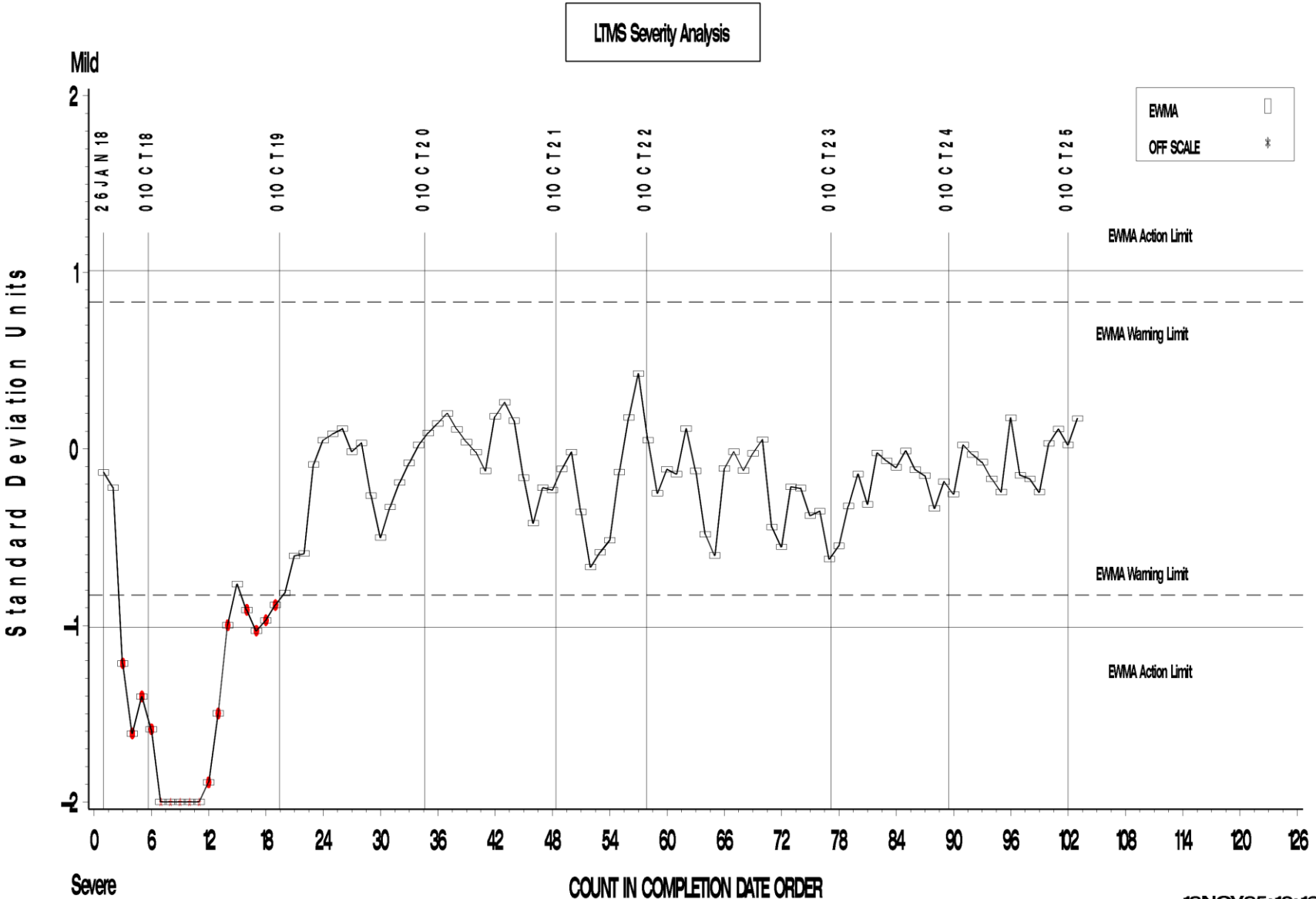
FINAL PINION GEAR WEAR

CUSUM Severity Analysis



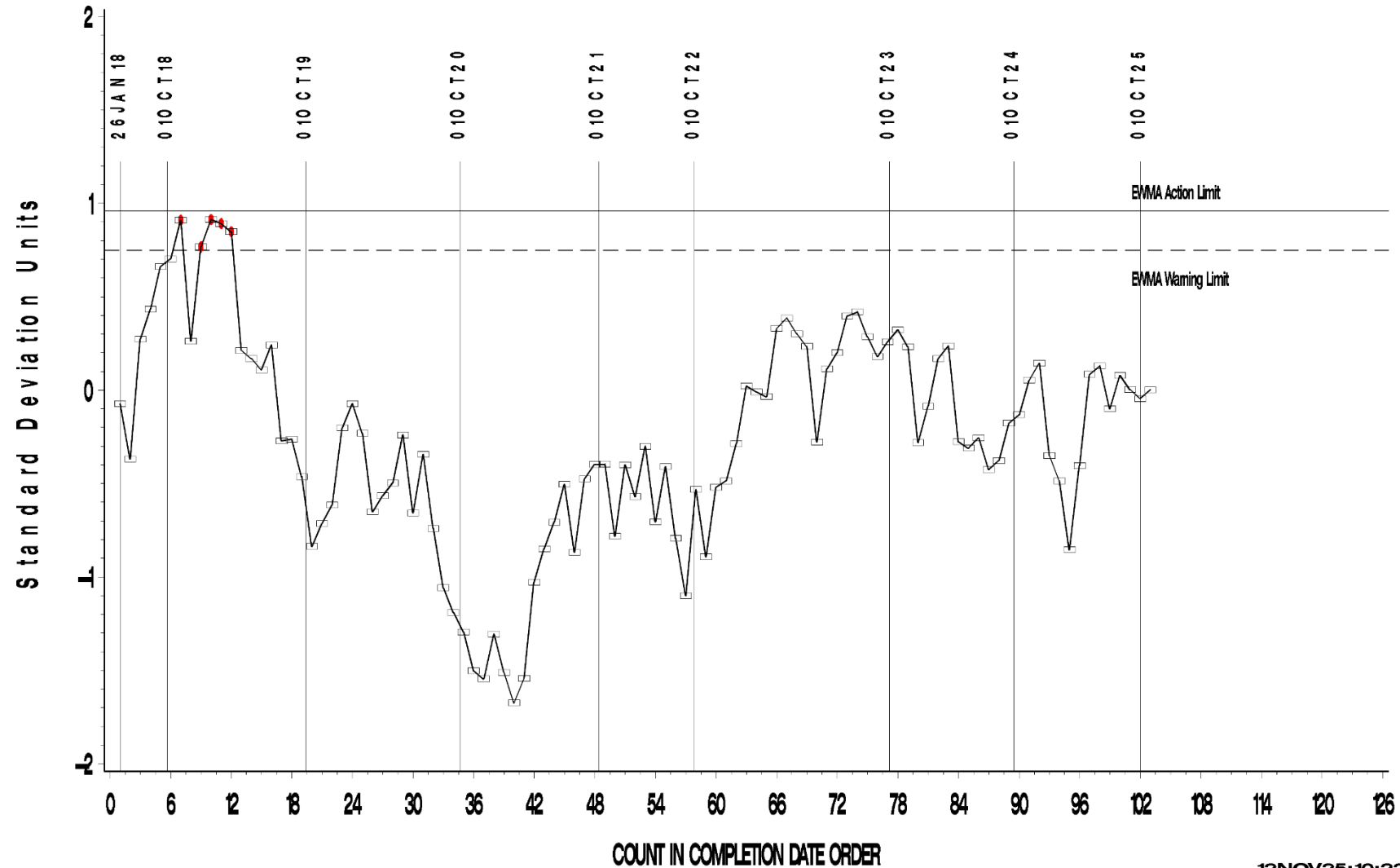


FINAL PINION GEAR RIPPLING



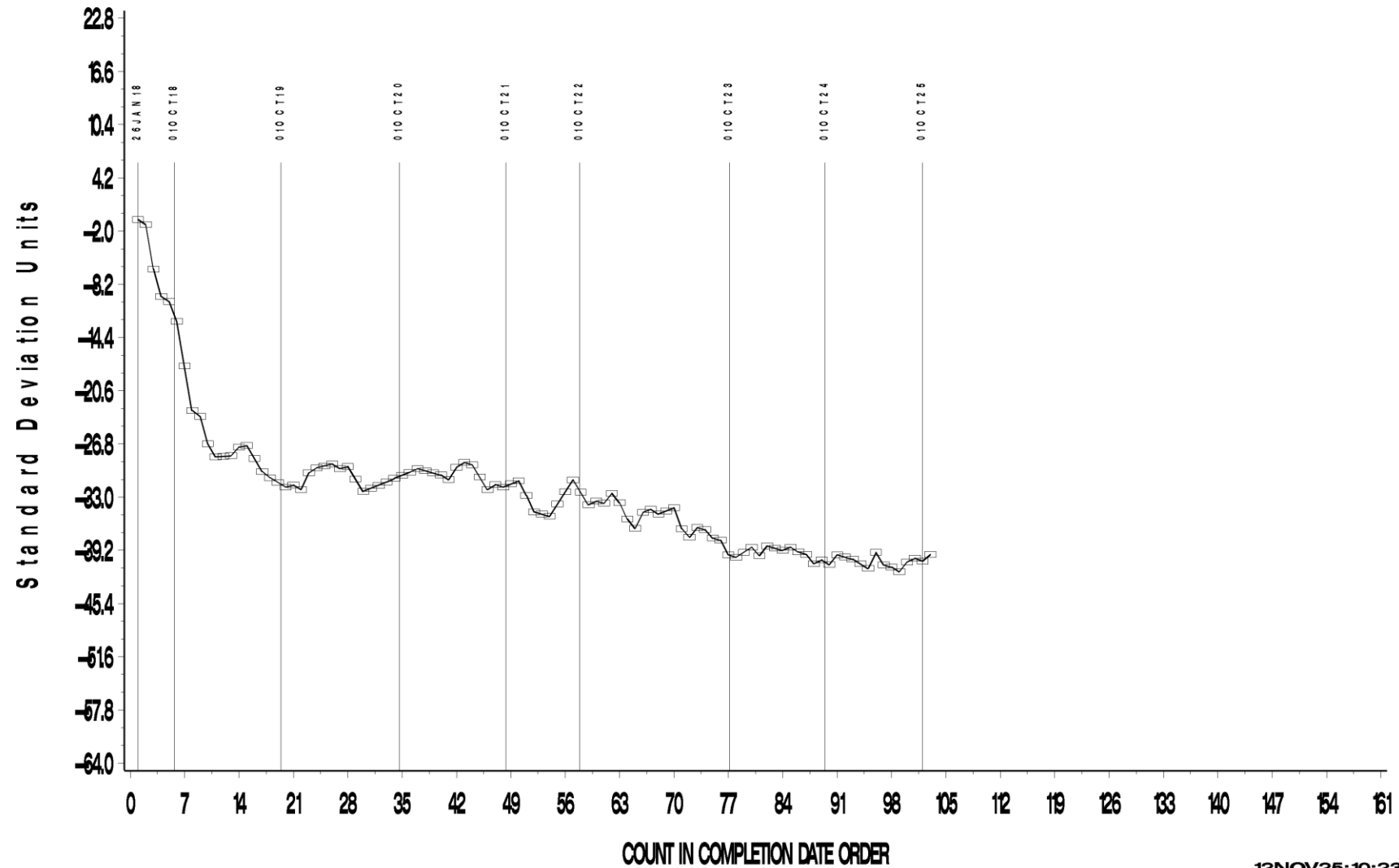
FINAL PINION GEAR RIPPLING

LTMS Precision Analysis

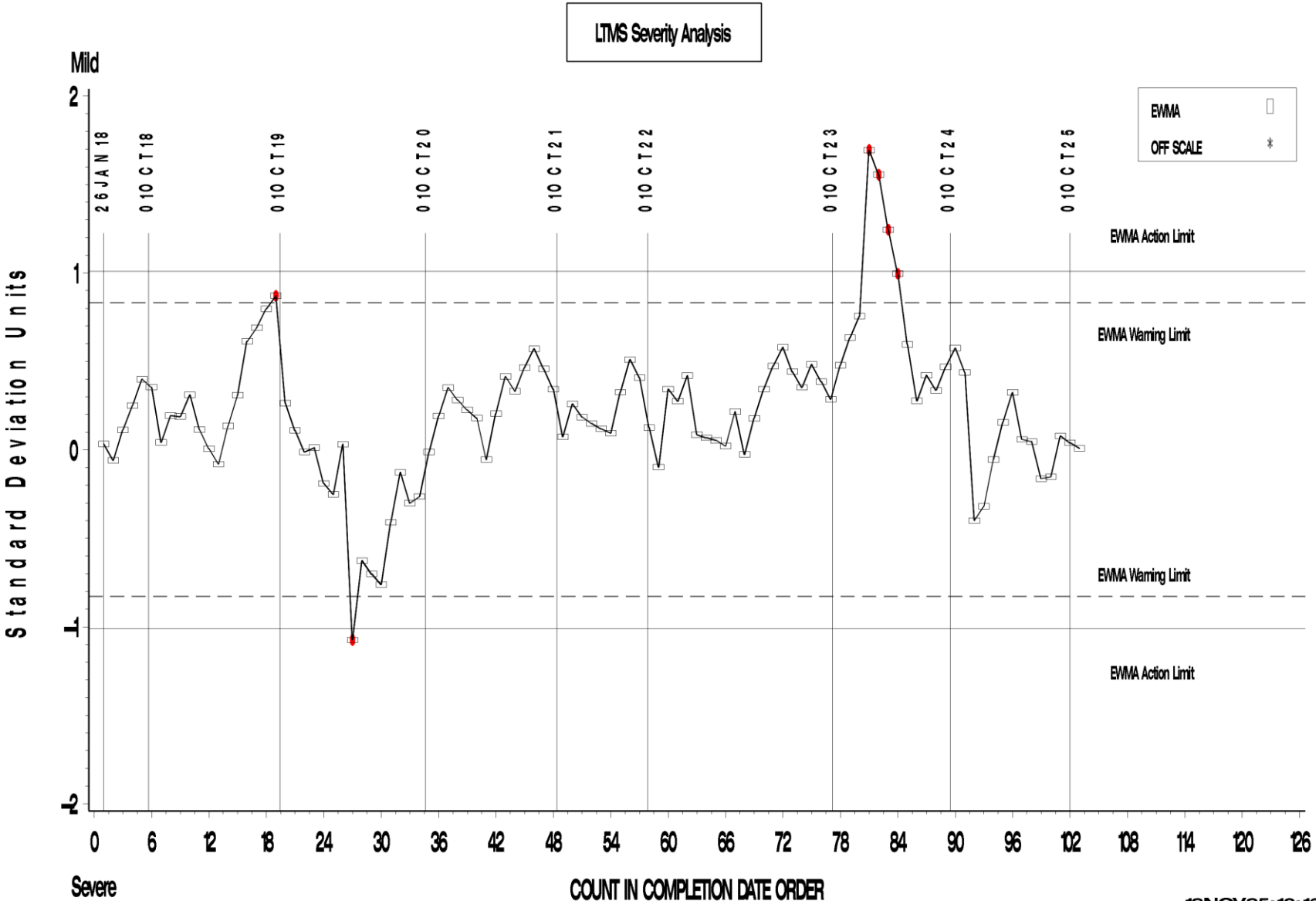


FINAL PINION GEAR RIPPLING

CUSUM Severity Analysis



FINAL PINION GEAR RIDGING

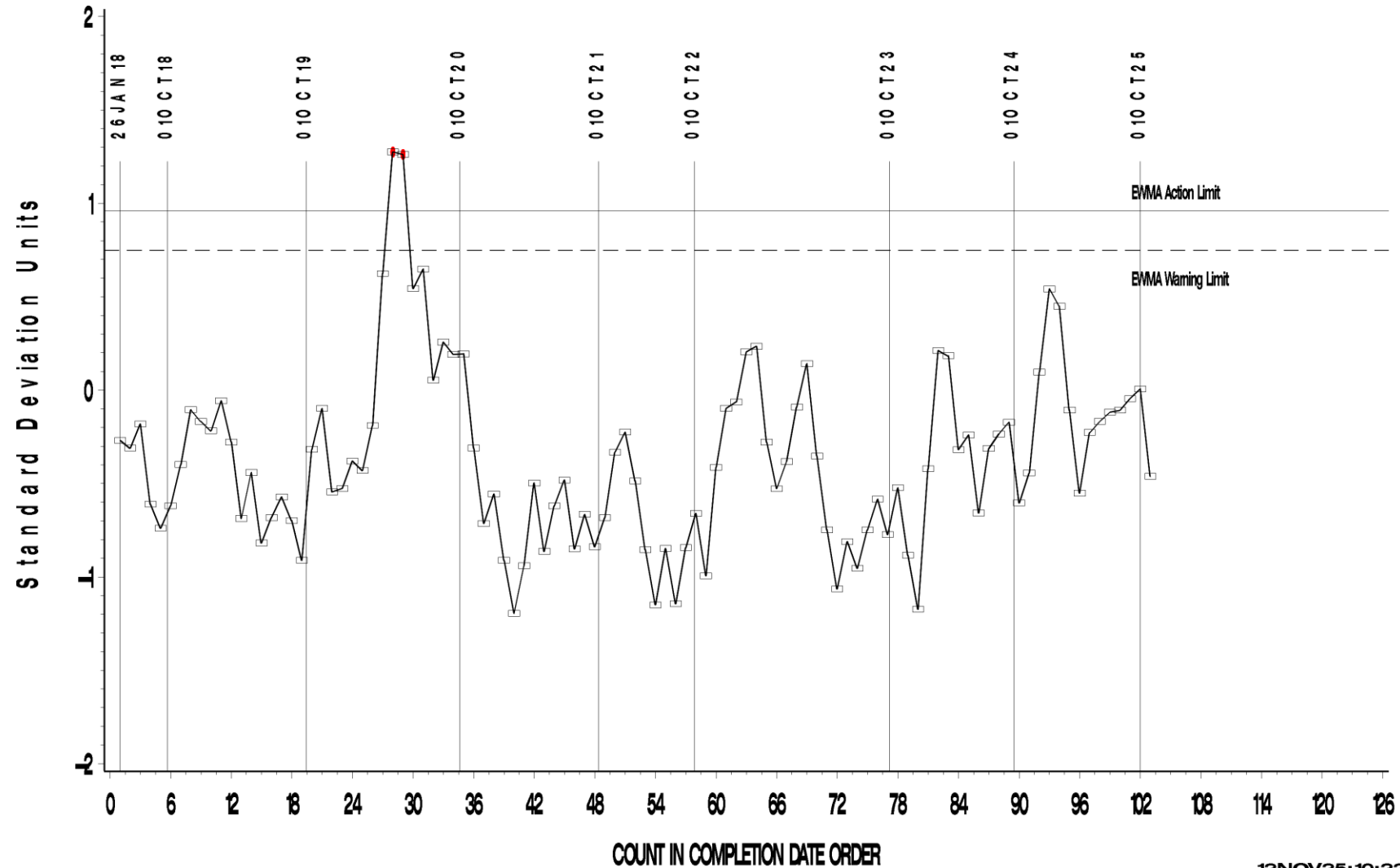


L-37-1 UNCOATED INDUSTRY OPERATIONALLY VALID DATA



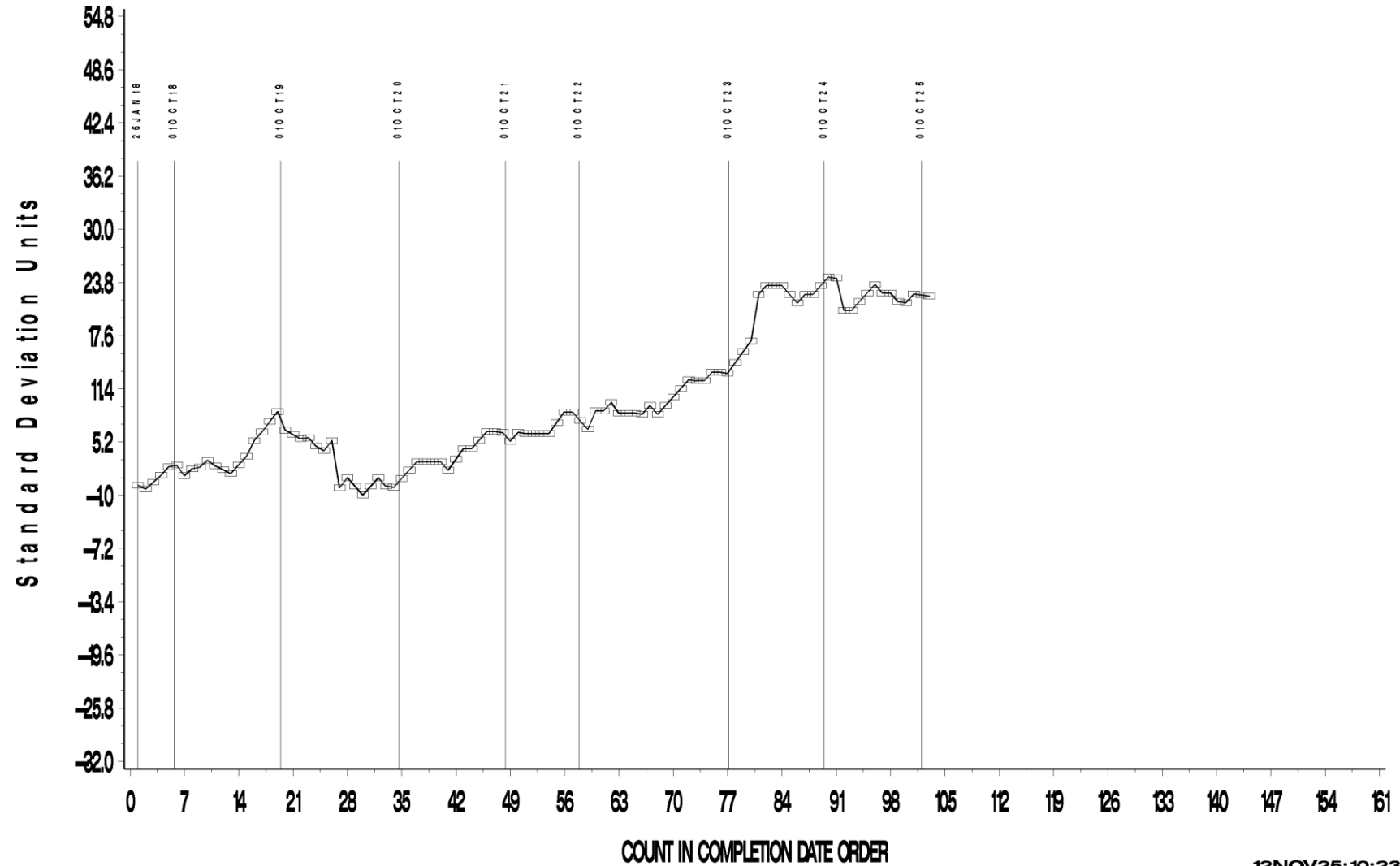
FINAL PINION GEAR RIDGING

LTMS Precision Analysis

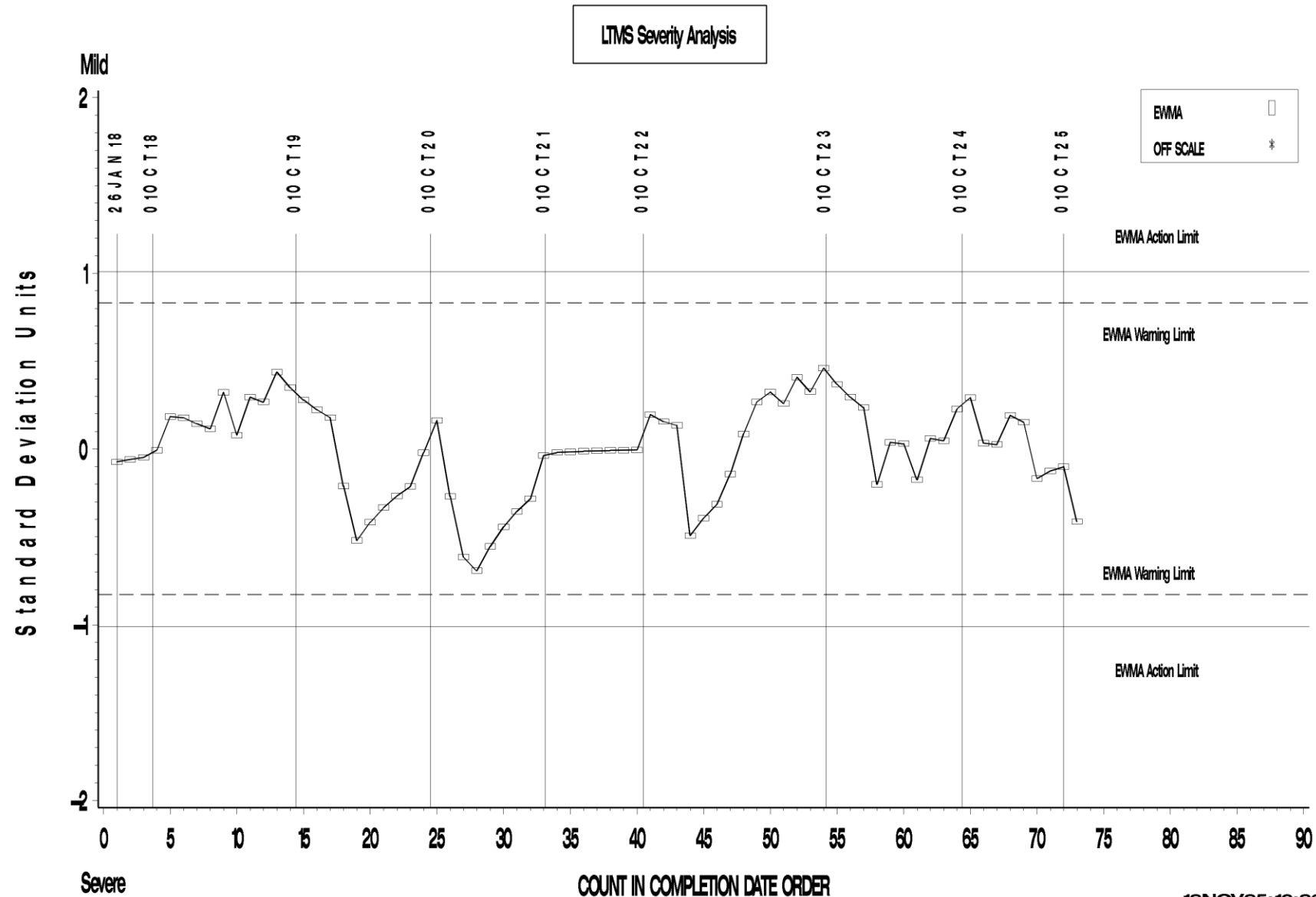


FINAL PINION GEAR RIDGING

CUSUM Severity Analysis



L-37-1 UNCOATED INDUSTRY OPERATIONALLY VALID DATA
IND not in ('155-1', '155-2')
FINAL PINION GEAR PITTING/SPALLING

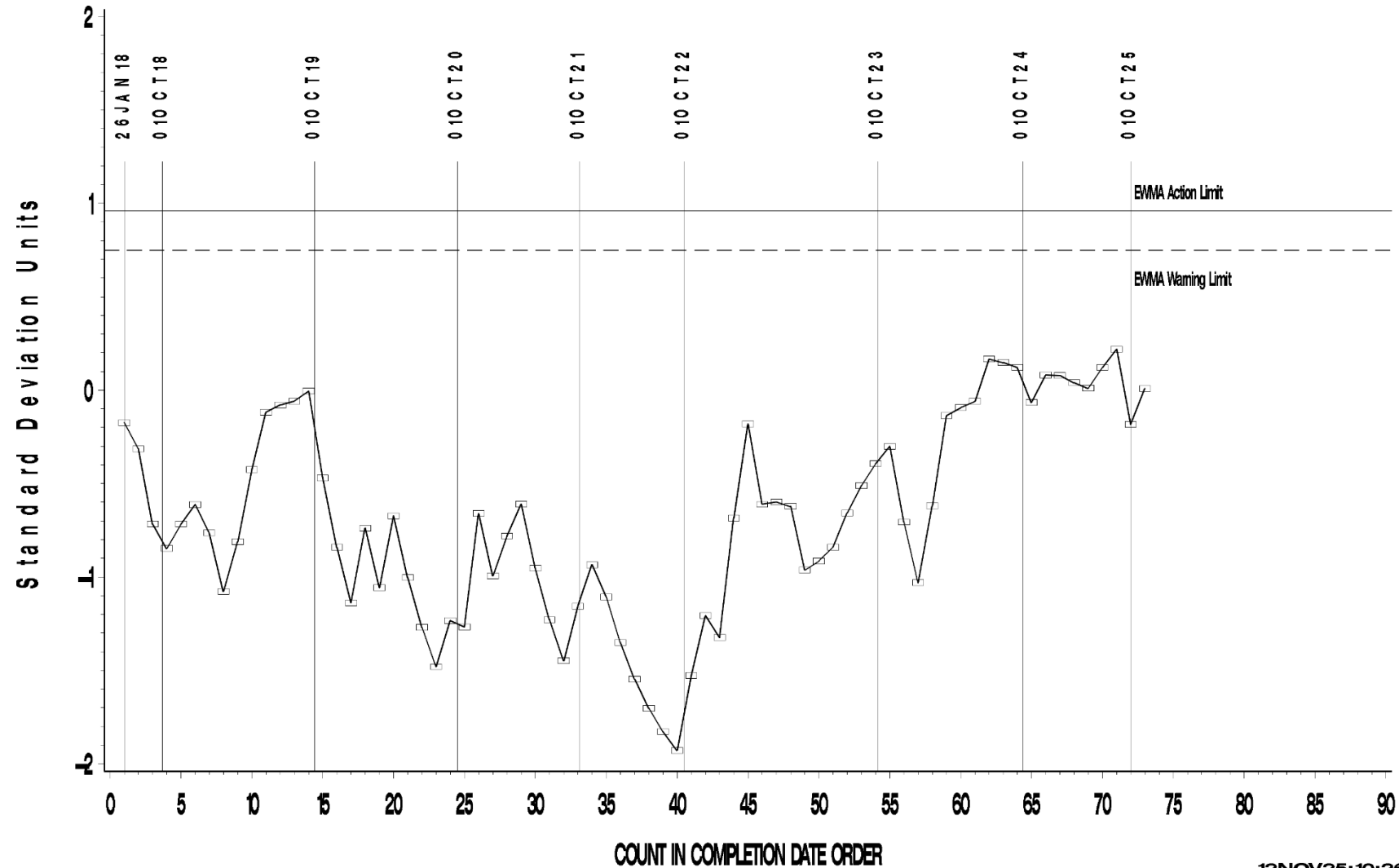


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

L-37-1 UNCOATED INDUSTRY OPERATIONALLY VALID DATA
IND not in ('155-1', '155-2')
FINAL PINION GEAR PITTING/SPALLING



LTMS Precision Analysis



Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

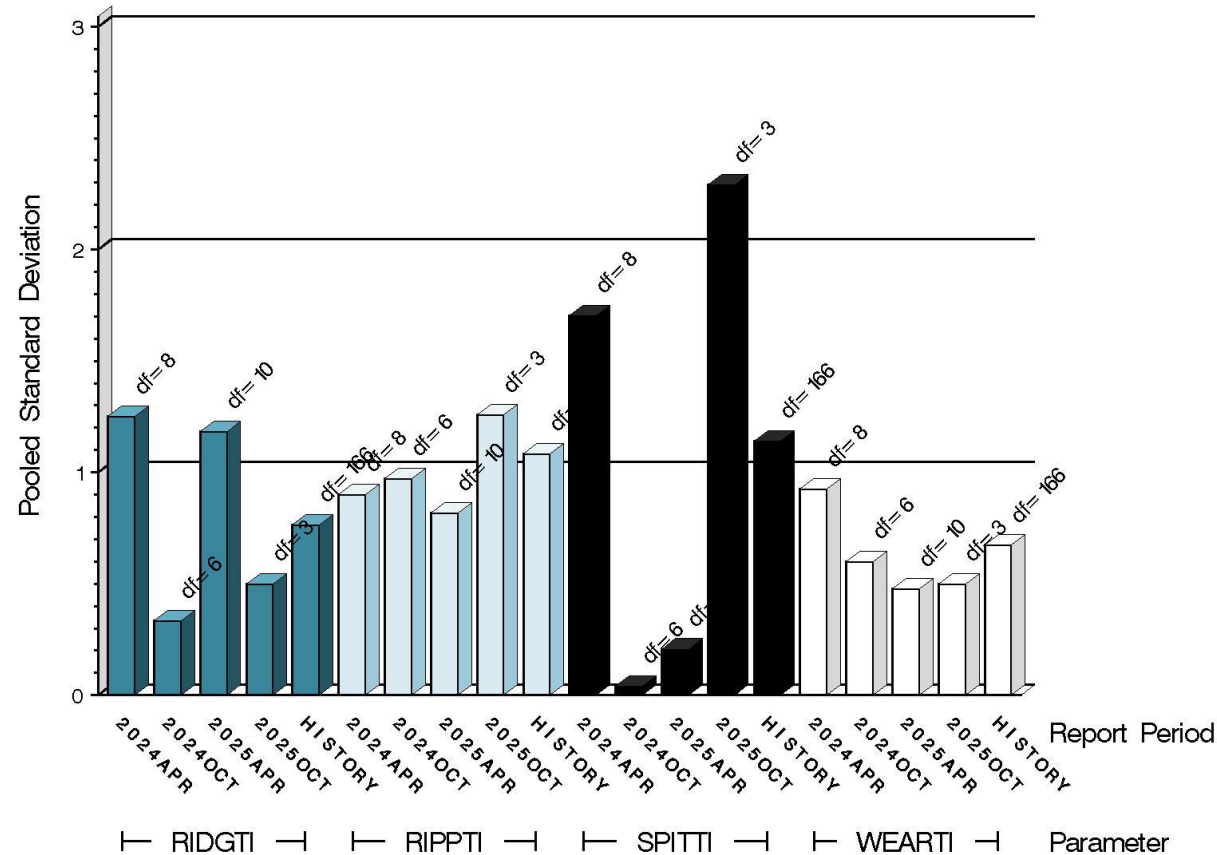
A Program of ASTM International

Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations



L-37-1 Test Precision

TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



10/09/07 12/NOV2025

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L-42

➡➡ October 2025

L-42 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	17
Unacceptable Calibration Test	OC	0
Operationally Invalid Calibration Test	LC	3
Acceptable Hardware Run	NI	5
Aborted Hardware Run	XI	2
Acceptable Discrimination Test	AS	4
Operationally Invalid Discrimination Test	LS	2
Unacceptable Discrimination Test	MS	1
Total		34

L-42 Failed Tests

Test Status	Validity Code	#
Unacceptable Calibration Test	OC	0
Total		

L-42 Lost Tests

Test Status	Validity Code	#
Faulty pinion torque meter	LC	3
High temp	XI	1
Axle noise	XI	1
Faulty pinion torque meter	LS	2
Unacceptable discrimination	MS	1
Total		8

L-42 Summary of Severity & Precision

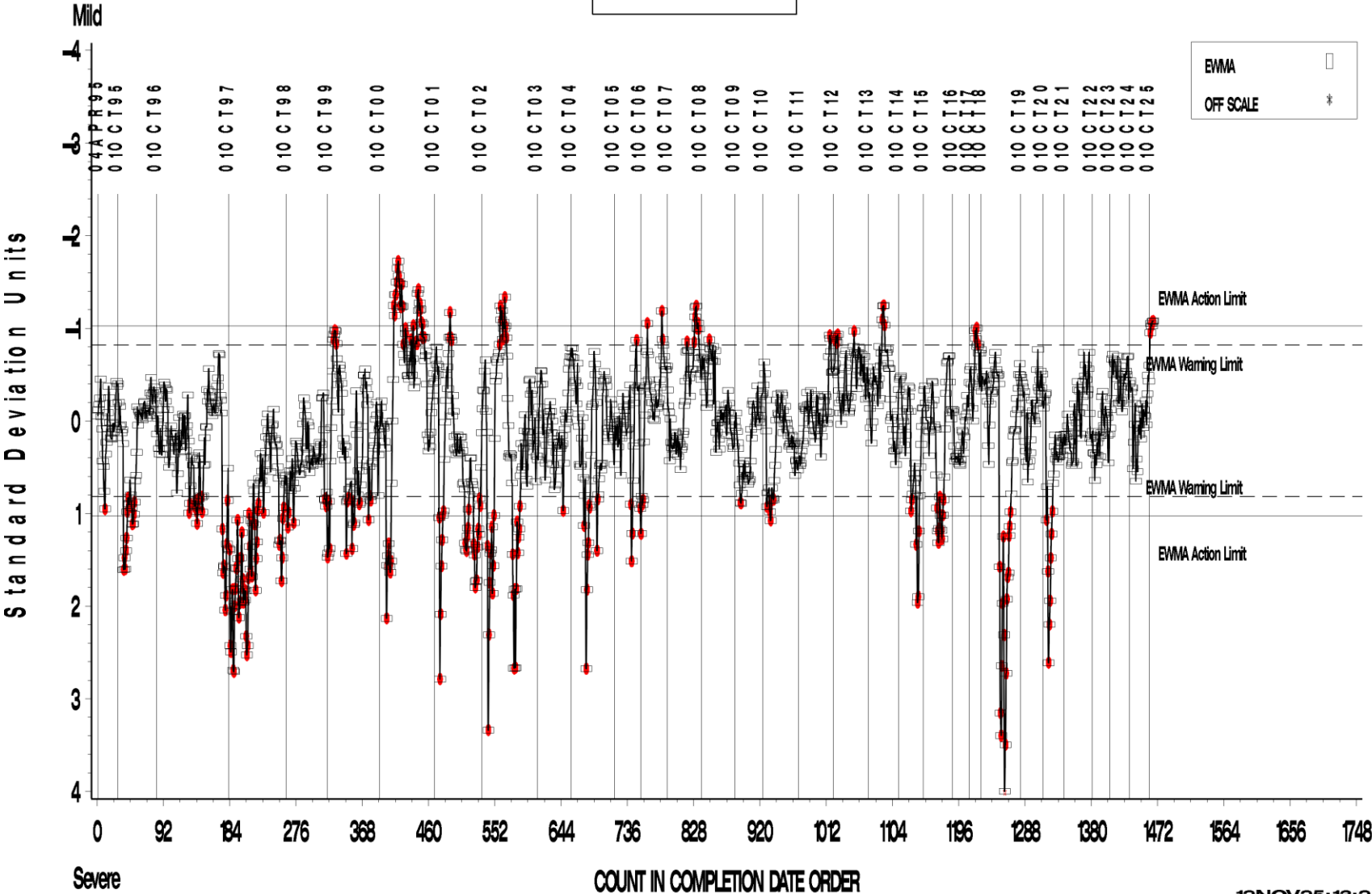
Severity
Pinion scoring ended the reporting period exceeding the action limit in the mild direction.
Precision
Pinion scoring started the period exceeding the action limit, but returned within the limits.

L-42 INDUSTRY OPERATIONALLY VALID DATA



FINAL EOT PINION SCORING COAST SIDE

LTMS Severity Analysis

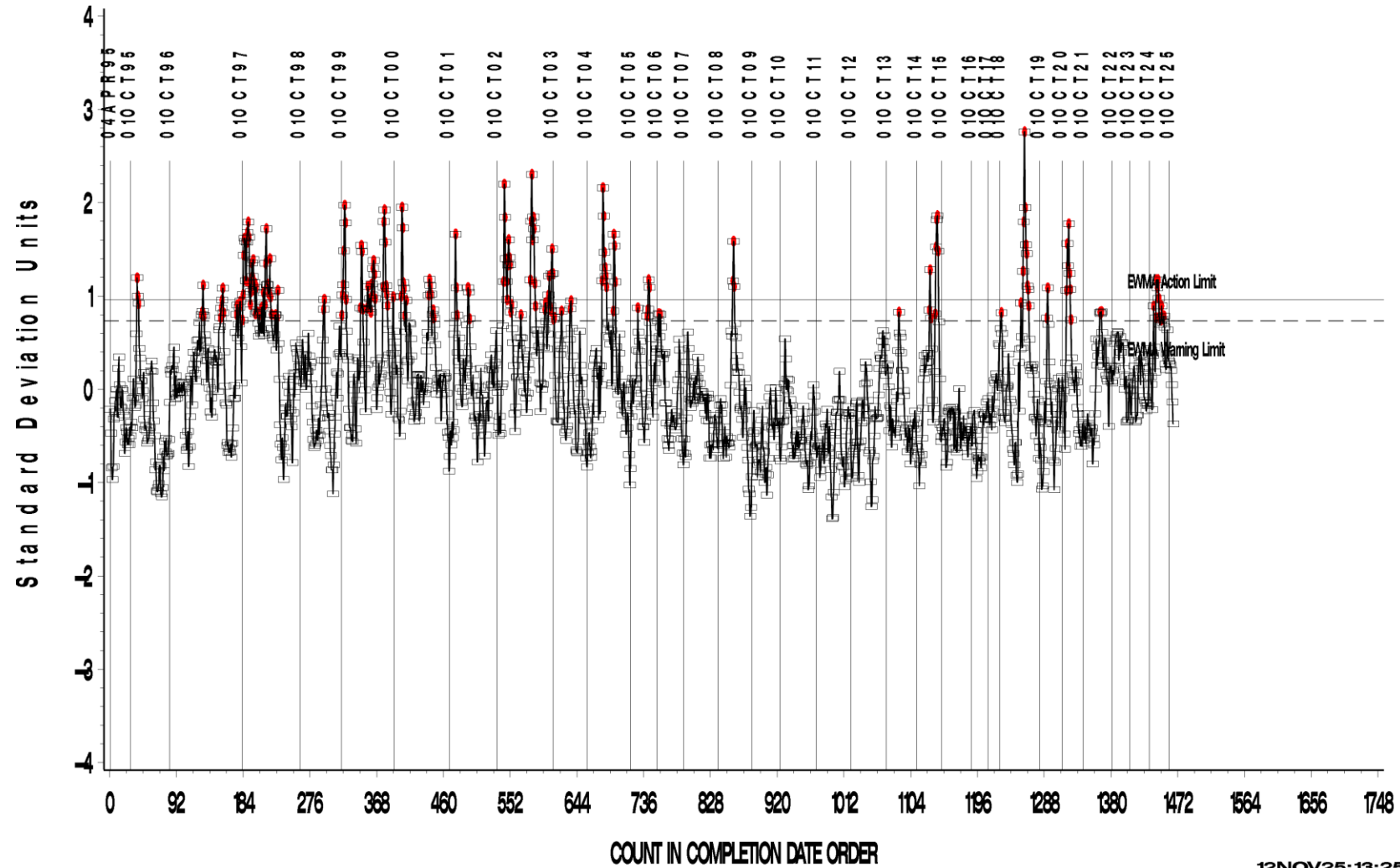


L-42 INDUSTRY OPERATIONALLY VALID DATA



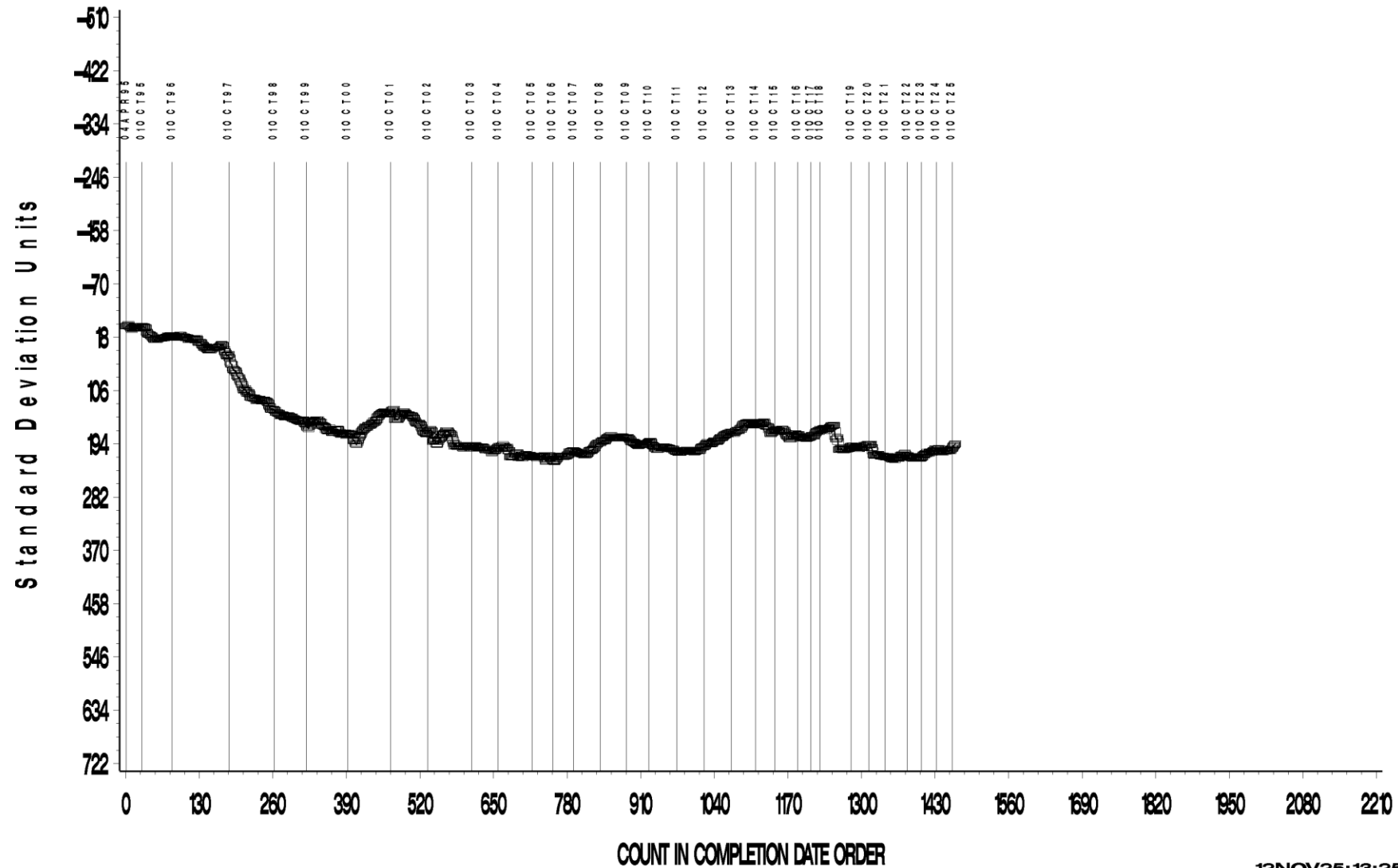
FINAL EOT PINION SCORING COAST SIDE

LTMS Precision Analysis



FINAL EOT PINION SCORING COAST SIDE

CUSUM Severity Analysis



L-42 Test Precision

		Pooled Standard Deviation			
Lab	Coast Side Pinion Scoring Δ/s	df	Coast Side Pinion Scoring	Coast Side Ring Scoring	Shock Series I Coast Side Ring Scoring
A	-1.28	3	1.41	1.15	0.00
B	1.09	1	0.00	1.41	0.00
D	-0.24	5	5.16	5.27	0.00
G	-0.23	3	2.99	3.50	0.00

[Return to Table of Contents](#)

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HTCT

»» October 2025

HTCT Activity

- No HTCT test activity this reporting period.

OSCT

➡➡ October 2025

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OSCT Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	14
Unacceptable Calibration Test	OC	0
Unacceptable Info Run (Elastomer Approval)	MI	0
Acceptable Info Run (Elastomer Approval)	NI	24
Total		38

OSCT – Failed Tests

Test Status	Validity Code	#
No unacceptable tests this period	OC	0
Total		0

OSCT – Lost Tests

Test Status	Validity Code	#
No lost tests this period		
Total		0

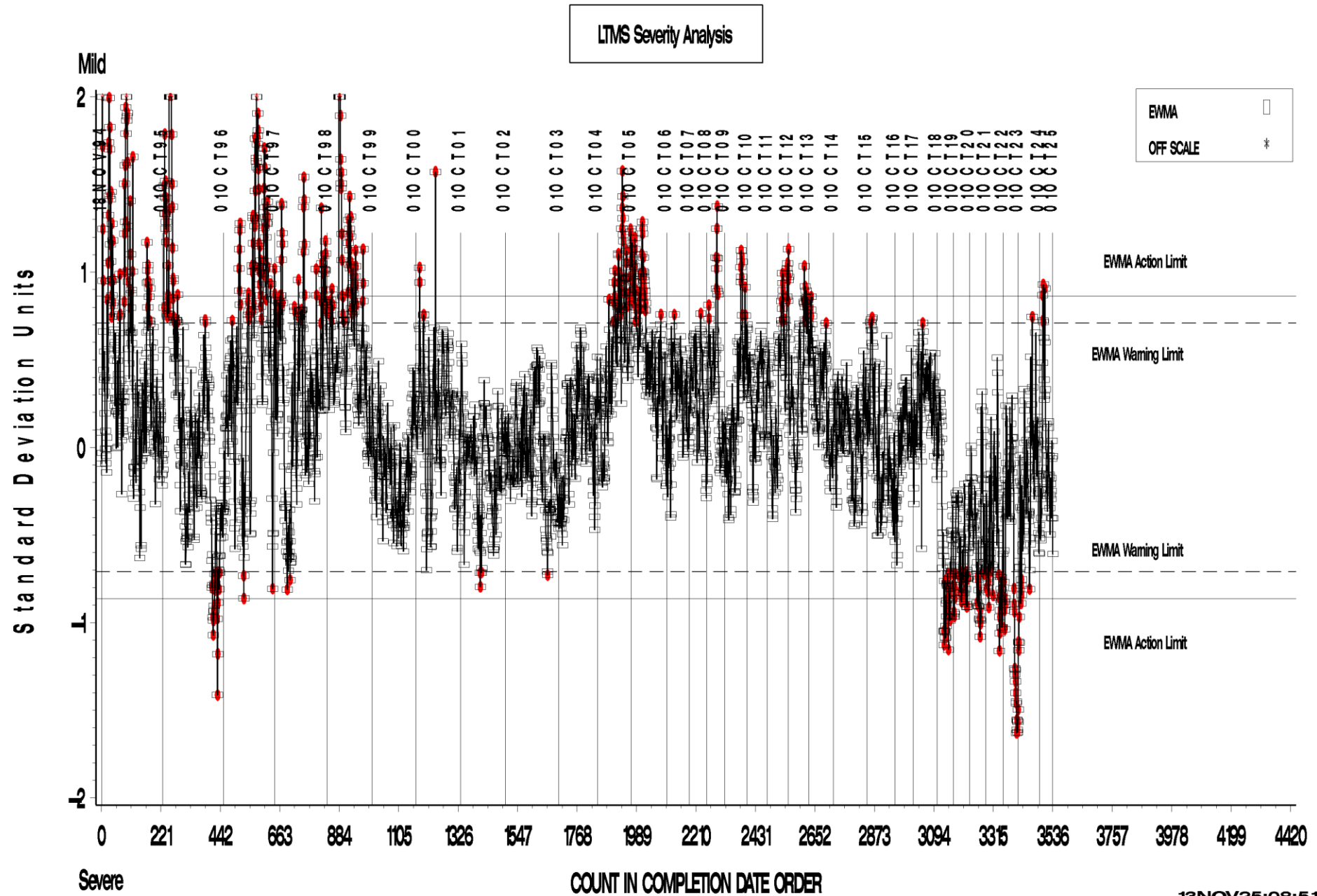
OSCT Test Severity

- **Severity:**
 - The combined elastomer plots show that all parameters remained within the limits this period.
 - The individual elastomer plots showed that NI SAHA and NI PELA both remain outside of the action limits.

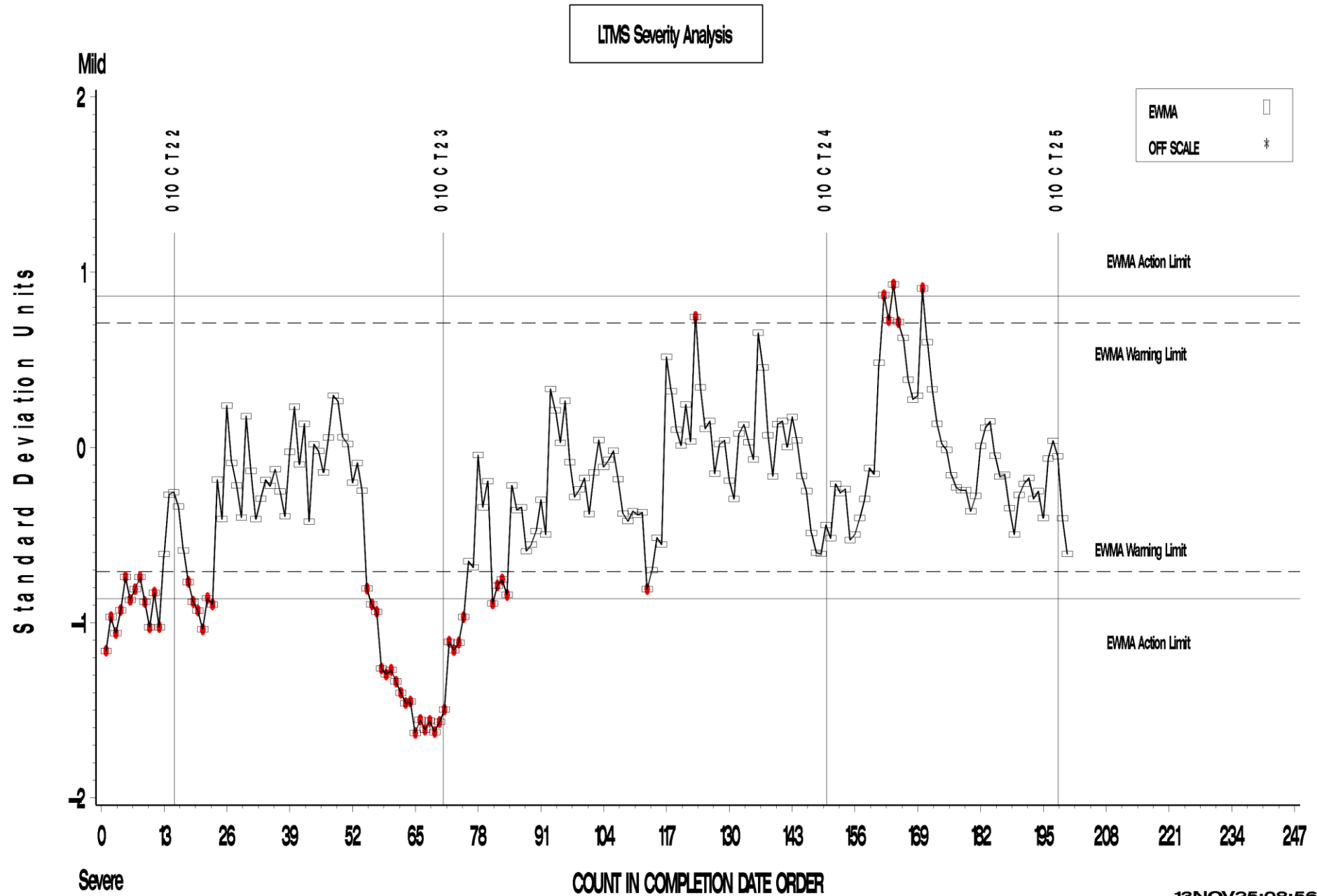
OSCT Test Severity

- Precision:
 - The combined elastomer plots show that all parameters remained within the limits this period.

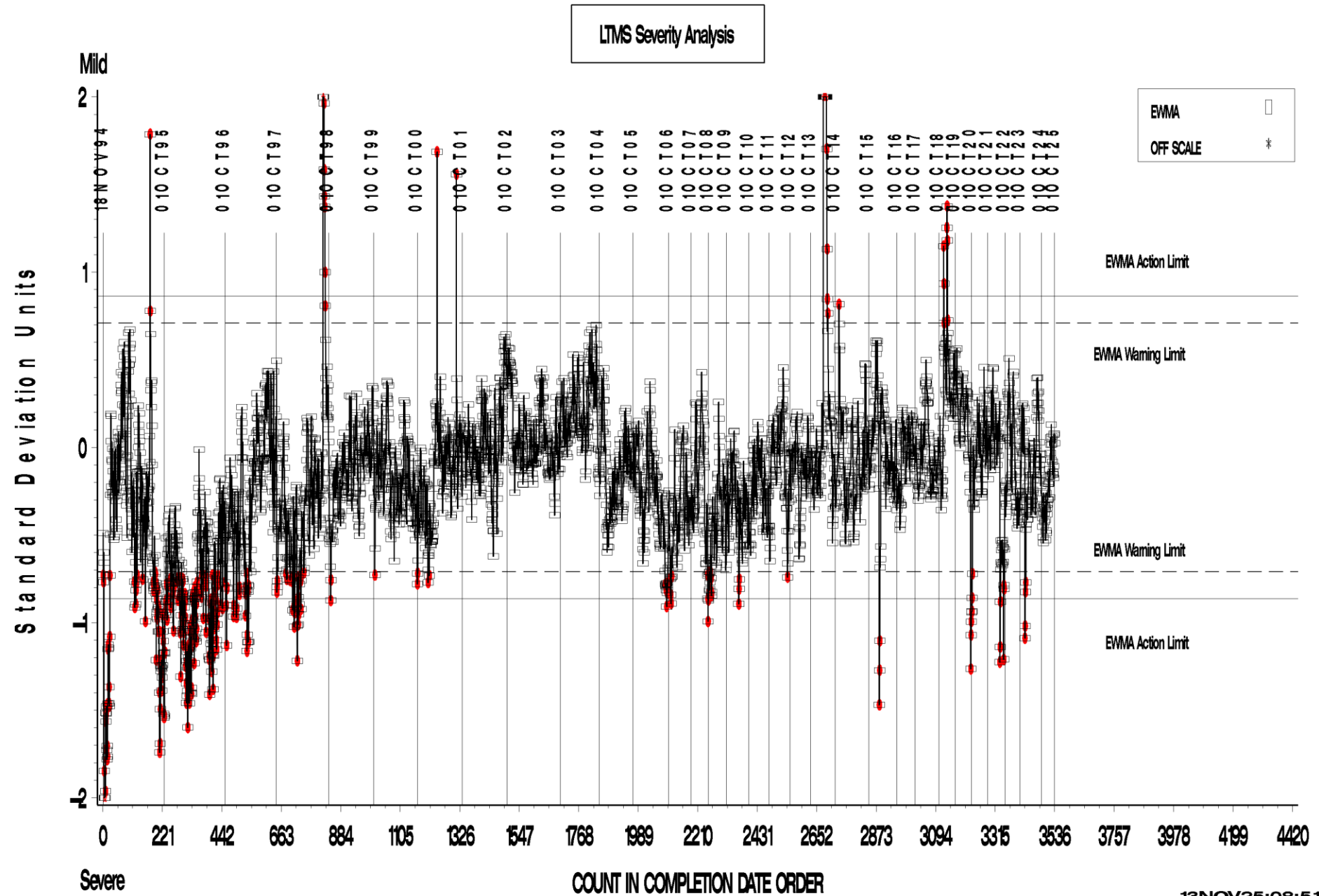
REF. ELONGATION CHANGE AVG.



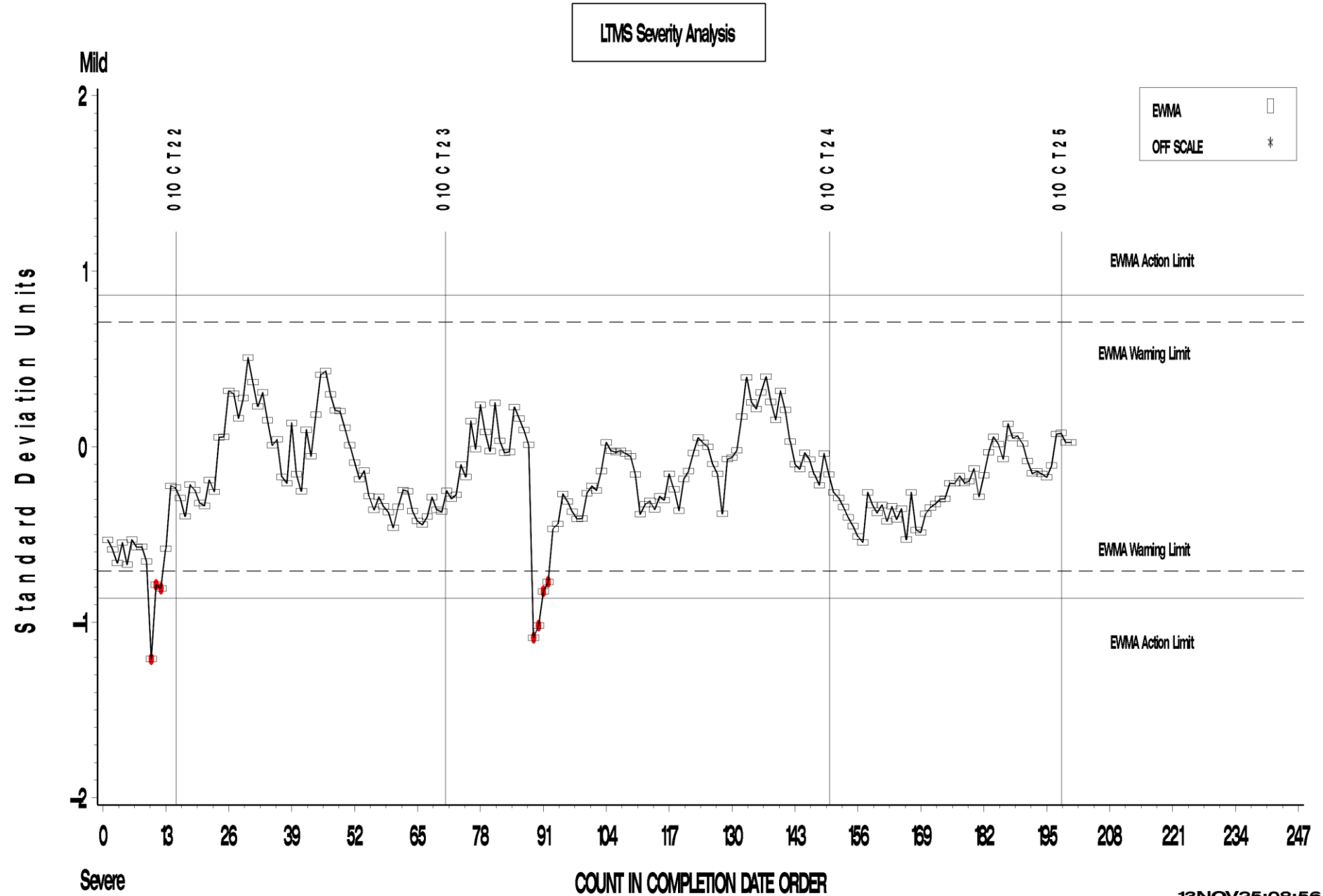
OSCT INDUSTRY OPERATIONALLY VALID DATA
Zoomed to 200 Most Recent Data Points
REF. ELONGATION CHANGE AVG.



REF. PERCENT VOLUME CHANGE AVG.

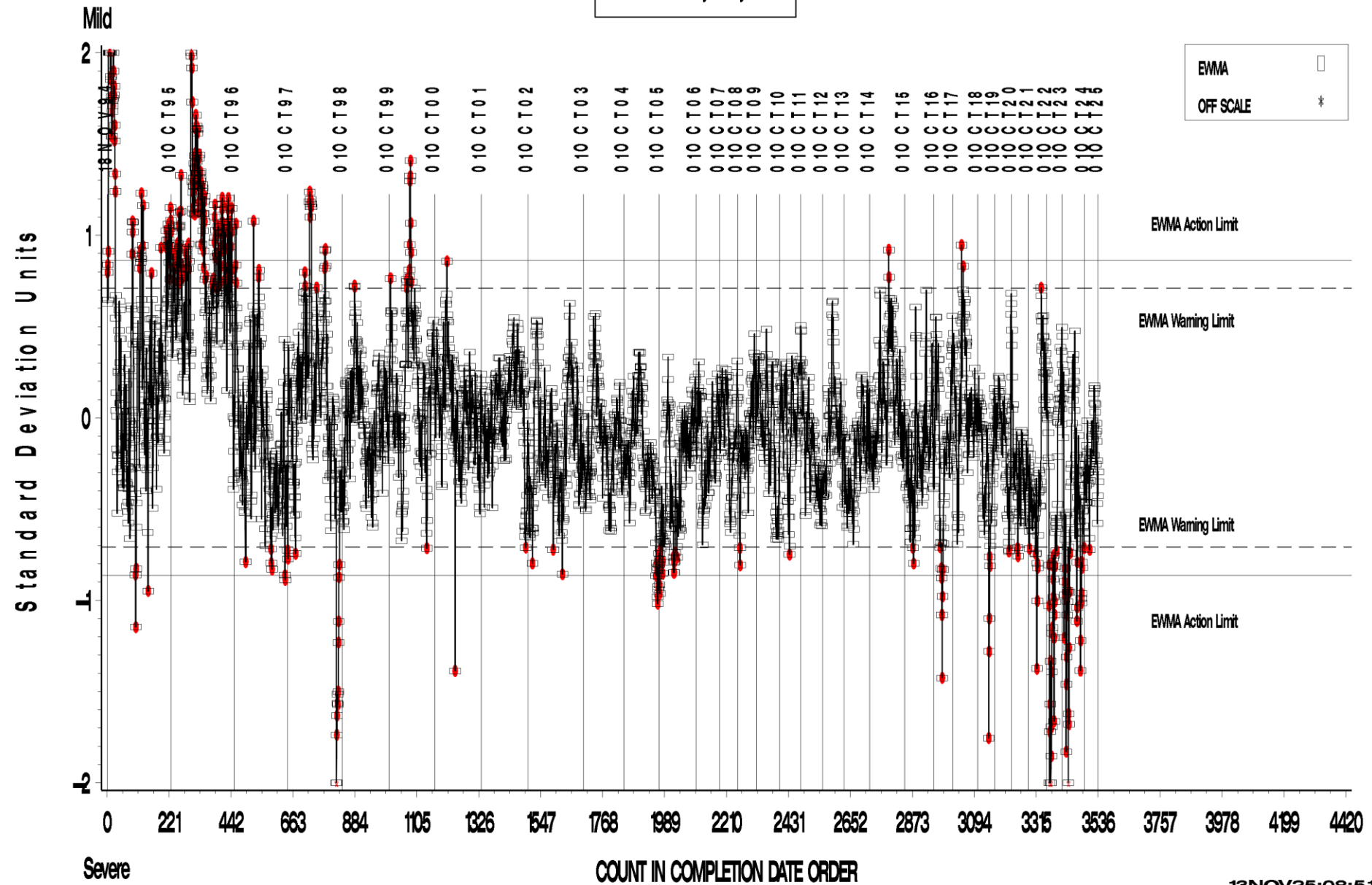


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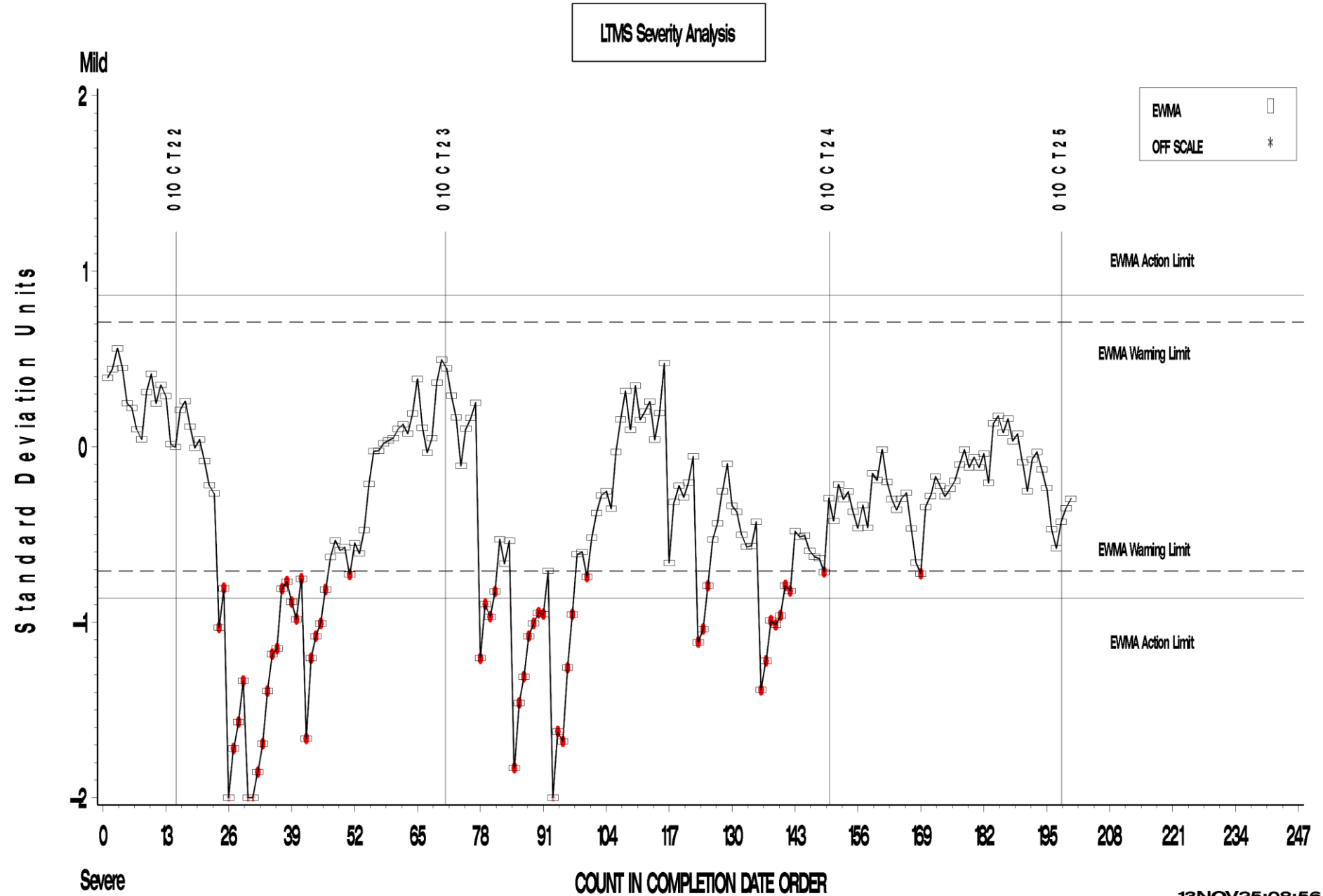


REF. SHORE A HARDNESS CHANGE AVG.

LTMS Severity Analysis

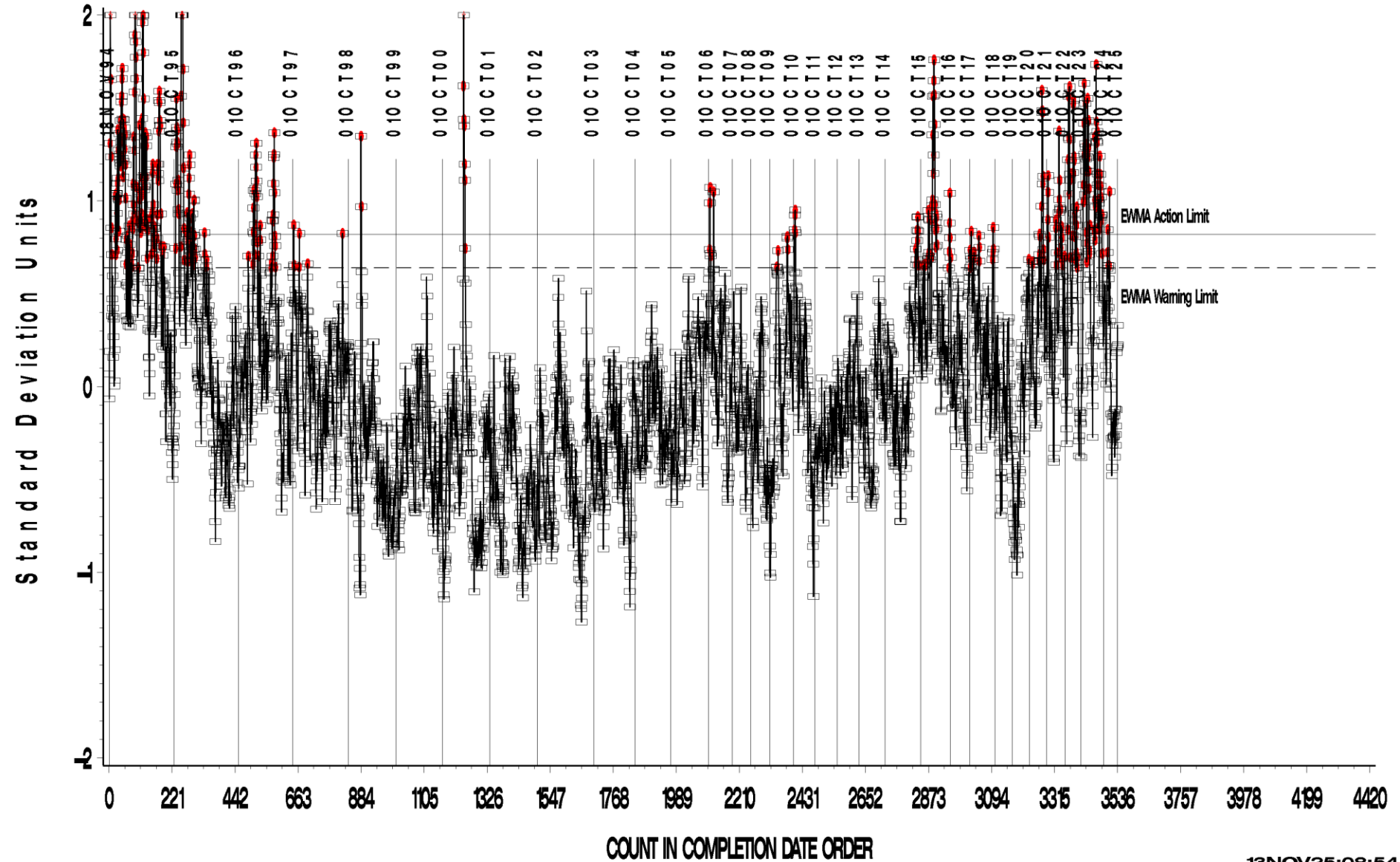


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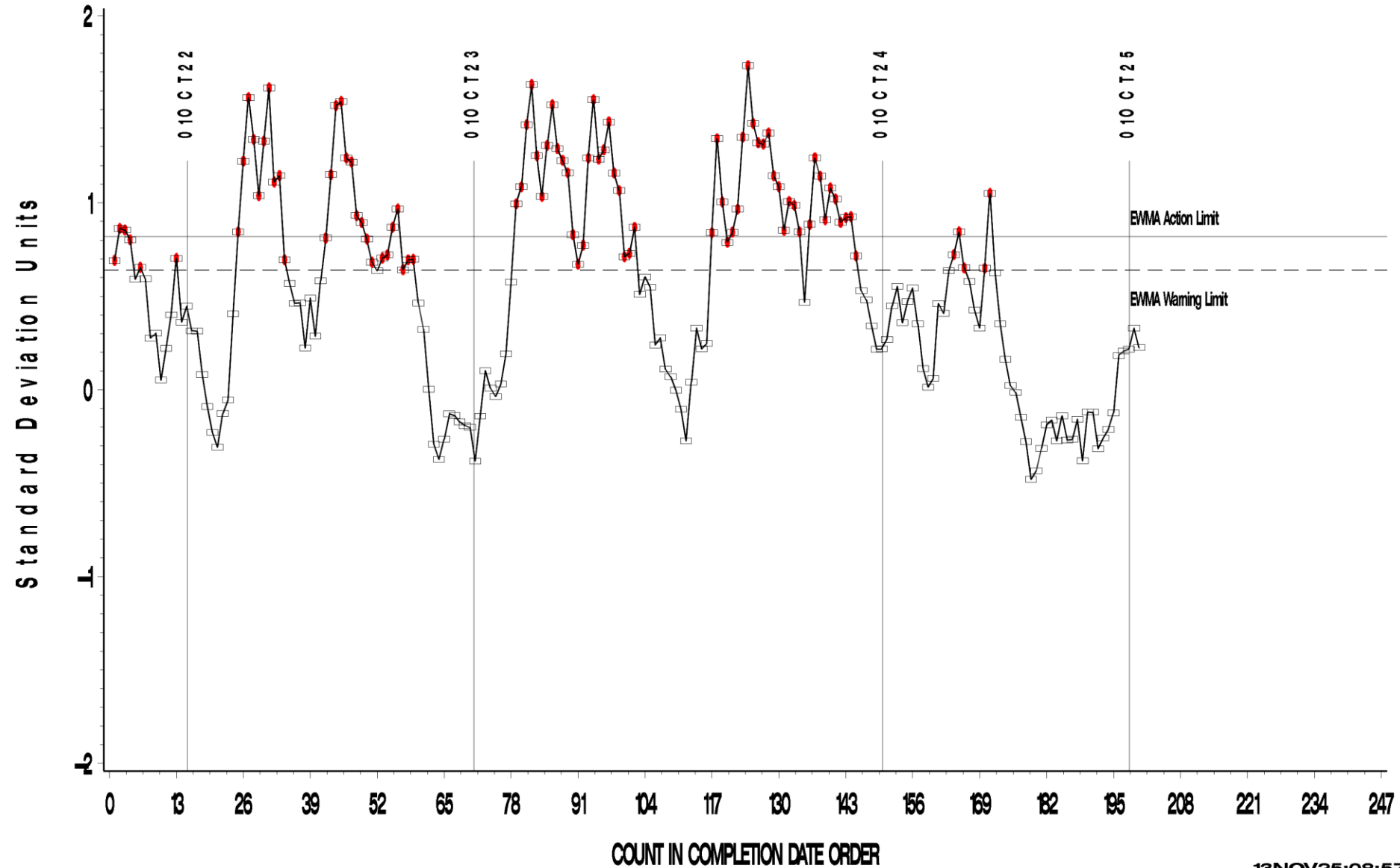
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LTMS Precision Analysis



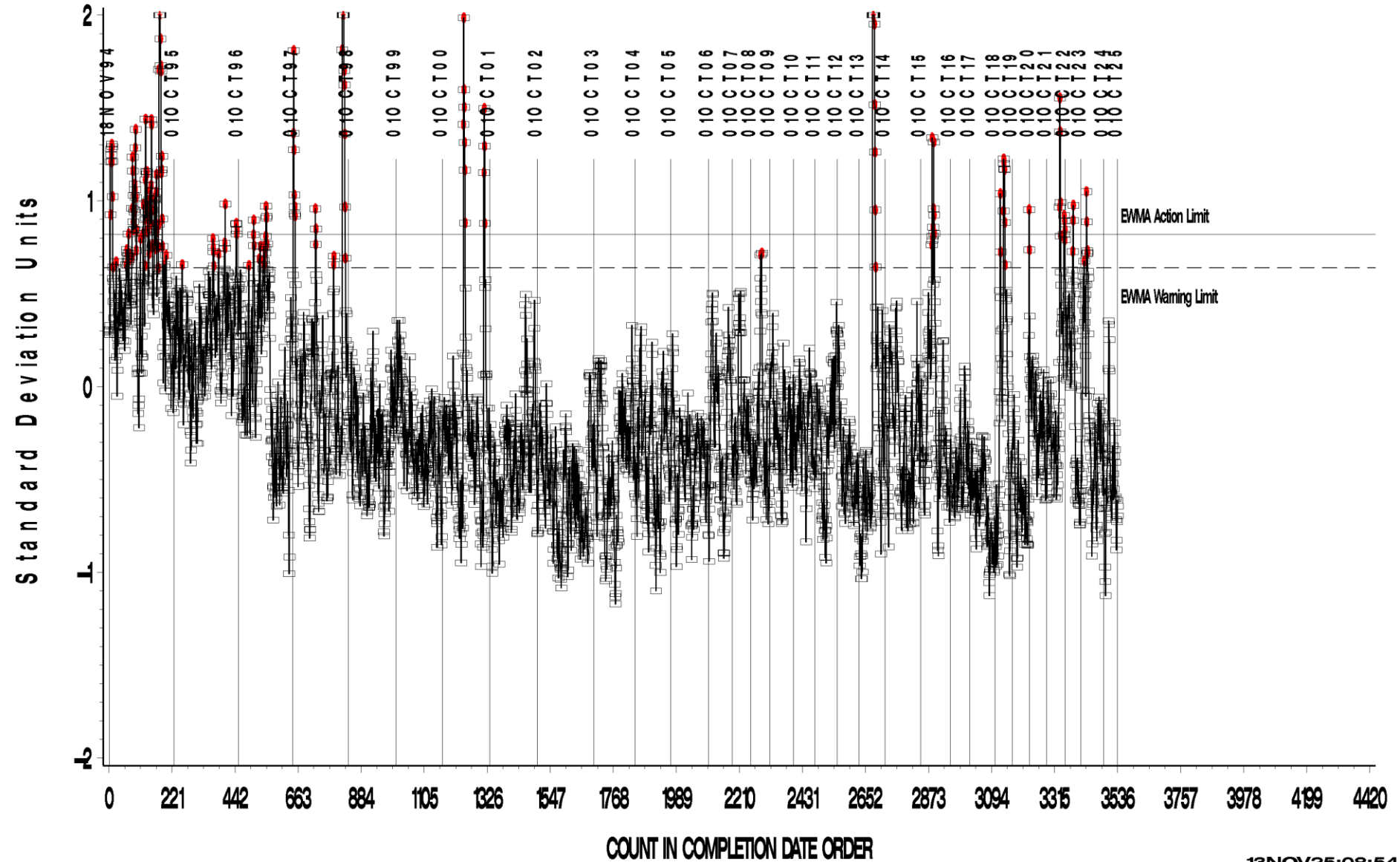
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LTMS Precision Analysis



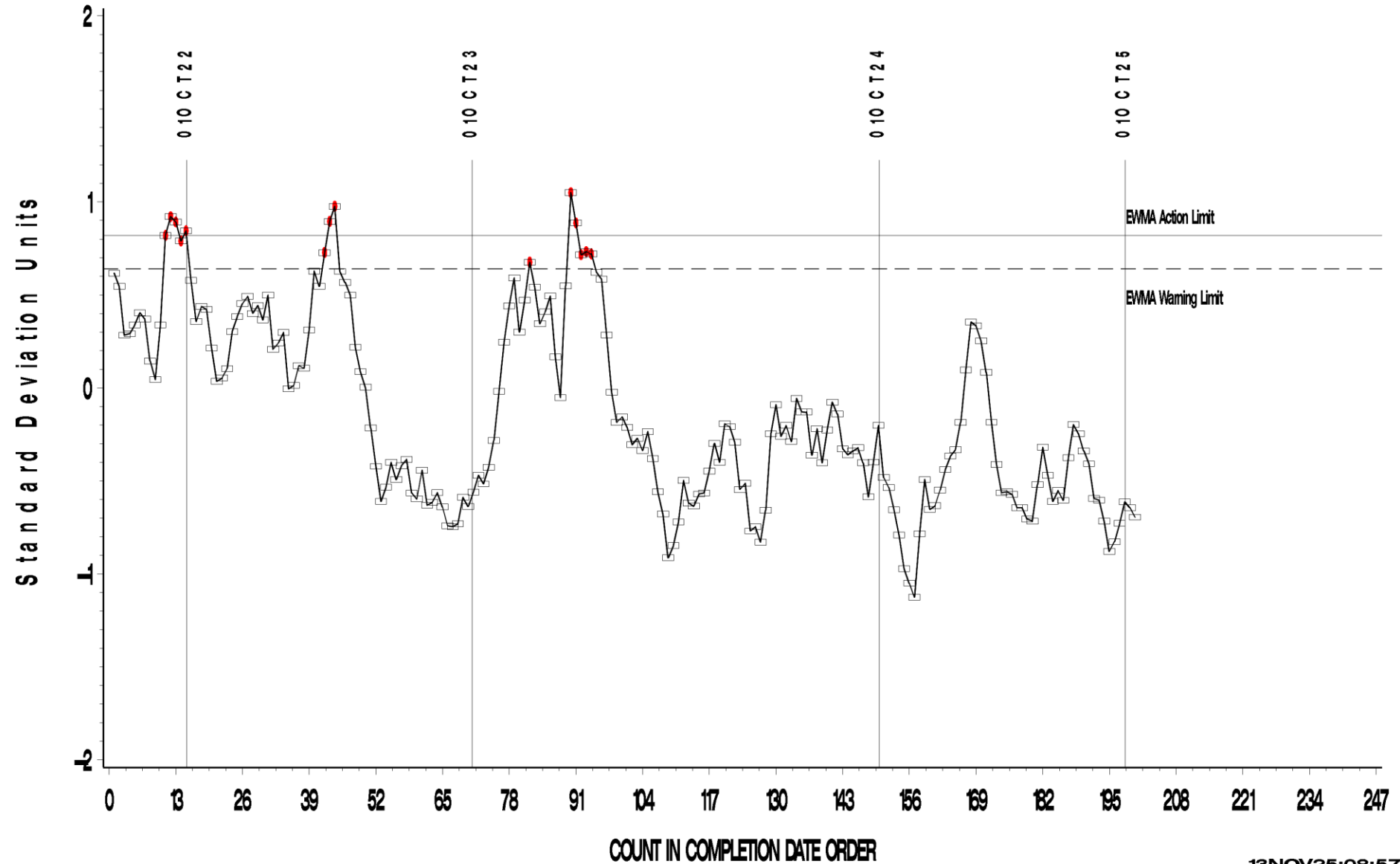
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LTMS Precision Analysis



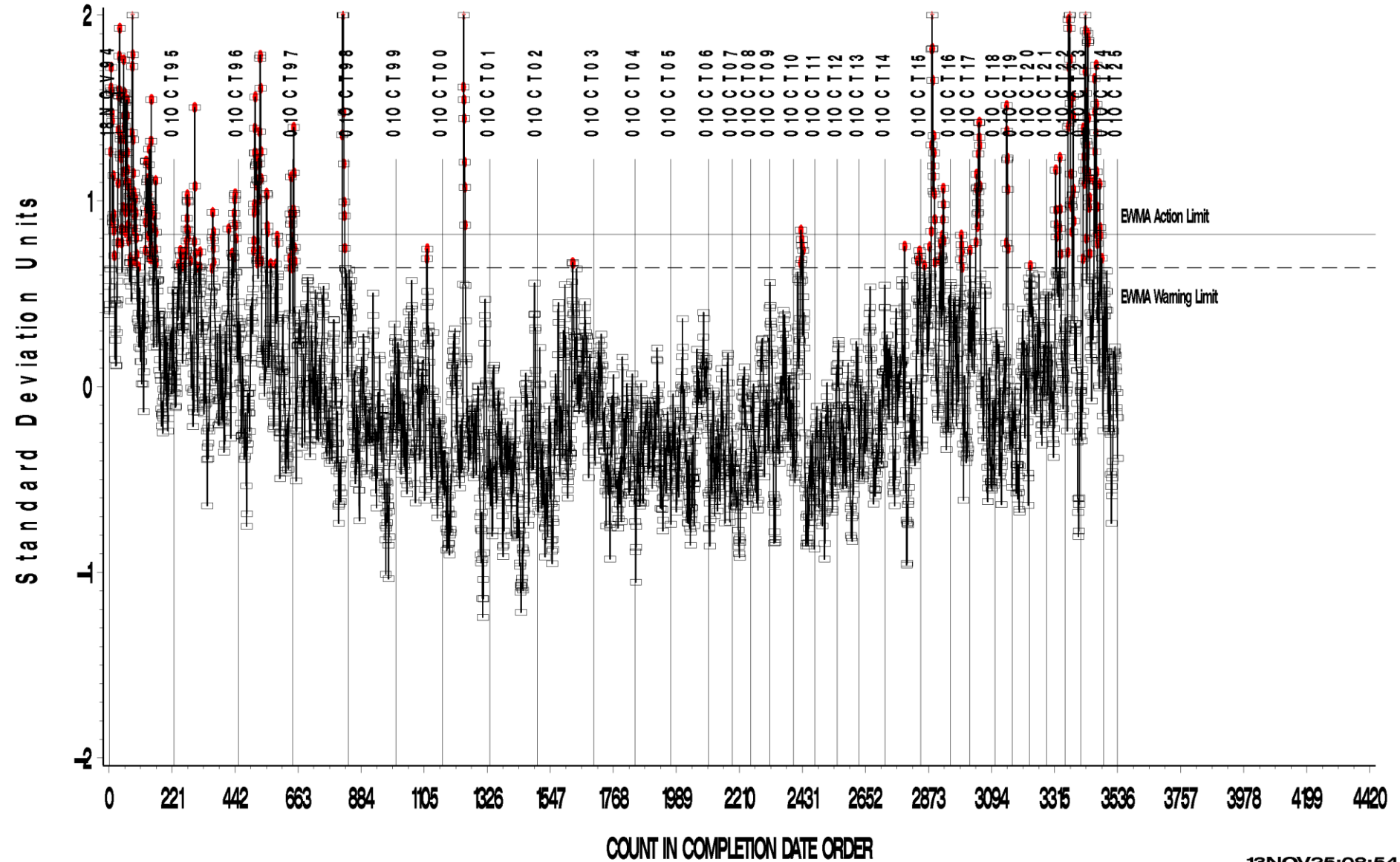
OSCT INDUSTRY OPERATIONALLY VALID DATA
Zoomed to 200 Most Recent Data Points
REF. PERCENT VOLUME CHANGE AVG.

LTMS Precision Analysis

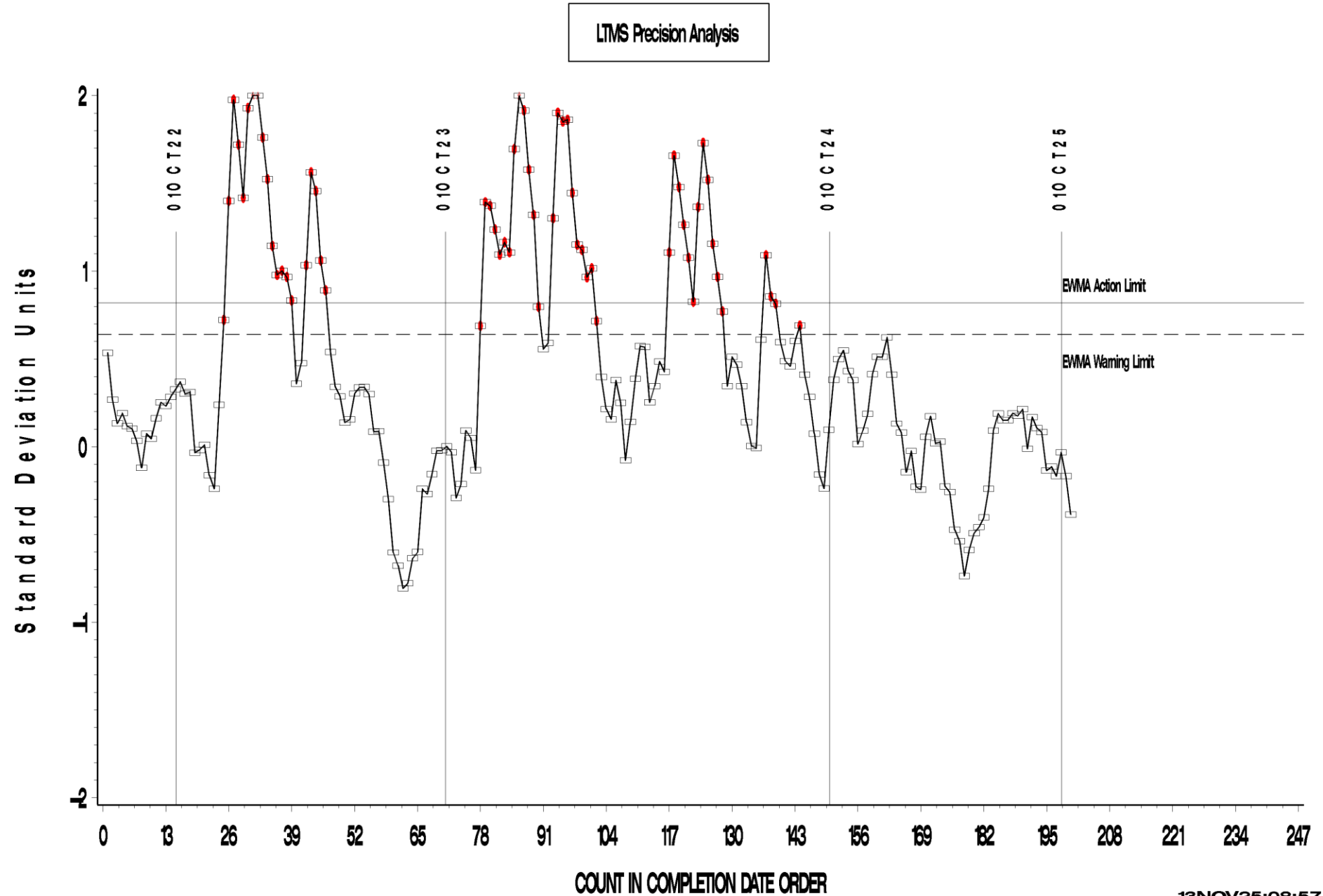


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LTMS Precision Analysis

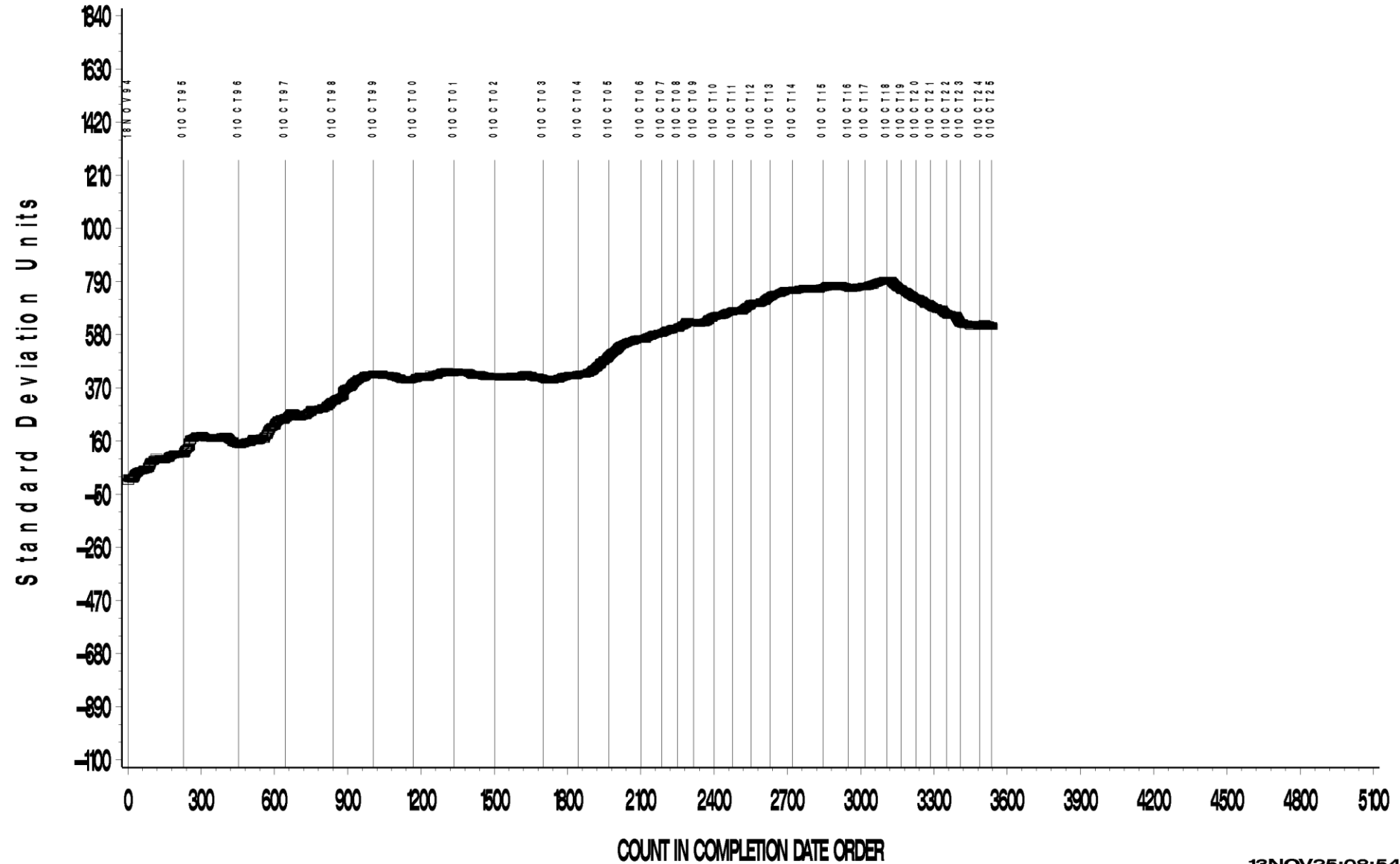


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Zoomed to 200 Most Recent Data Points
REF. SHORE A HARDNESS CHANGE AVG.



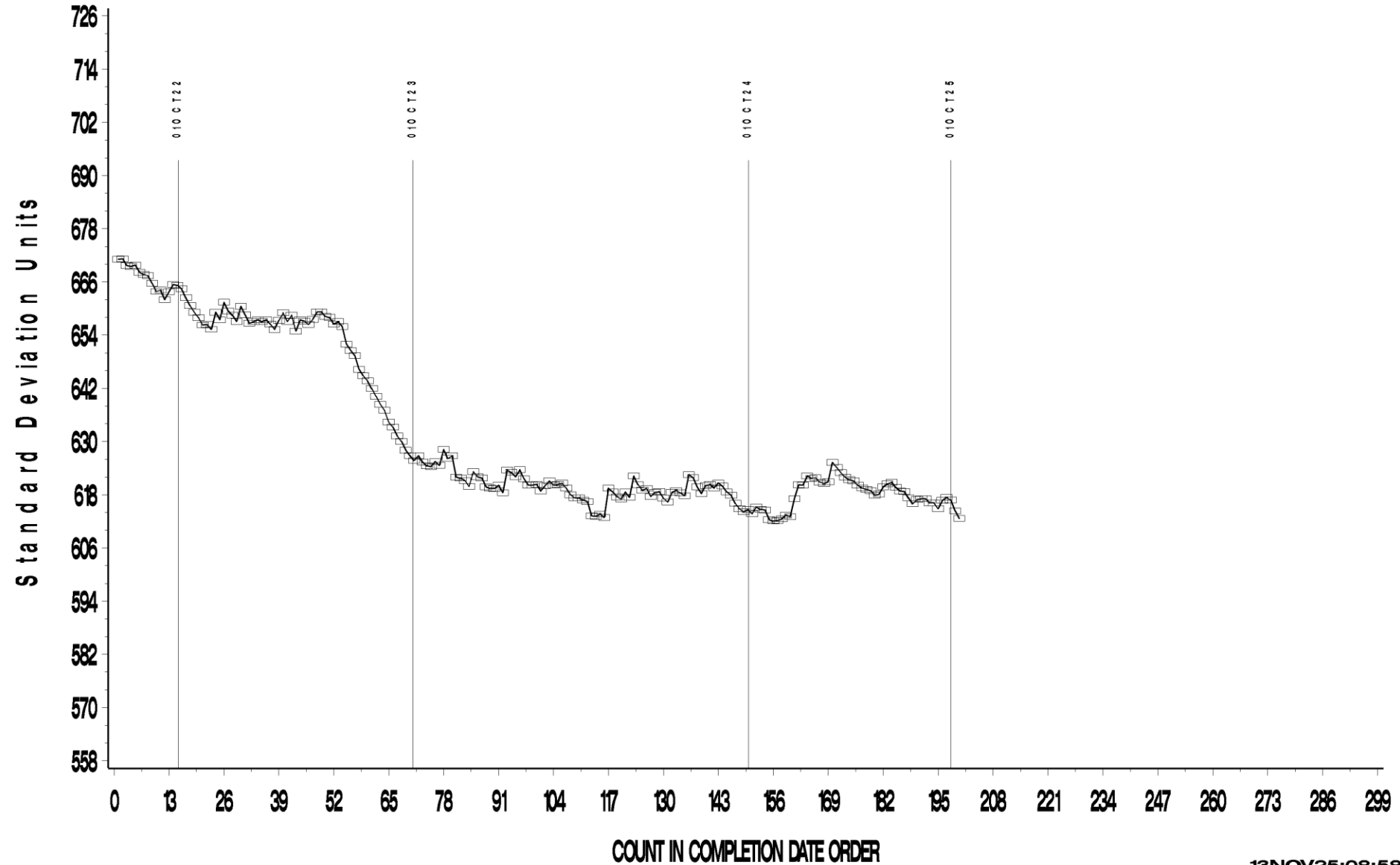
REF. ELONGATION CHANGE AVG.

CUSUM Severity Analysis



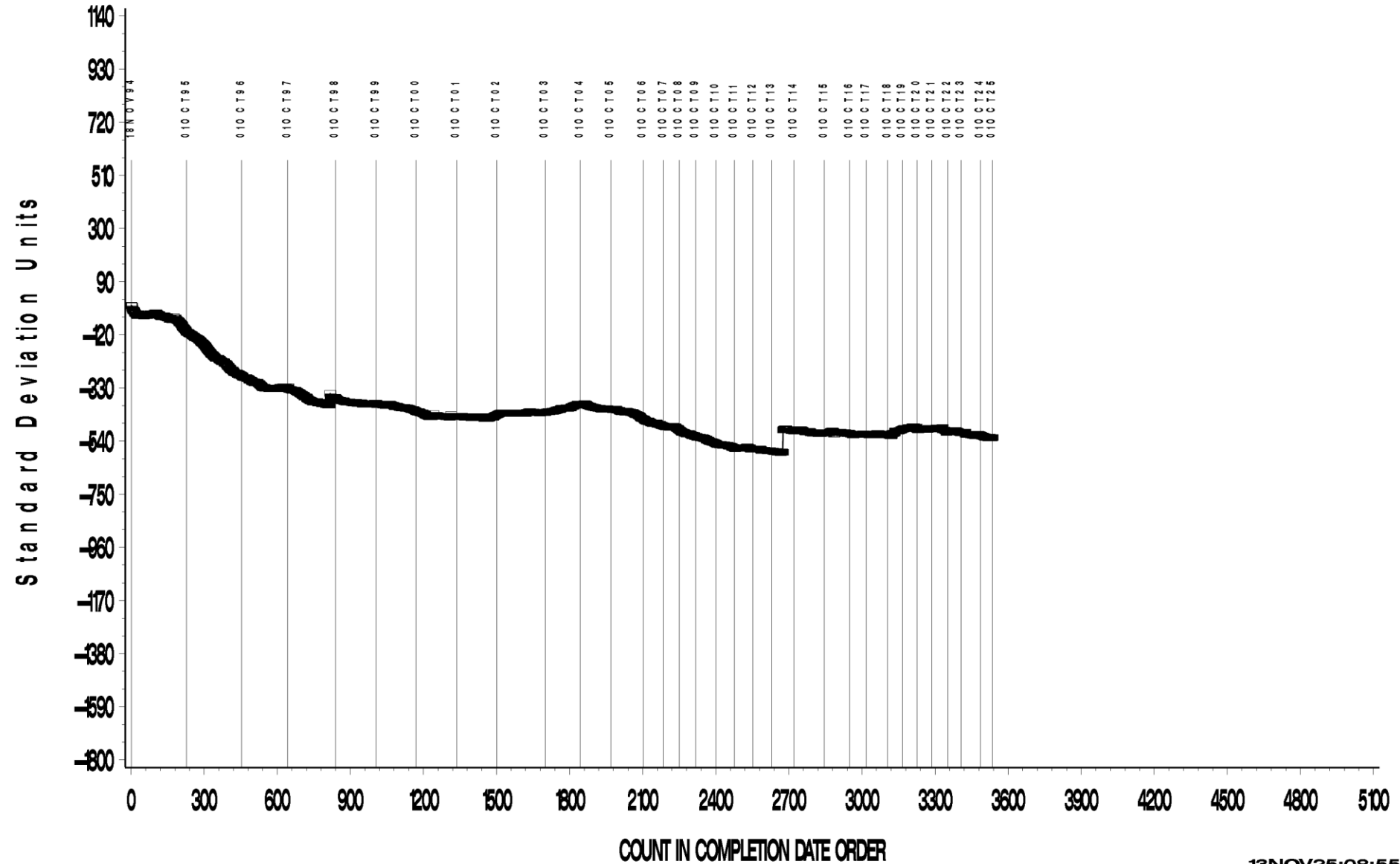
OSCT INDUSTRY OPERATIONALLY VALID DATA
Zoomed to 200 Most Recent Data Points
REF. ELONGATION CHANGE AVG.

CUSUM Severity Analysis



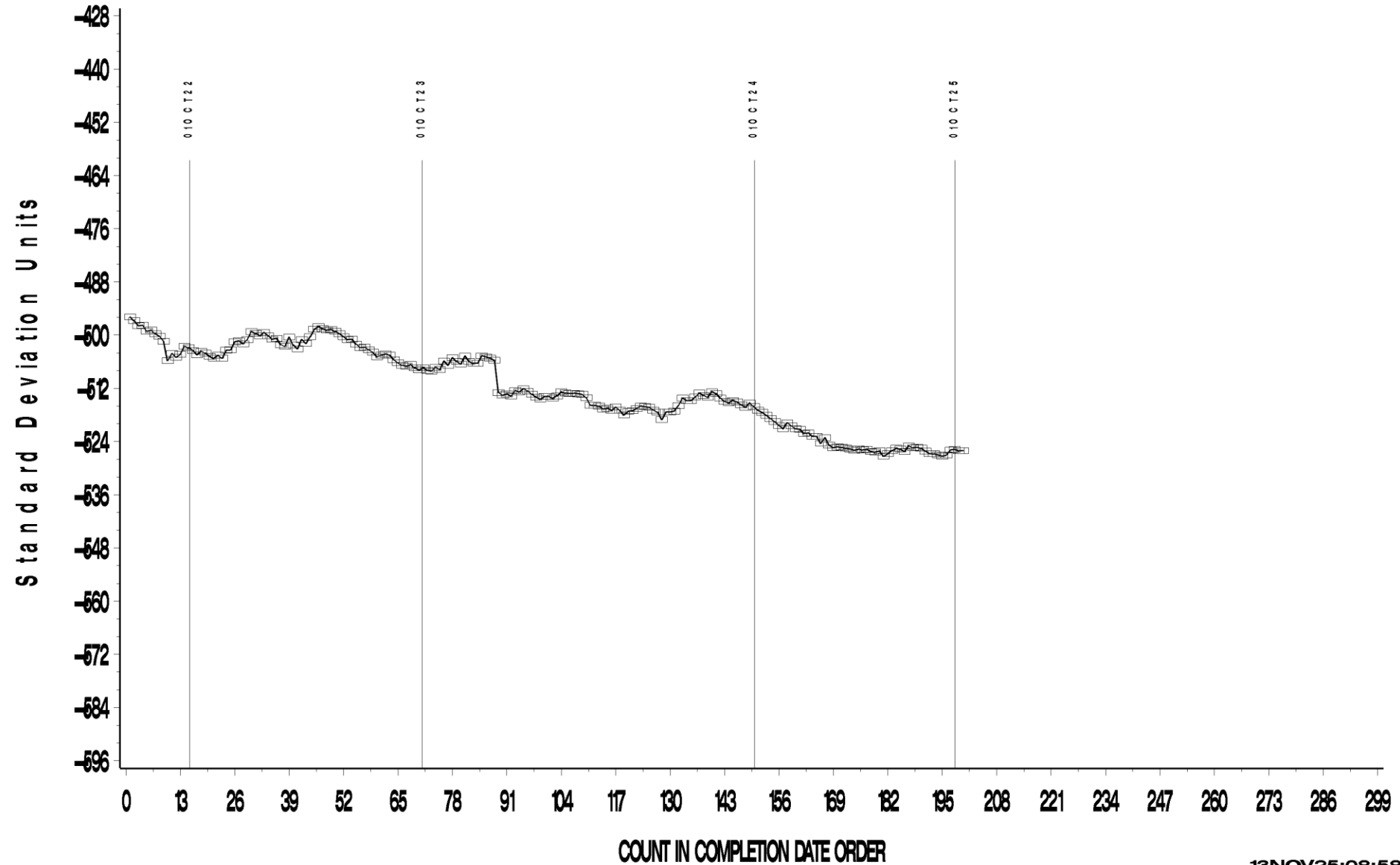
REF. PERCENT VOLUME CHANGE AVG.

CUSUM Severity Analysis



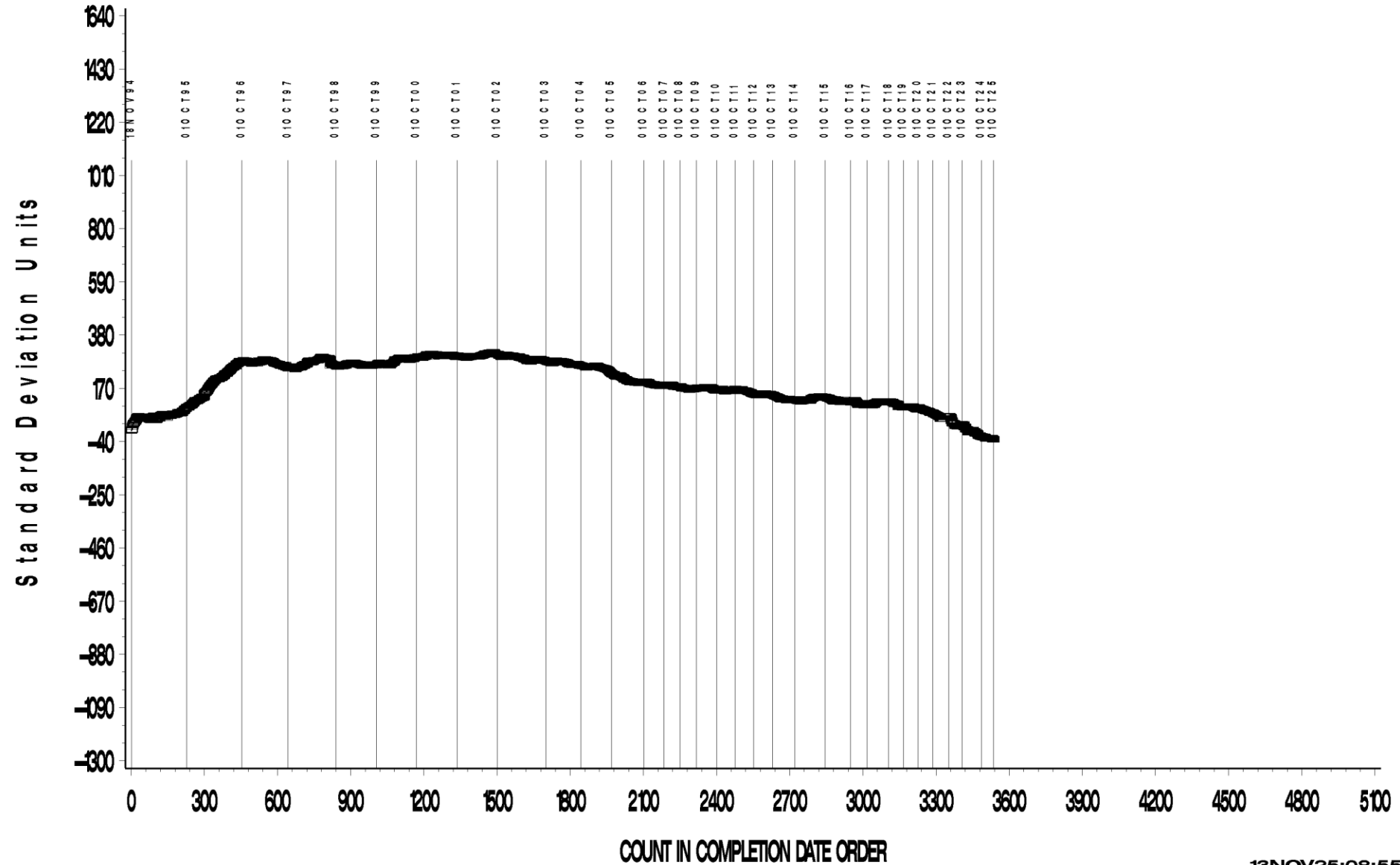
OSCT INDUSTRY OPERATIONALLY VALID DATA
Zoomed to 200 Most Recent Data Points
REF. PERCENT VOLUME CHANGE AVG.

CUSUM Severity Analysis



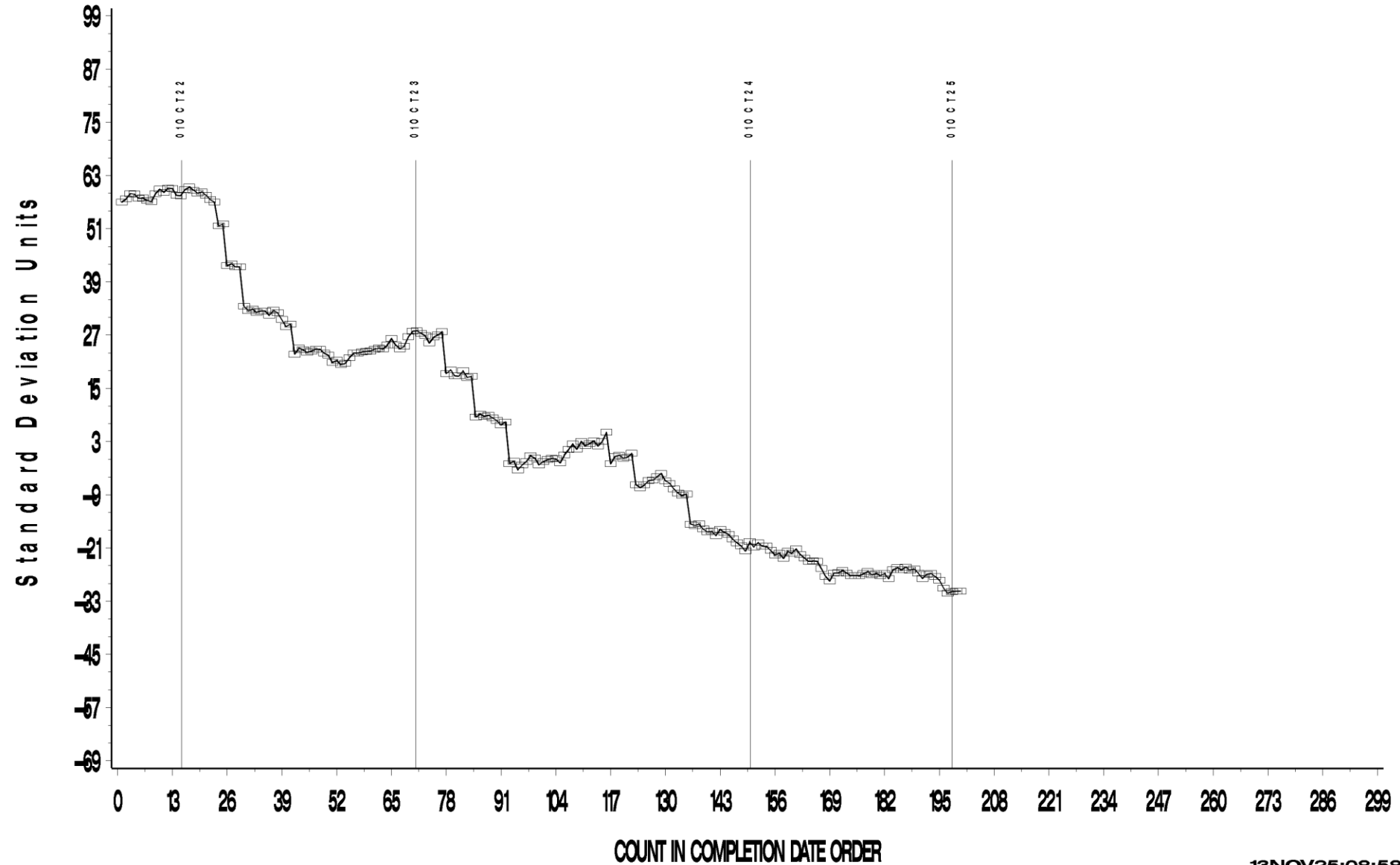
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CUSUM Severity Analysis

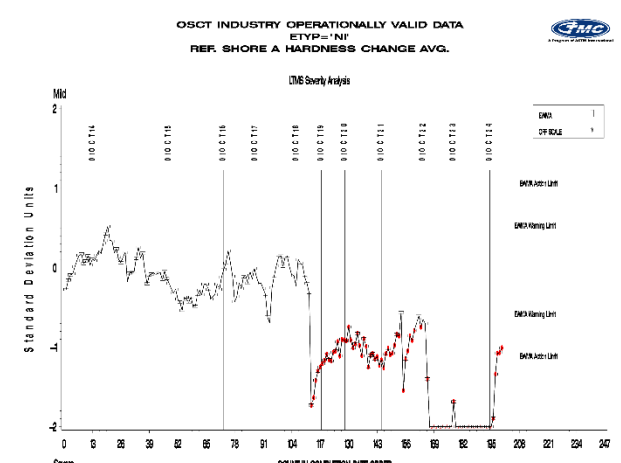
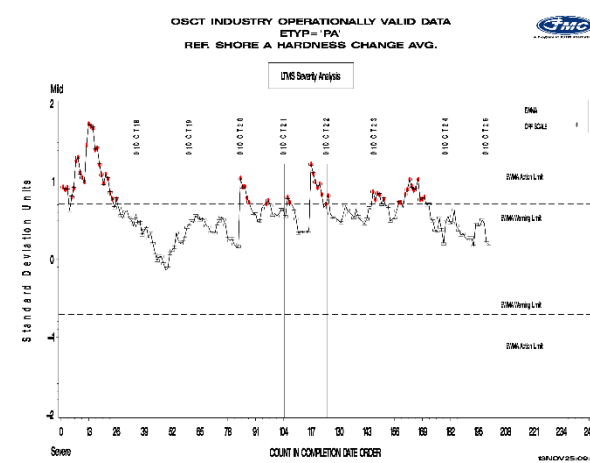
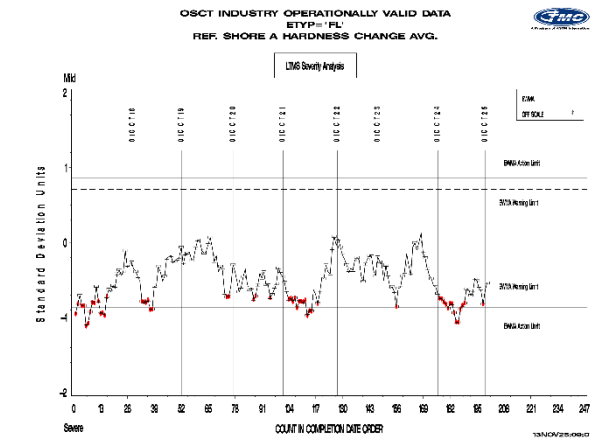
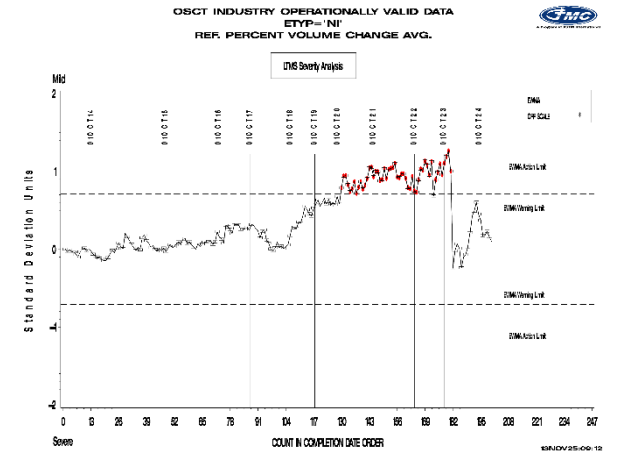
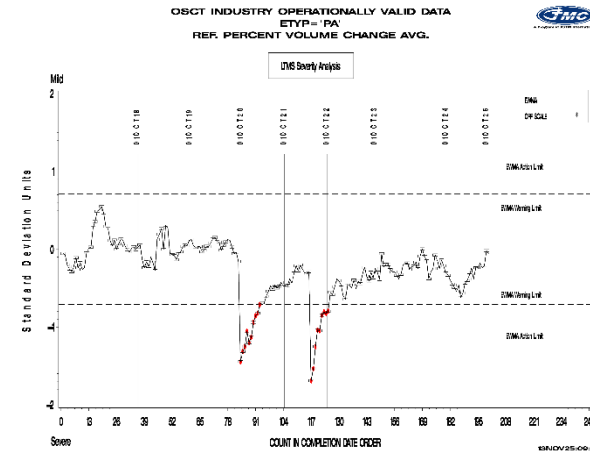
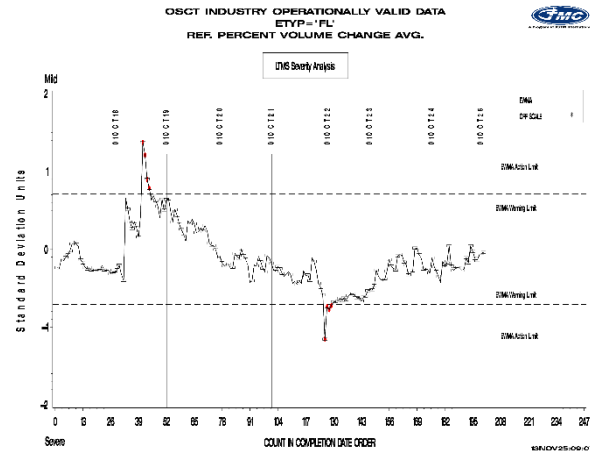
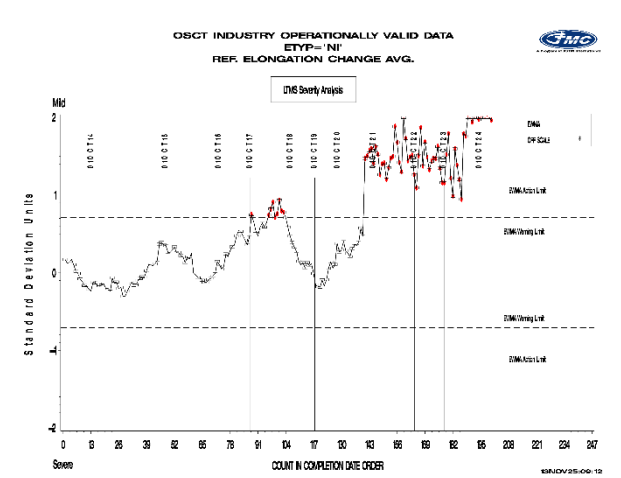
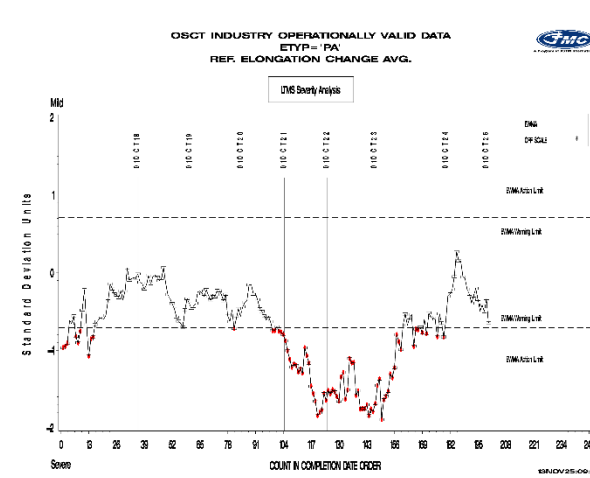
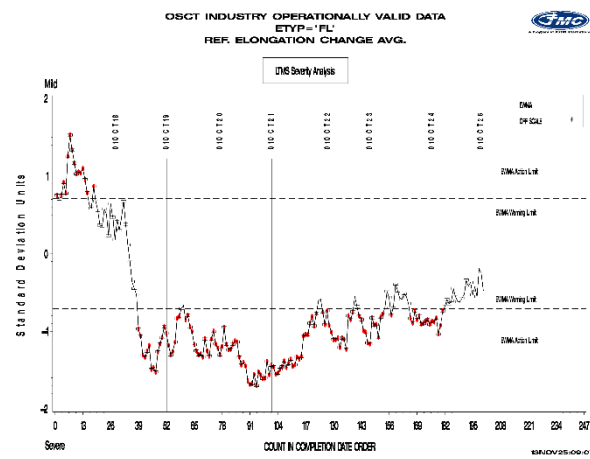


OSCT INDUSTRY OPERATIONALLY VALID DATA
Zoomed to 200 Most Recent Data Points
REF. SHORE A HARDNESS CHANGE AVG.

CUSUM Severity Analysis

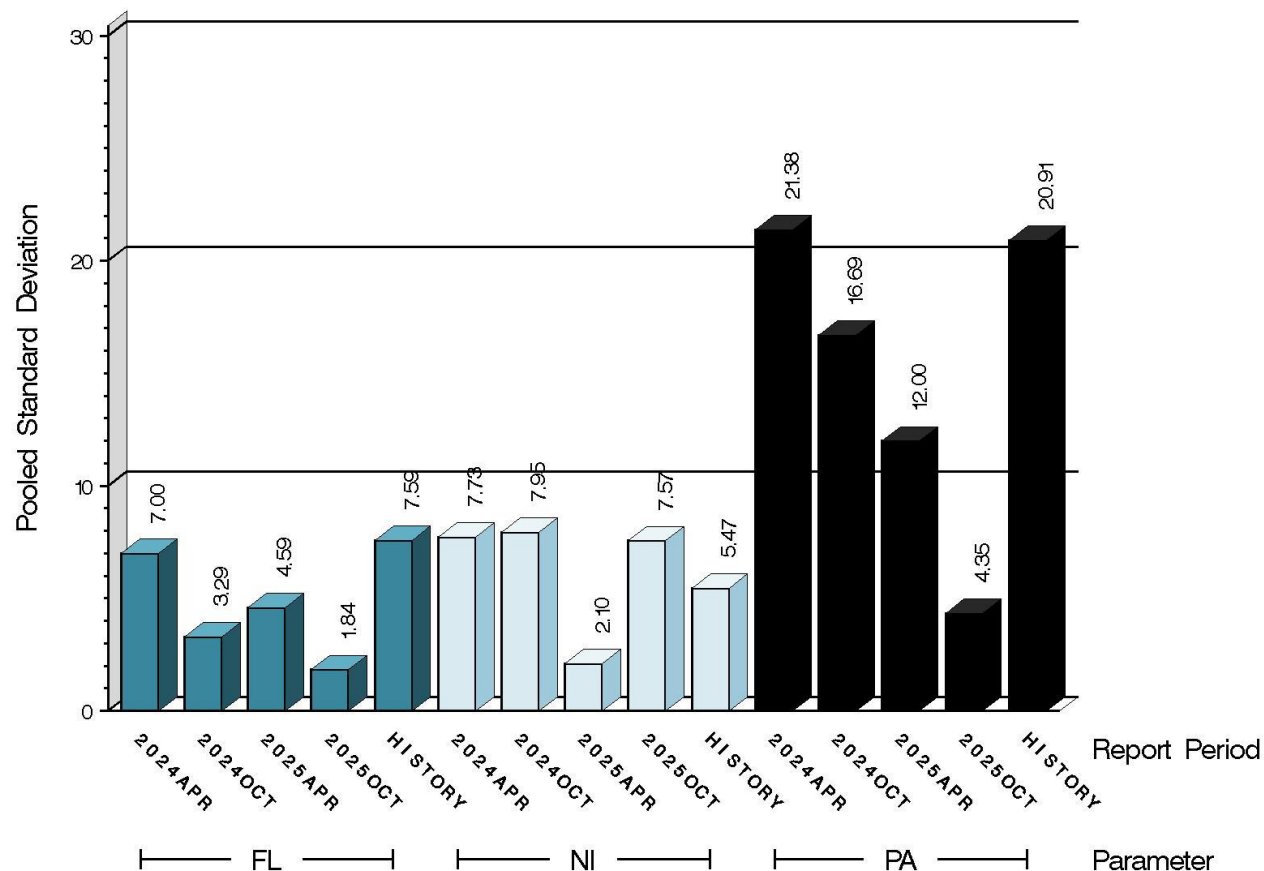


By-Elastomer Plots



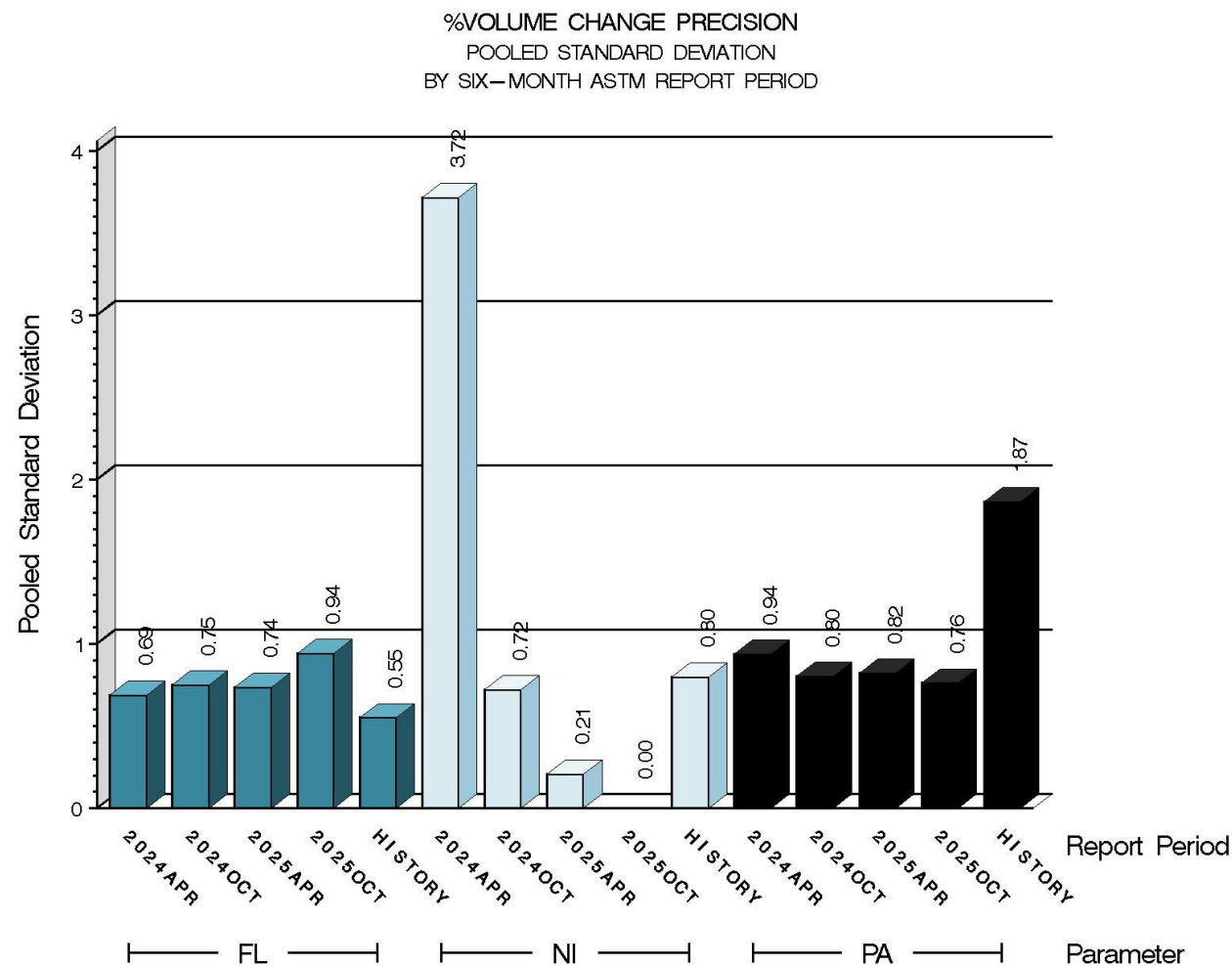
OSCT Precision Estimates

%ELONGATION PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



6:45:32 13NOV2025

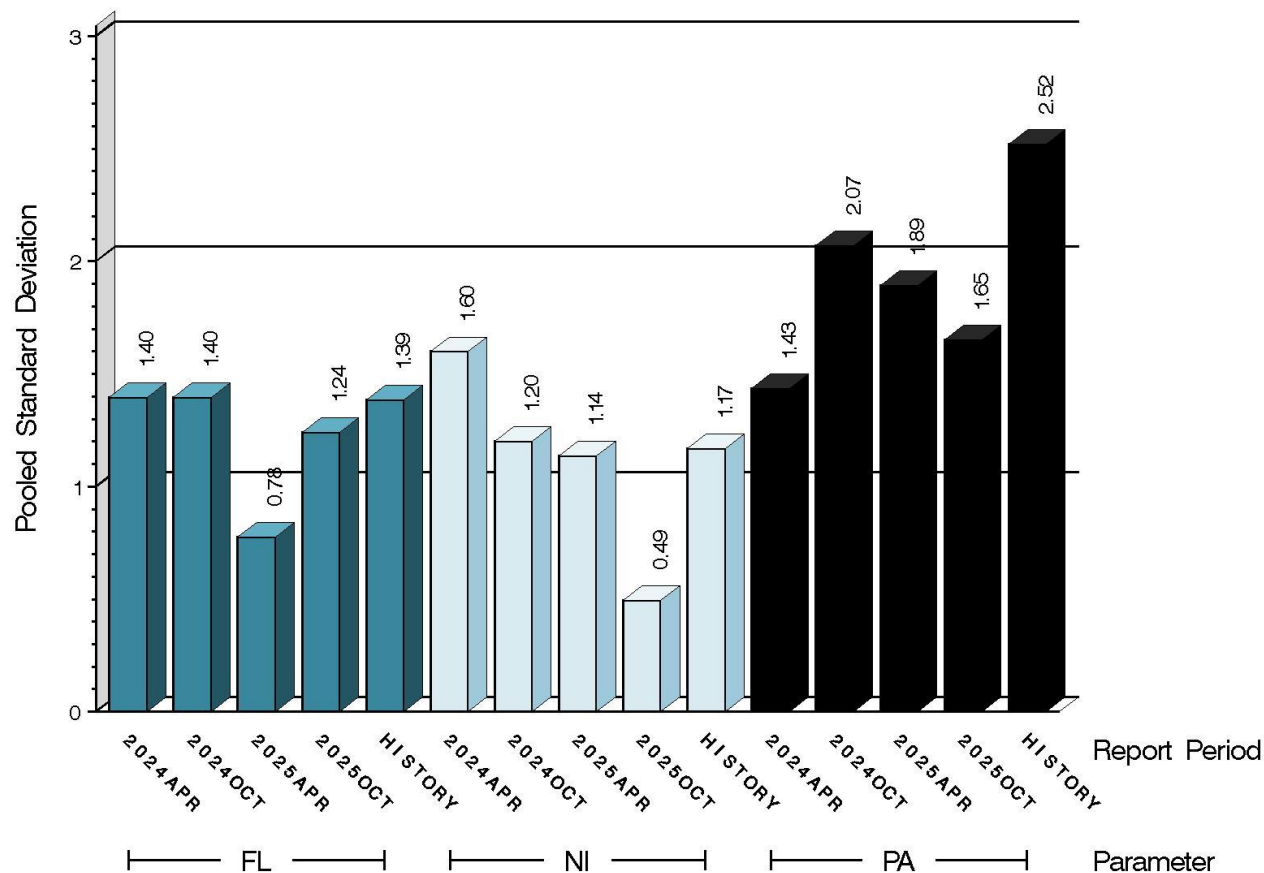
OSCT Precision Estimates



6:45:32 13NOV2025

OSCT Precision Estimates

S.A. HARDNESS PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



6:45:32 13NOV2025

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



L37 RC

➡➡ October 2025

L37RC Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	16
Unacceptable Calibration Test	OC	10
Total		26

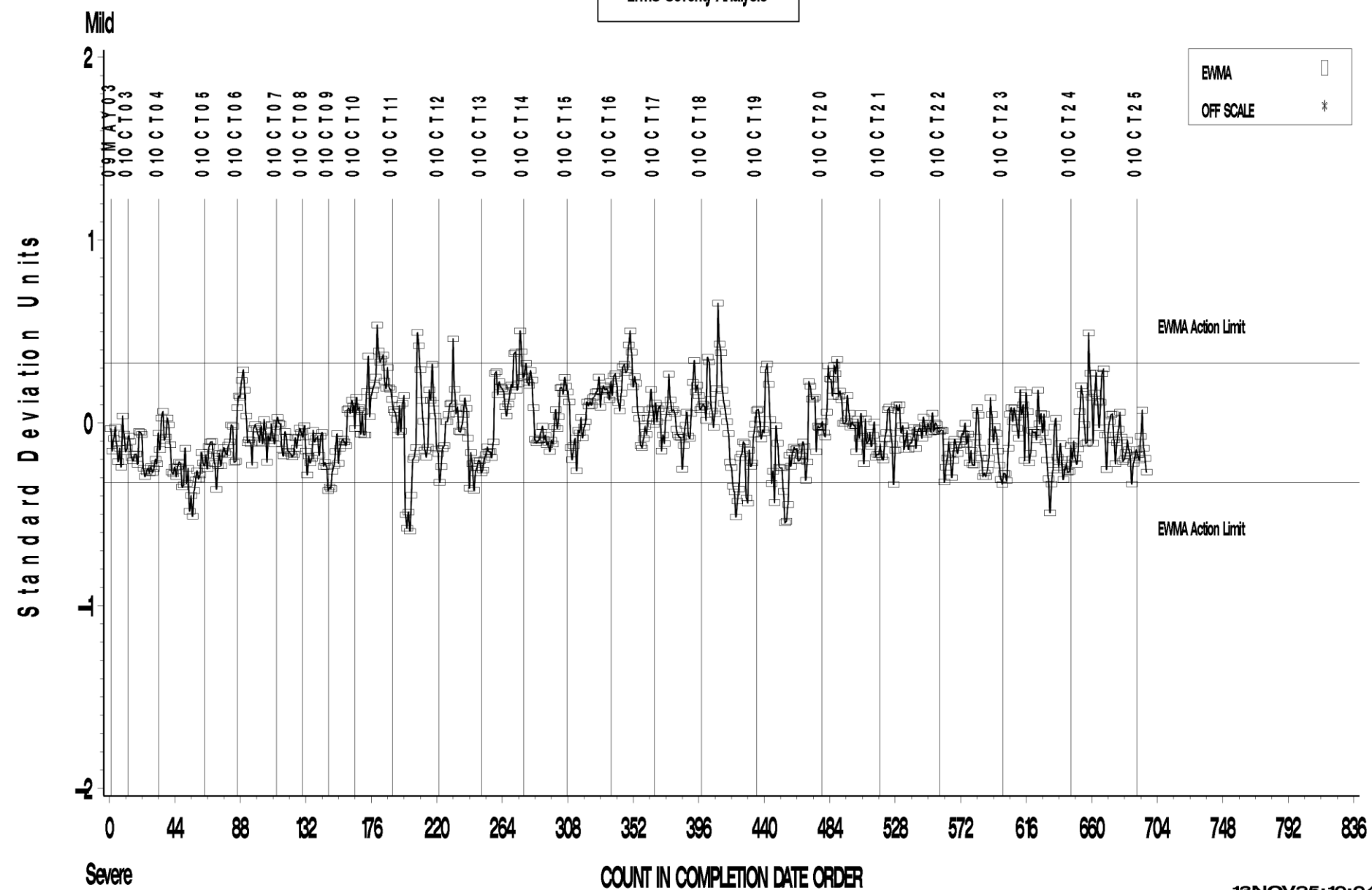
L37RC Activity

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild)	OC	0
Unacceptable Calibration Test (Severe)	OC	9
Unacceptable Calibration Test (Multiple)	OC	1
Unacceptable Calibration Test (Precision)	OC	0
Total		10

L37RC Test Severity

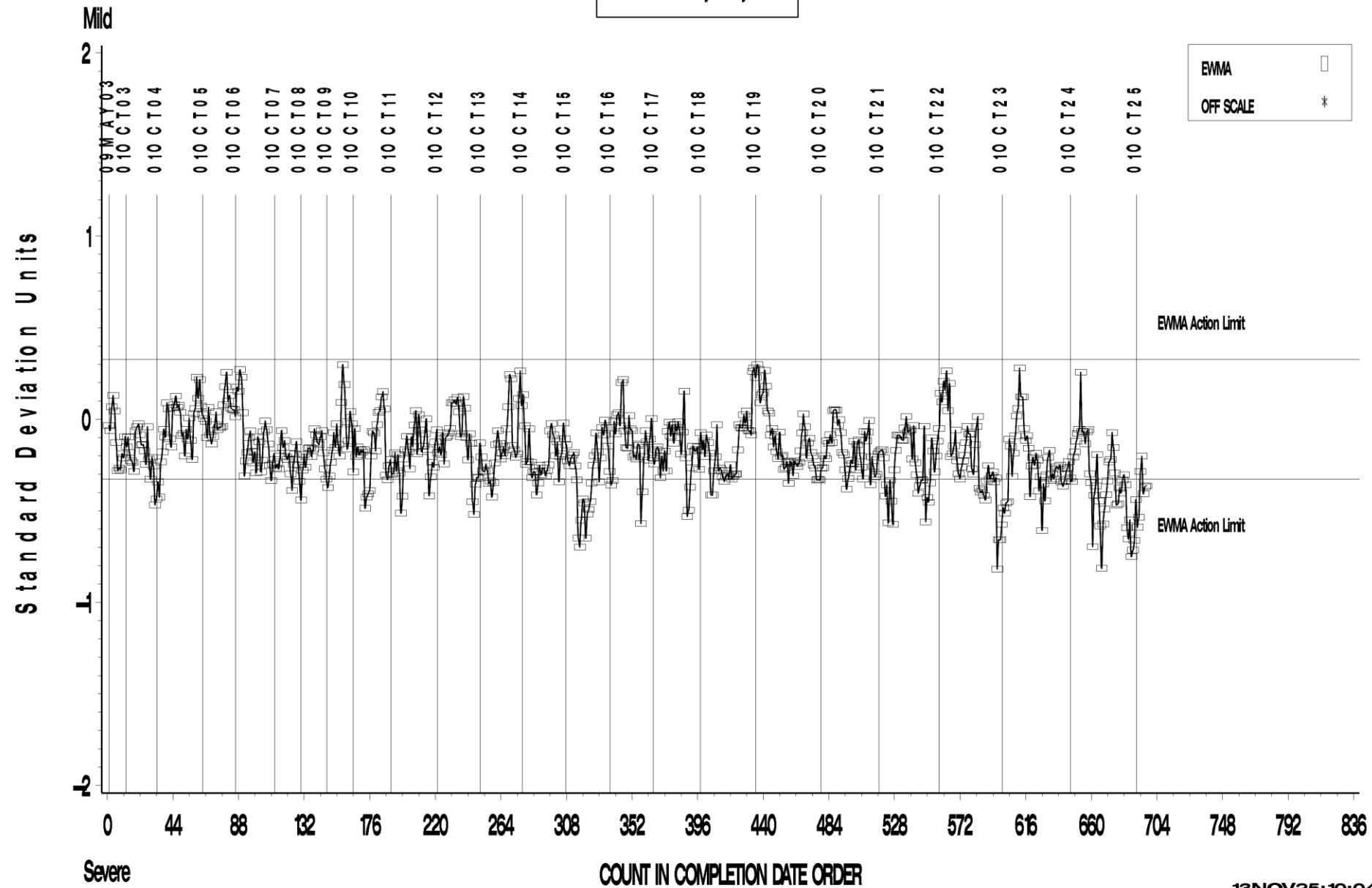
- Severity:
 - WEAR, RIPP, RIDG exceeded the action limit in the mild direction during this reporting period and have since returned within limits.
- Precision:
 - All parameters remained within the action limit this period.

LTMS Severity Analysis



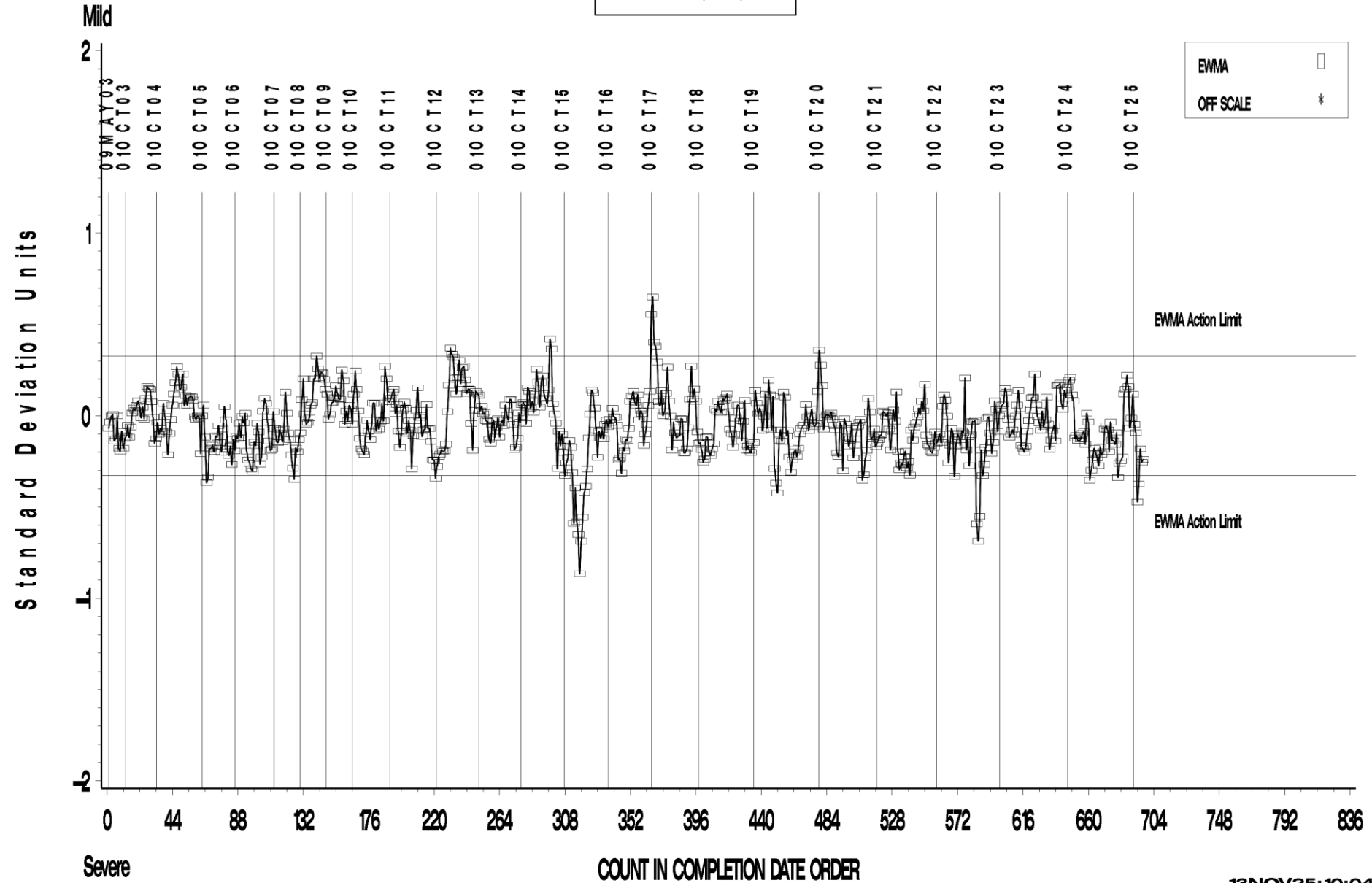
RIDGING

LTMS Severity Analysis



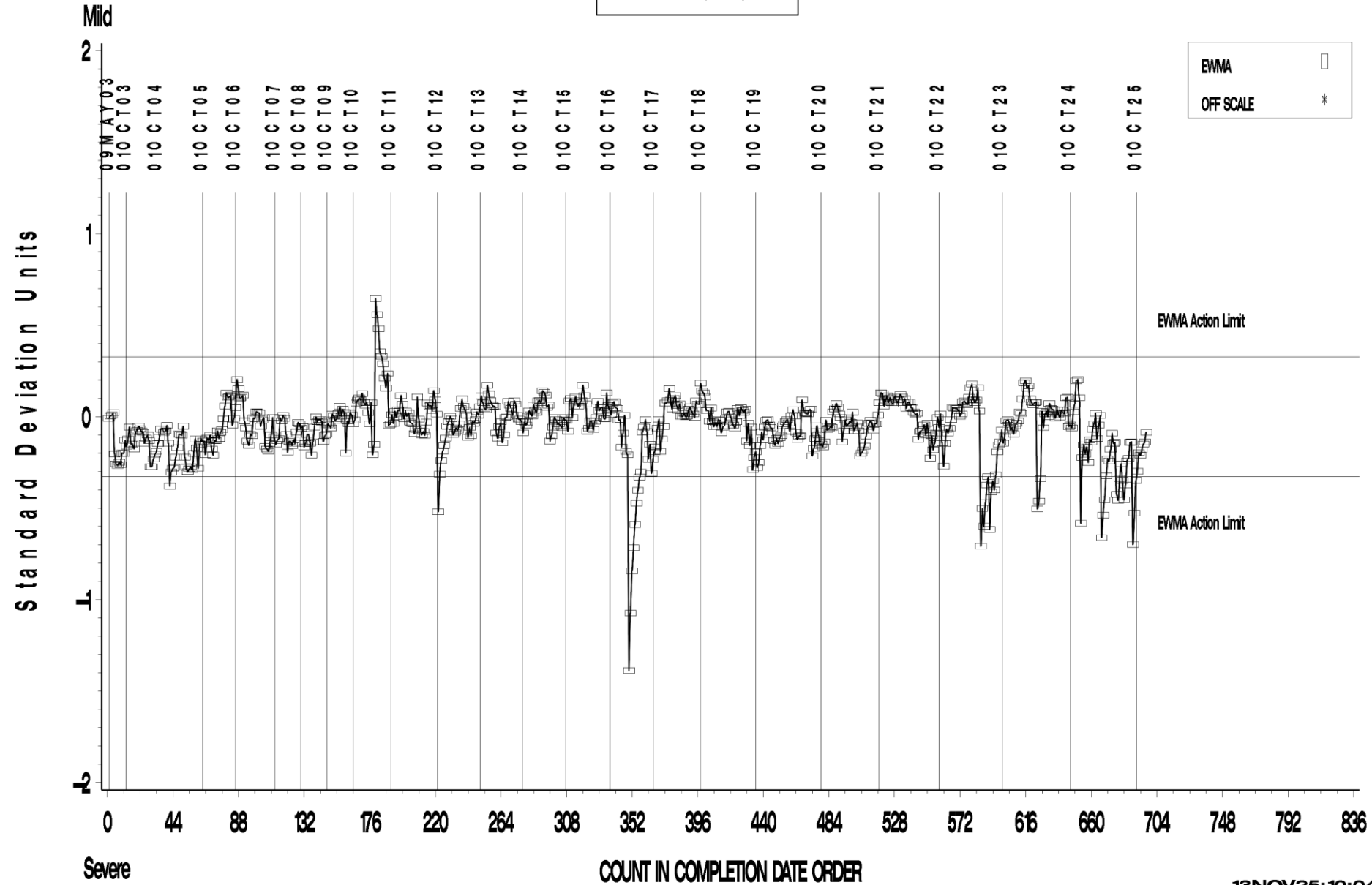
RIPPLING

LTMS Severity Analysis



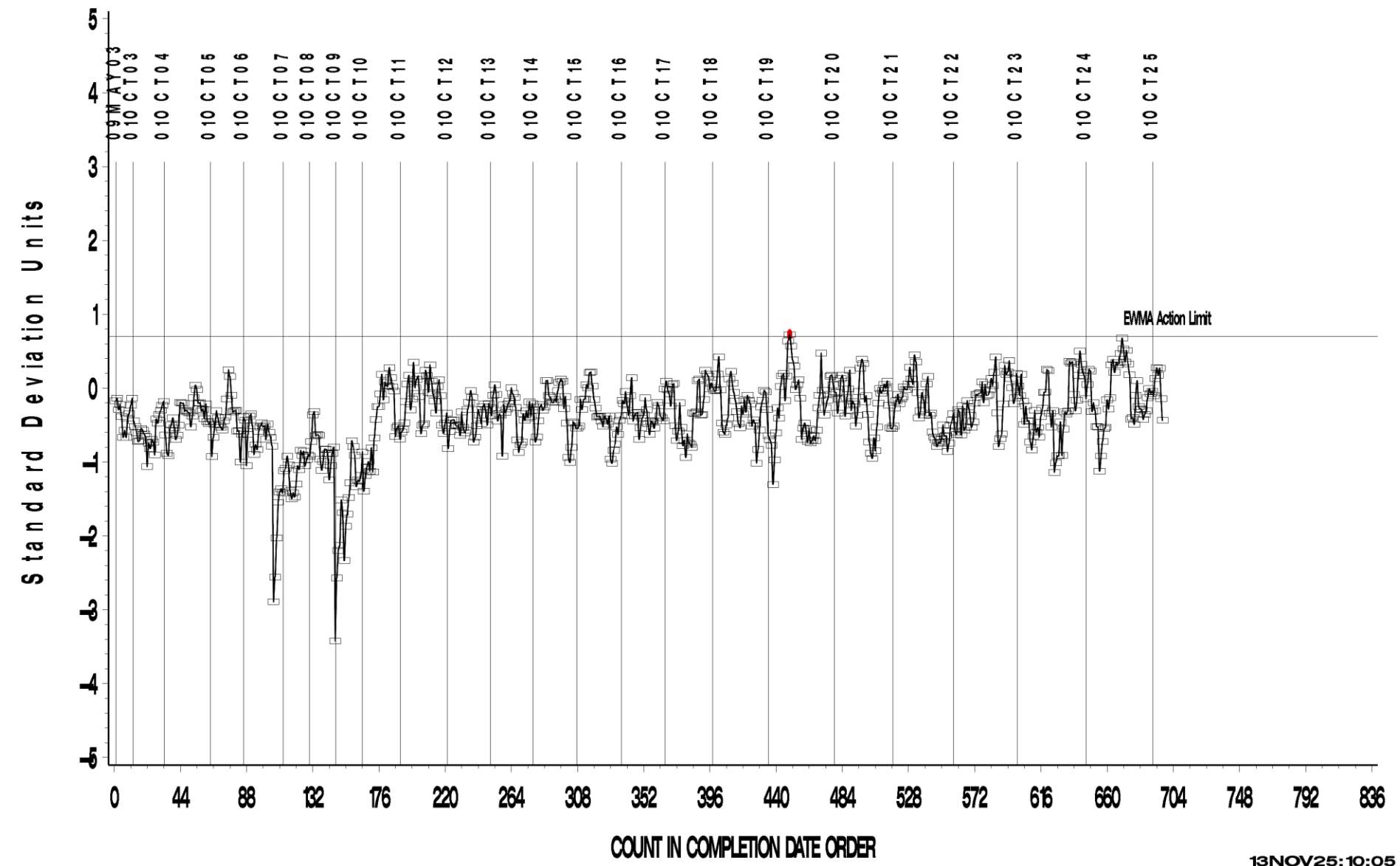
SPITTING

LTMS Severity Analysis



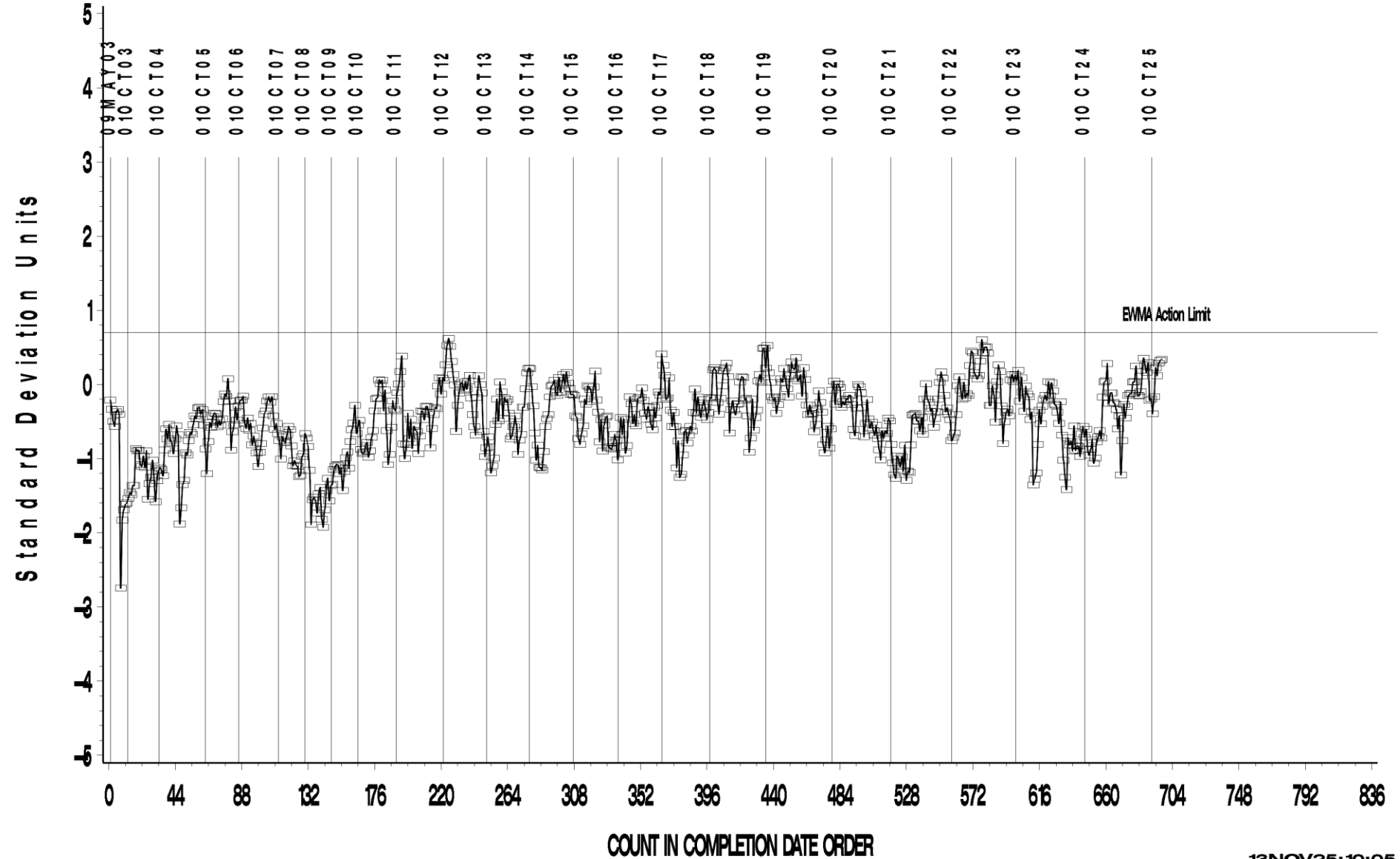
WEAR

LTMS Precision Analysis



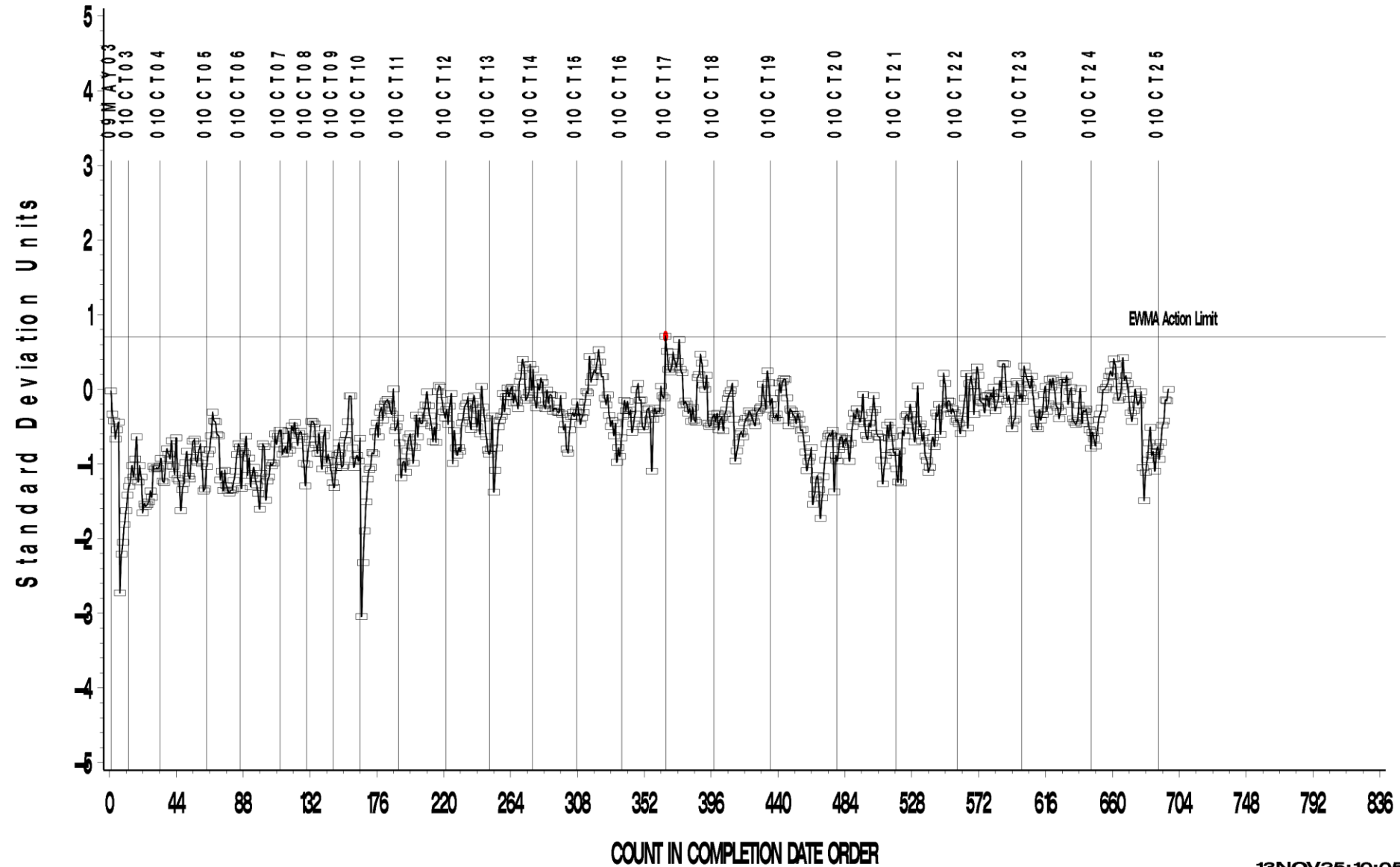
RIPPLING

LTMS Precision Analysis



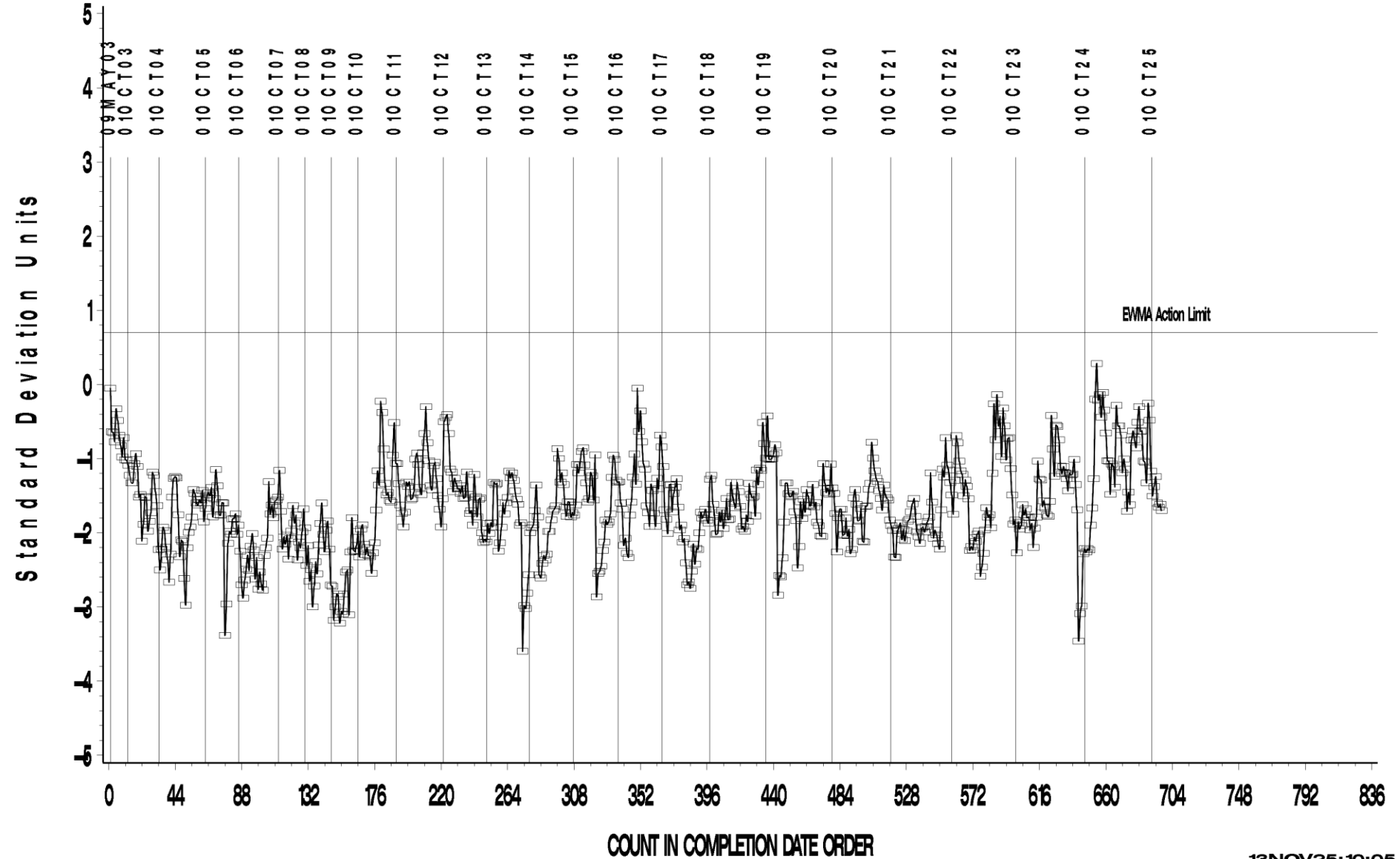
RIDGING

LTMS Precision Analysis



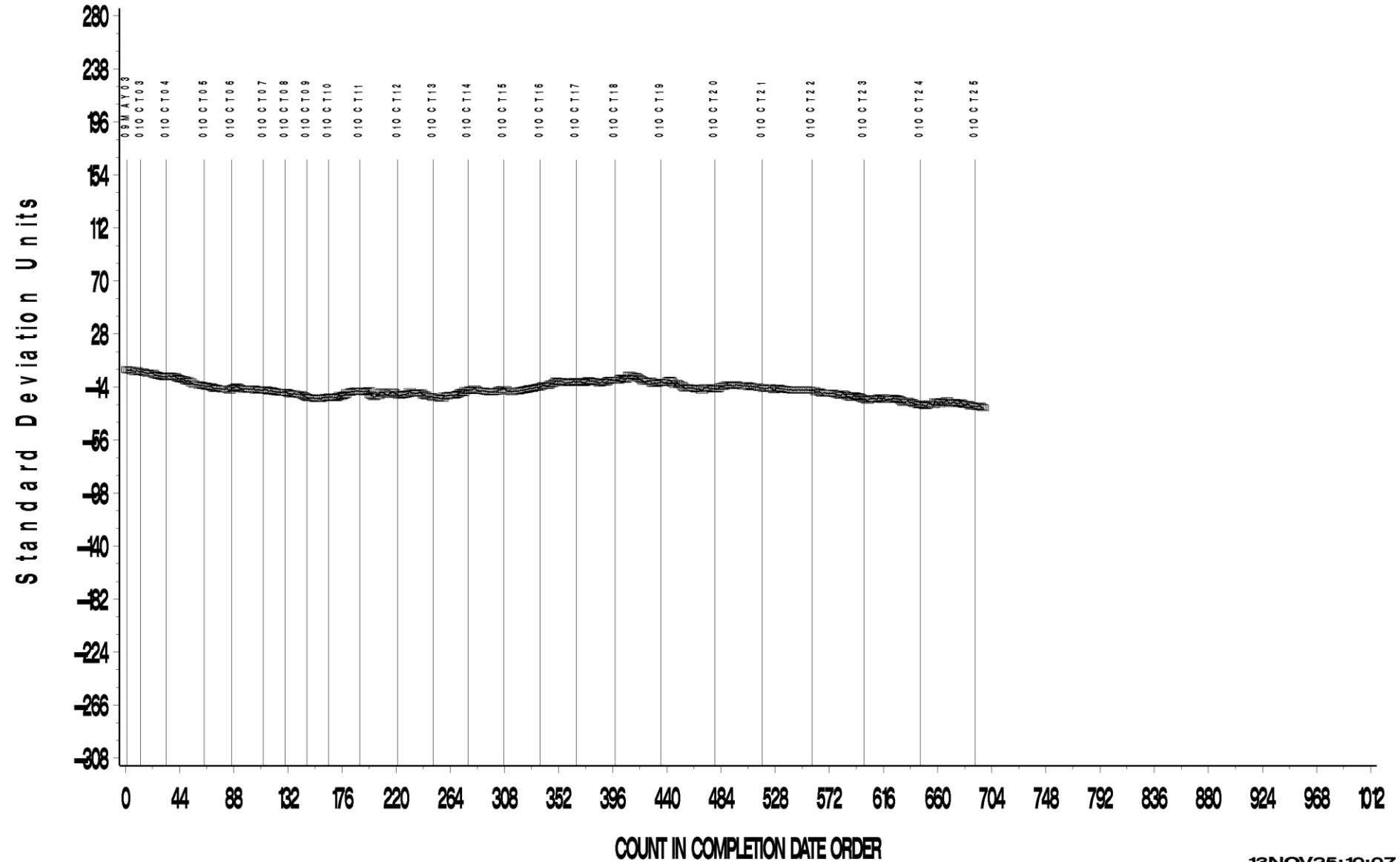
SPITTING

LTMS Precision Analysis



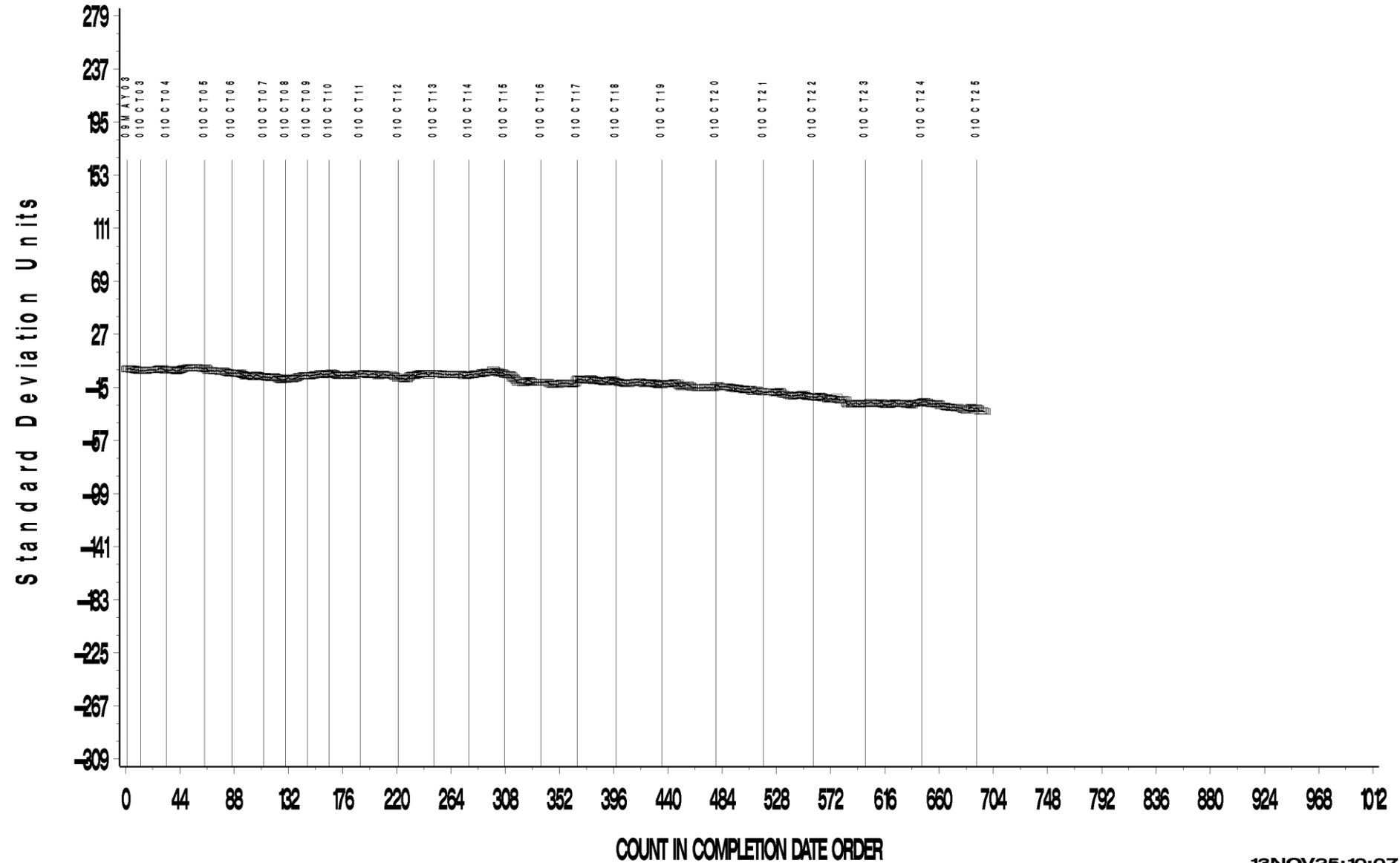
WEAR

CUSUM Severity Analysis



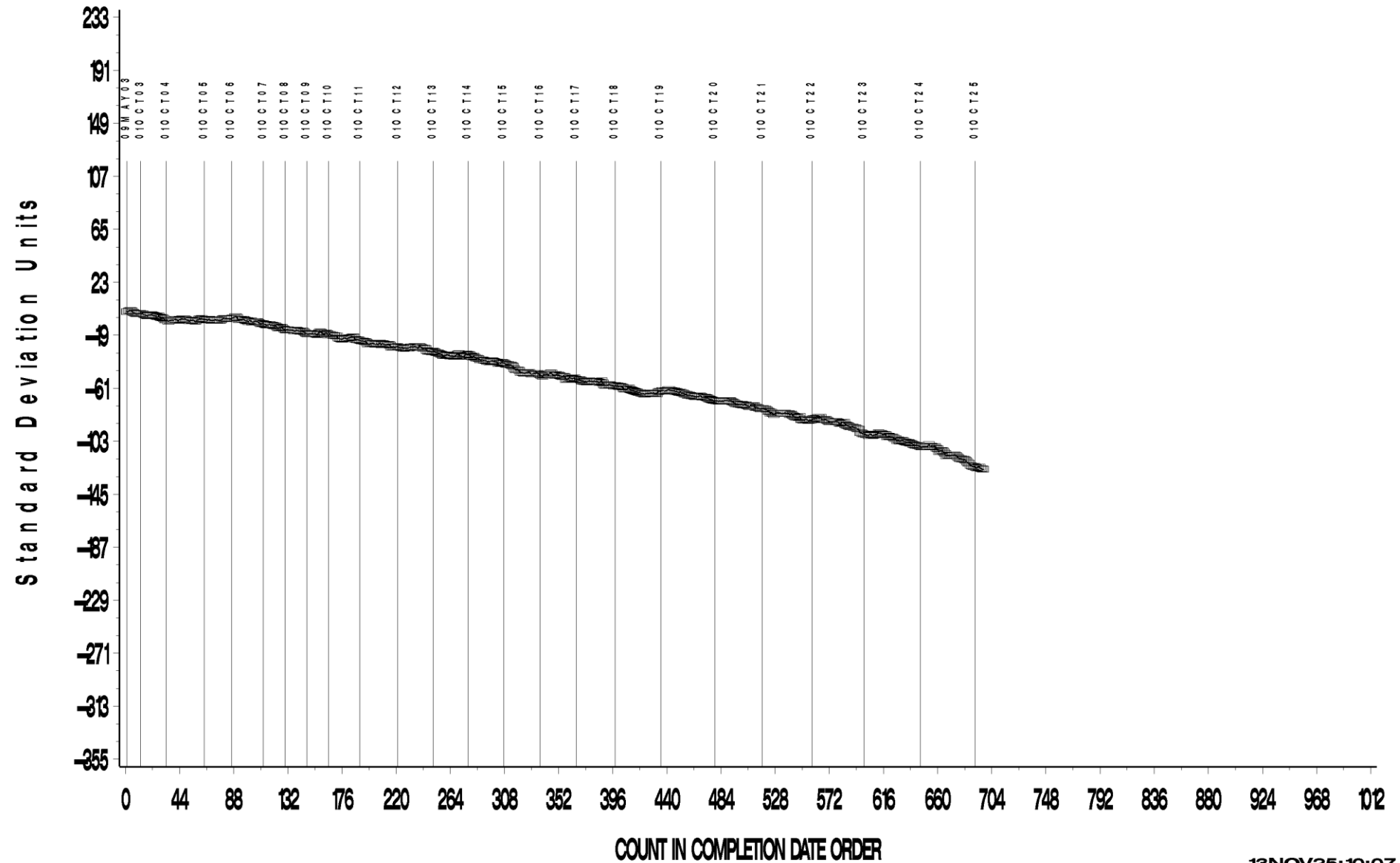
RIPPLING

CUSUM Severity Analysis



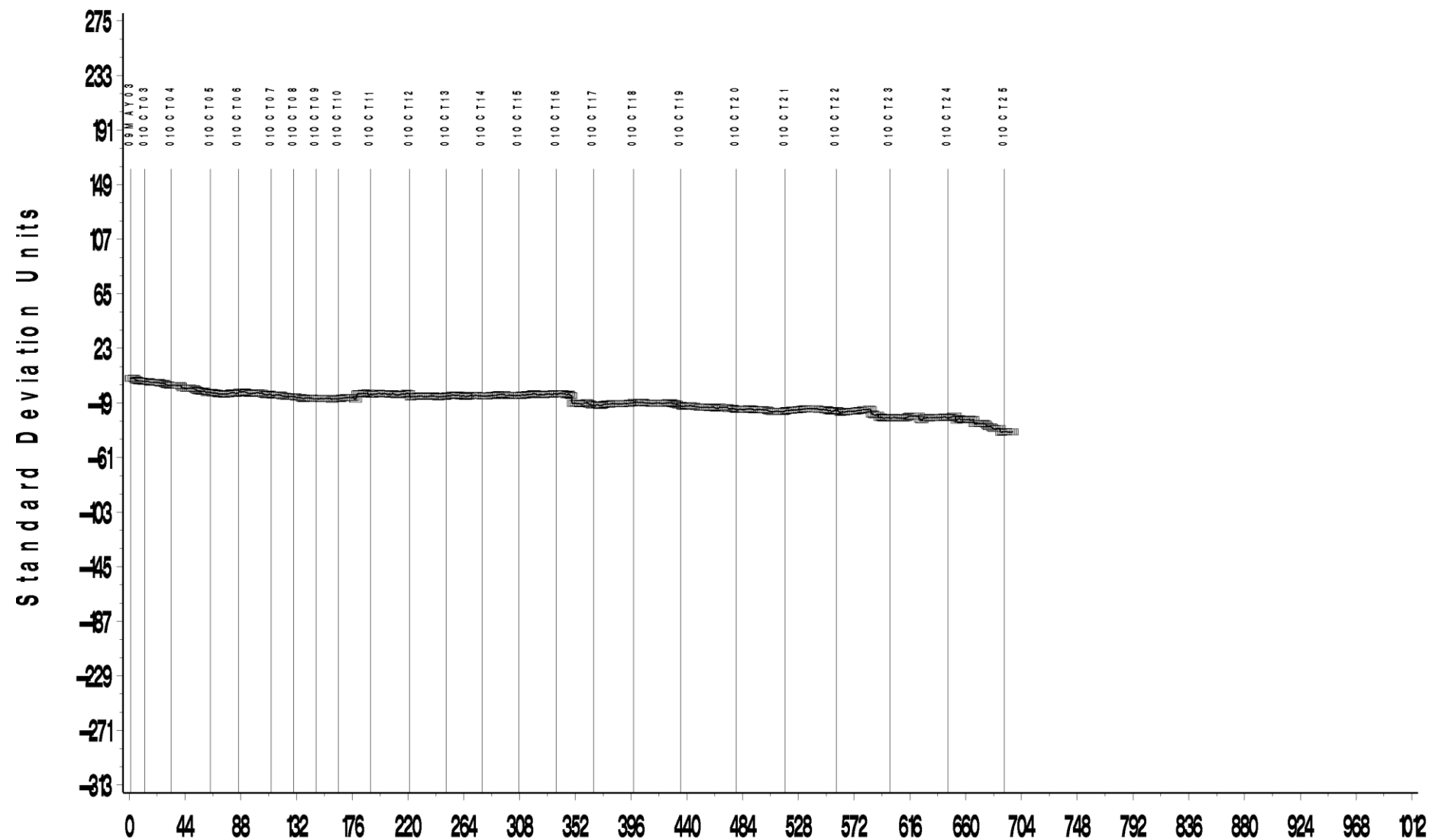
RIDGING

CUSUM Severity Analysis



SPITTING

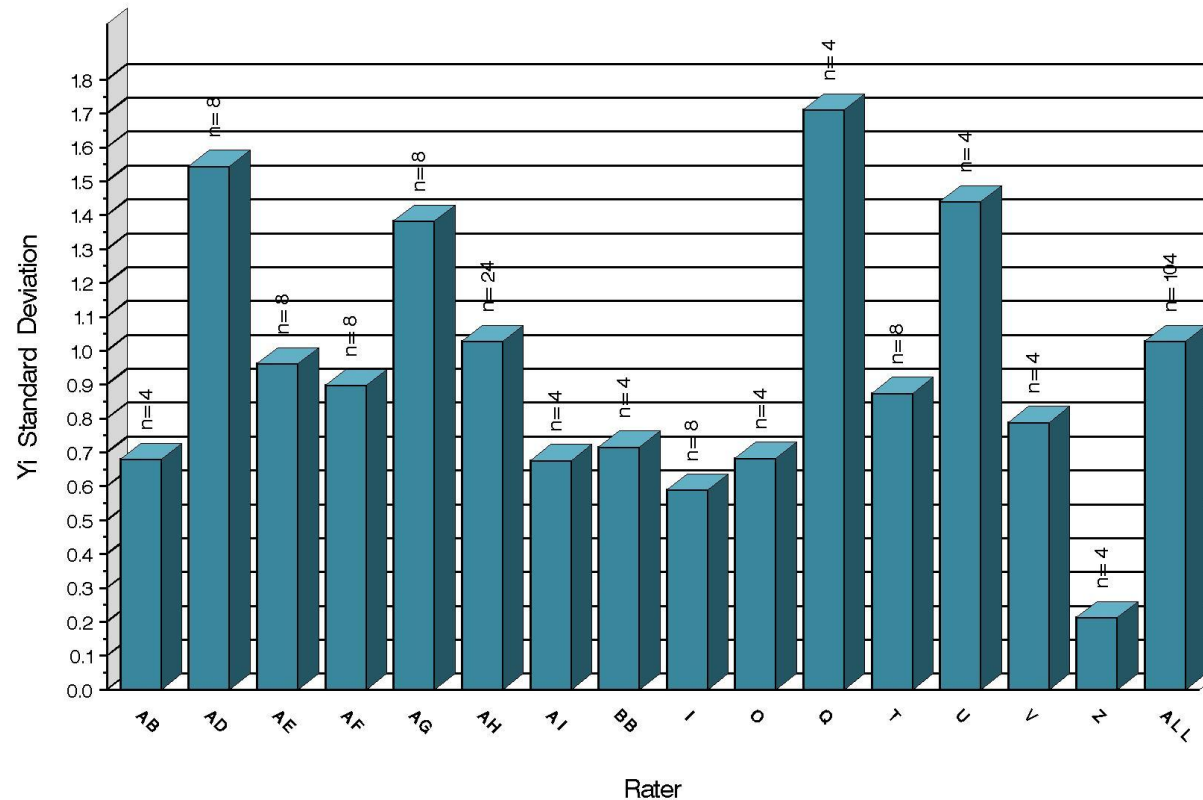
CUSUM Severity Analysis



COUNT IN COMPLETION DATE ORDER

L37RC Precision Estimates

WEAR
Precision as Measured by Y1 STD



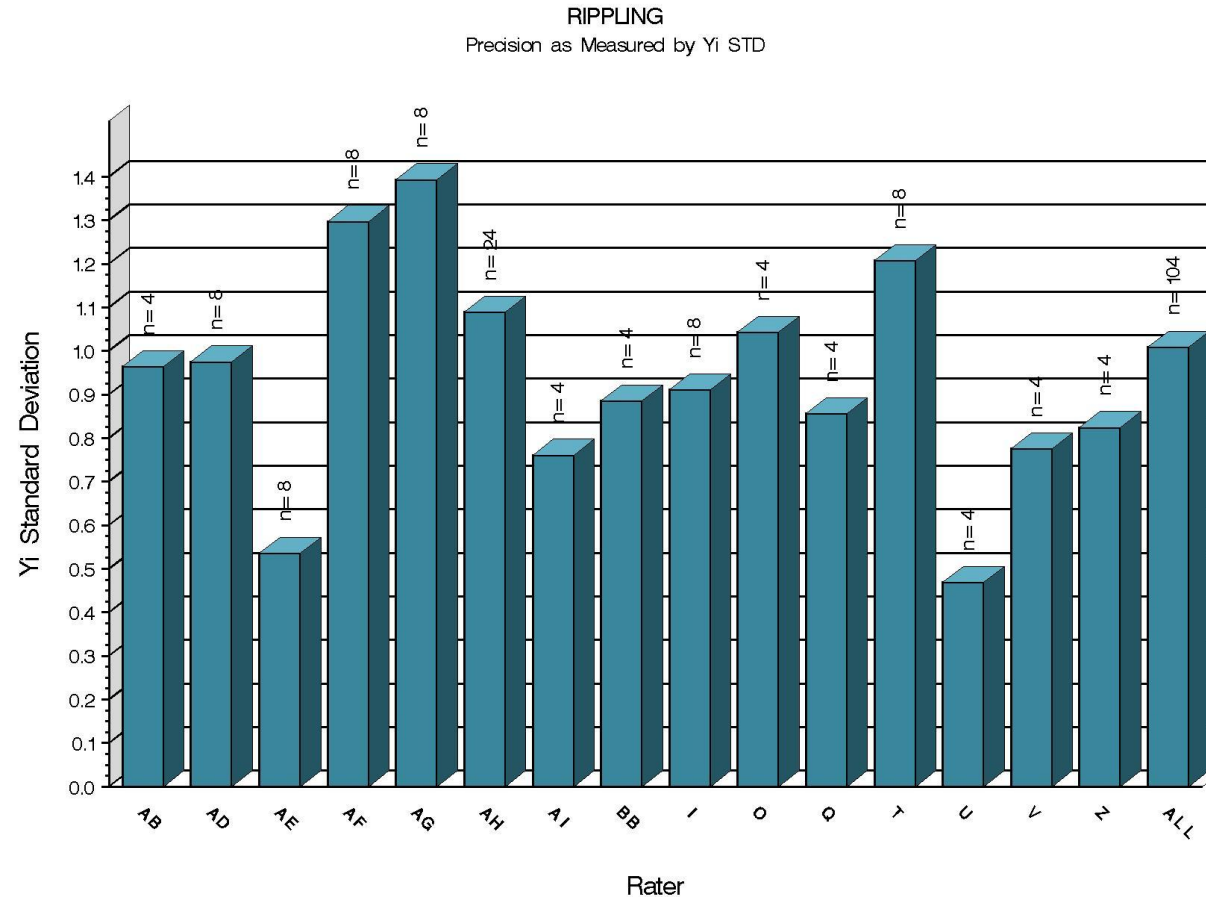
9:41:27 13NOV2025

[Return to Table of Contents](#)

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L37RC Precision Estimates



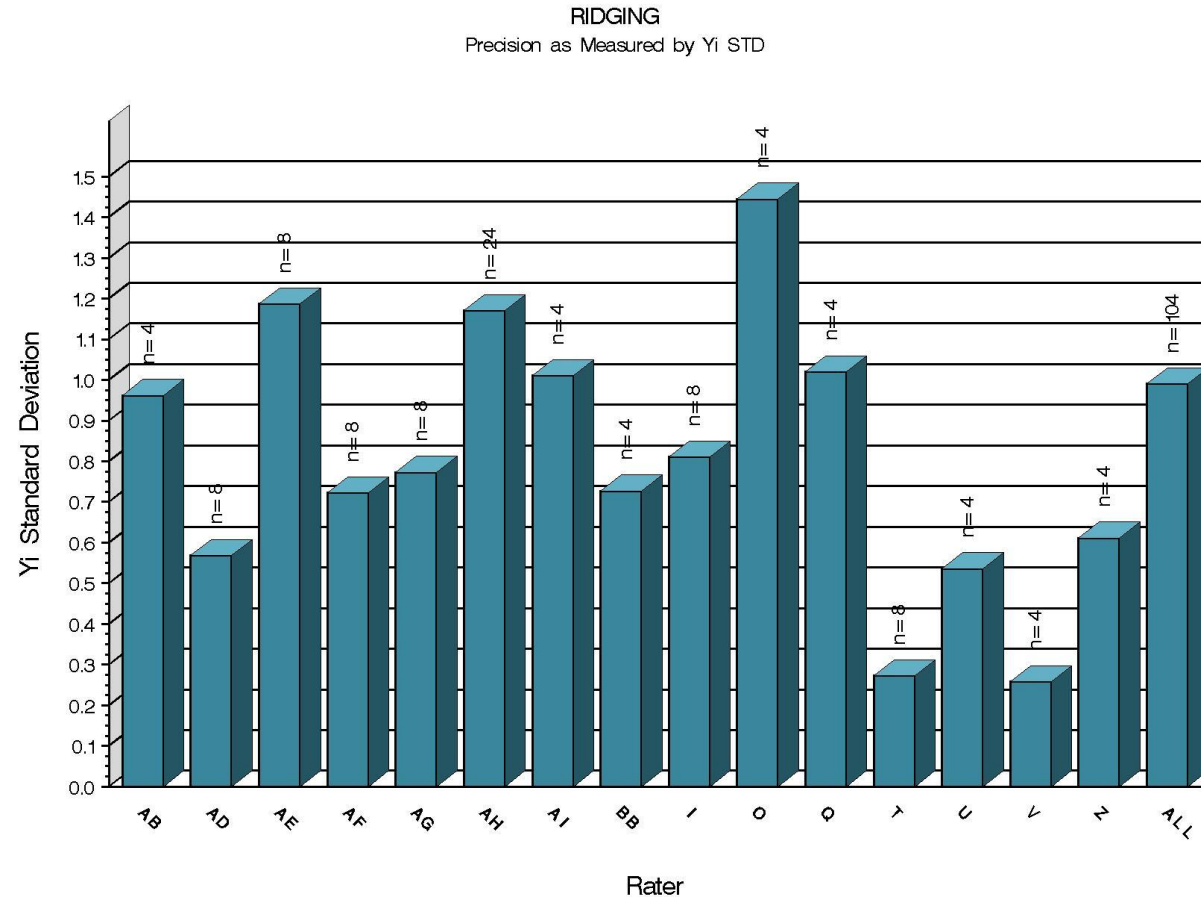
9:41:27 13NOV2025

[Return to Table of Contents](#)

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<https://www.astmtmc.org>



L37RC Precision Estimates



9:41:27 15NOV2025

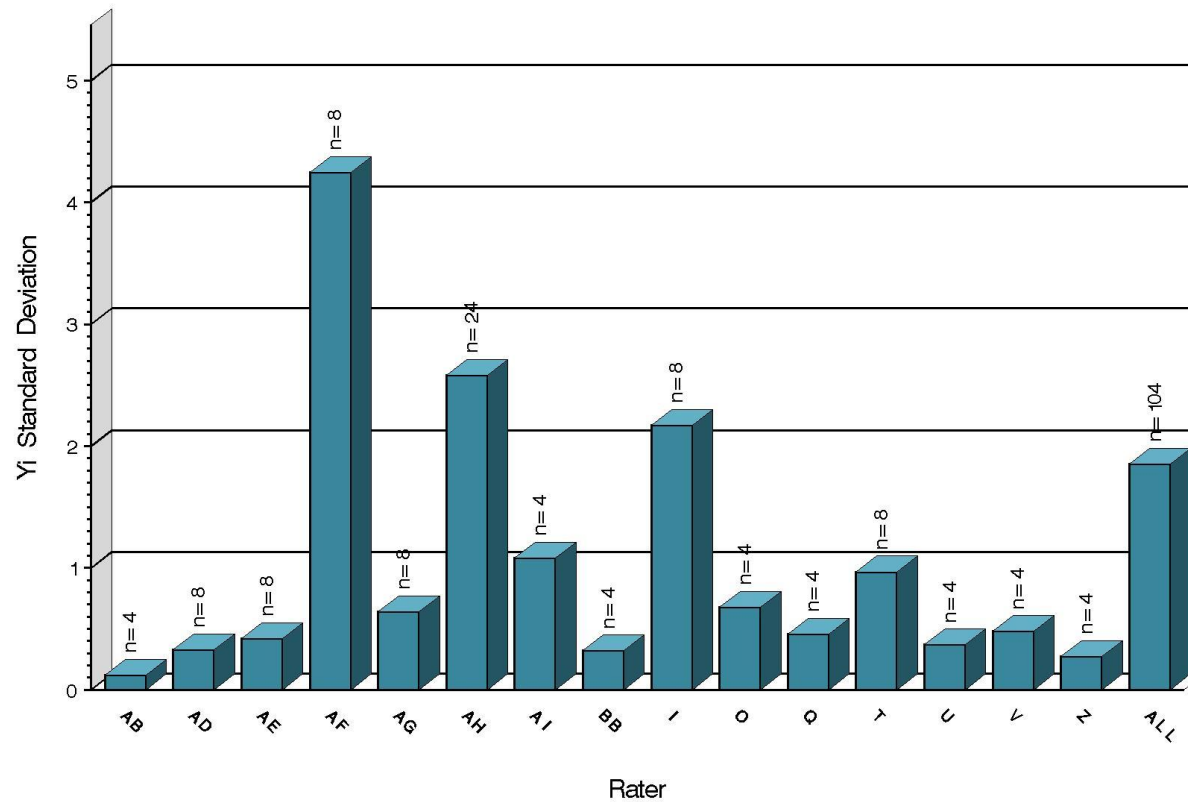
[Return to Table of Contents](#)

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<https://www.astmtmc.org>



L37RC Precision Estimates

SPITTING
Precision as Measured by Yi STD



9:41:27 15NOV2025

[Return to Table of Contents](#)

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L42RC

➡➡ October 2025

L42RC Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	18
Unacceptable Calibration Test	OC	3
Total		21

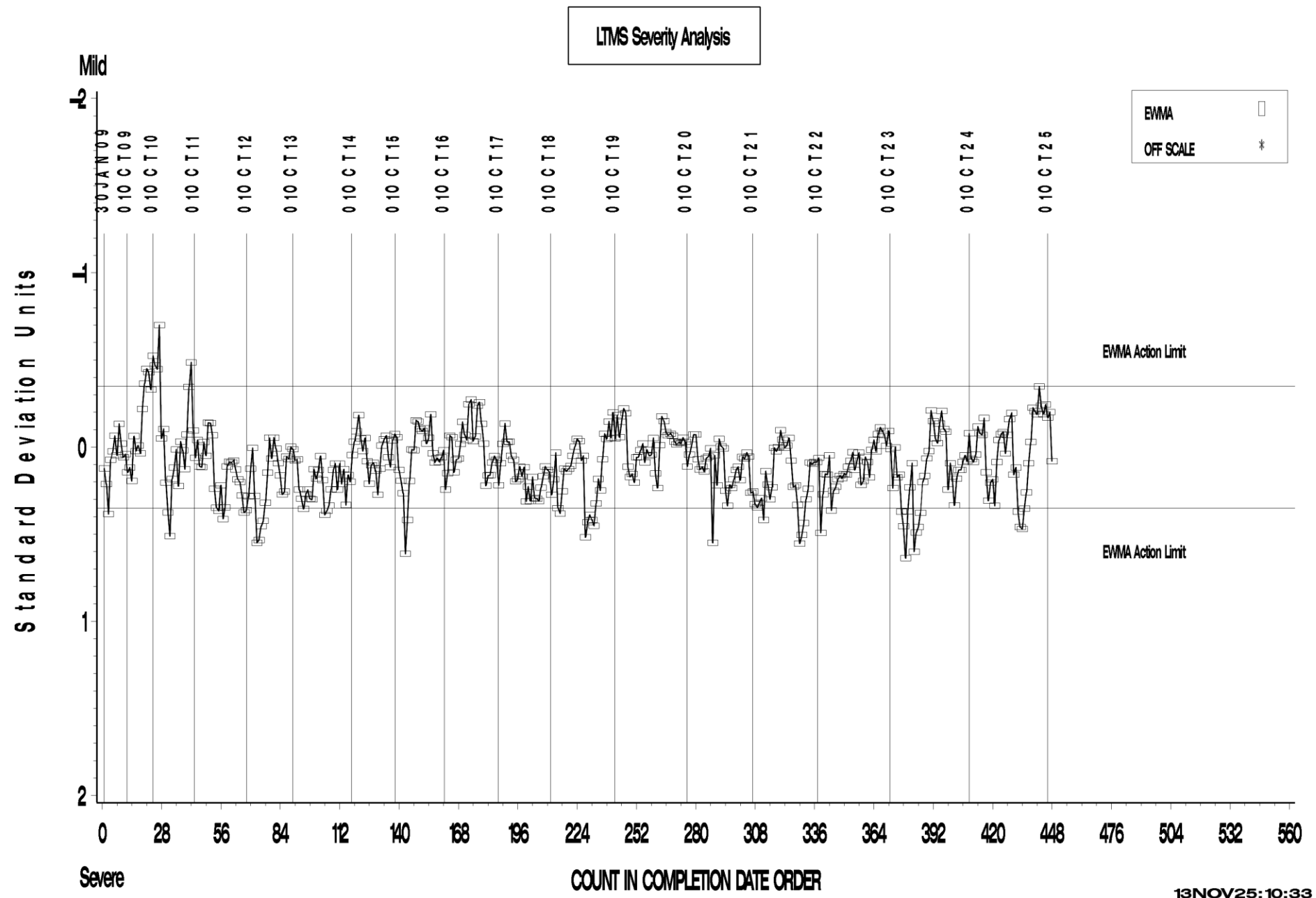
L42RC – Failed Test

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild)	OC	0
Unacceptable Calibration Test (Severe)	OC	2
Unacceptable Calibration Test (Multiple)	OC	0
Unacceptable Calibration Test (Precision)	OC	1
Total		3

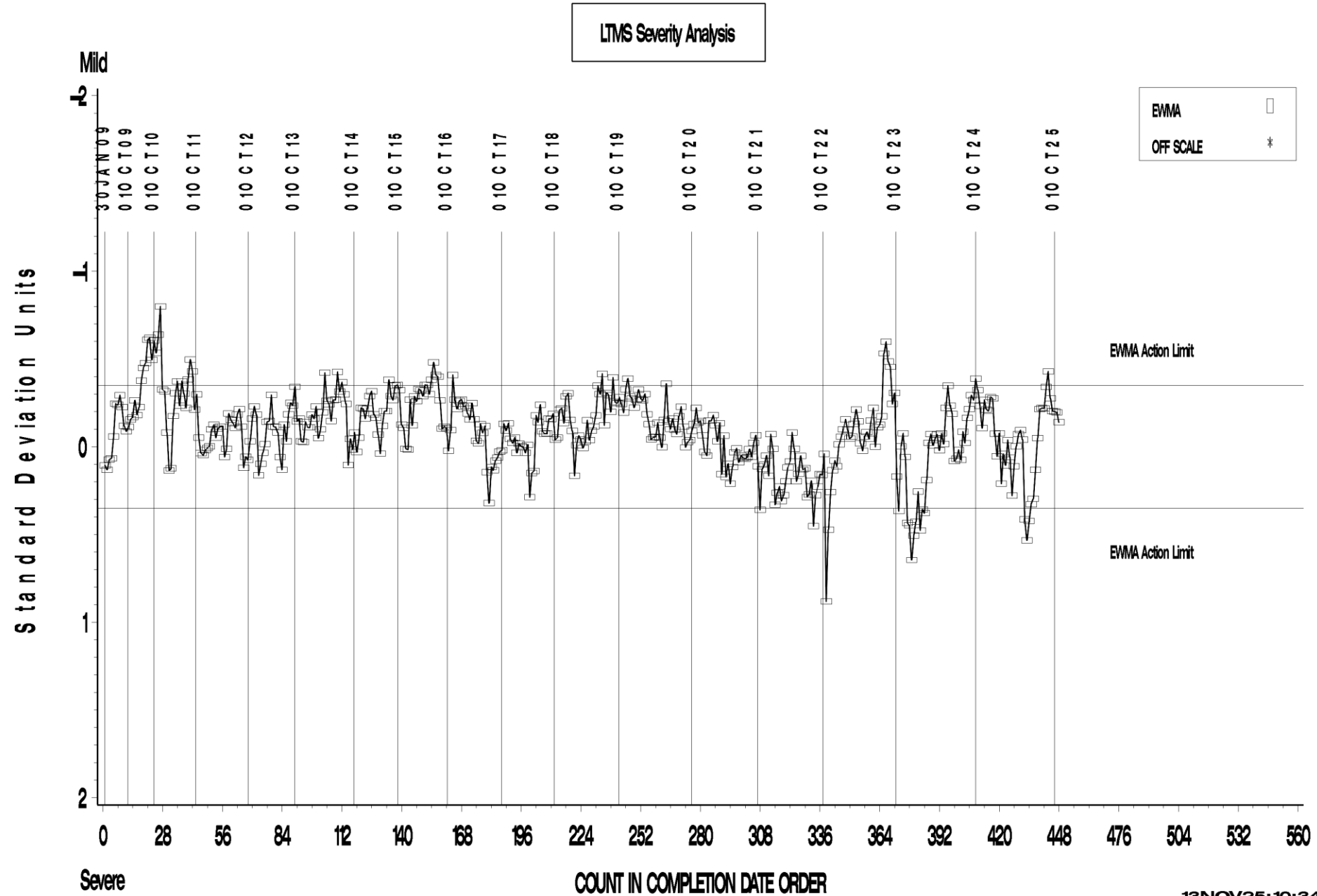
L42RC Test Severity

- Severity:
 - Ring scoring exceeded the action limit in the mild direction this period but finished the period within limits. Pinion scoring remained within the limits this period.
- Precision:
 - All parameters remained within the limits this reporting period.

PINION SCORING

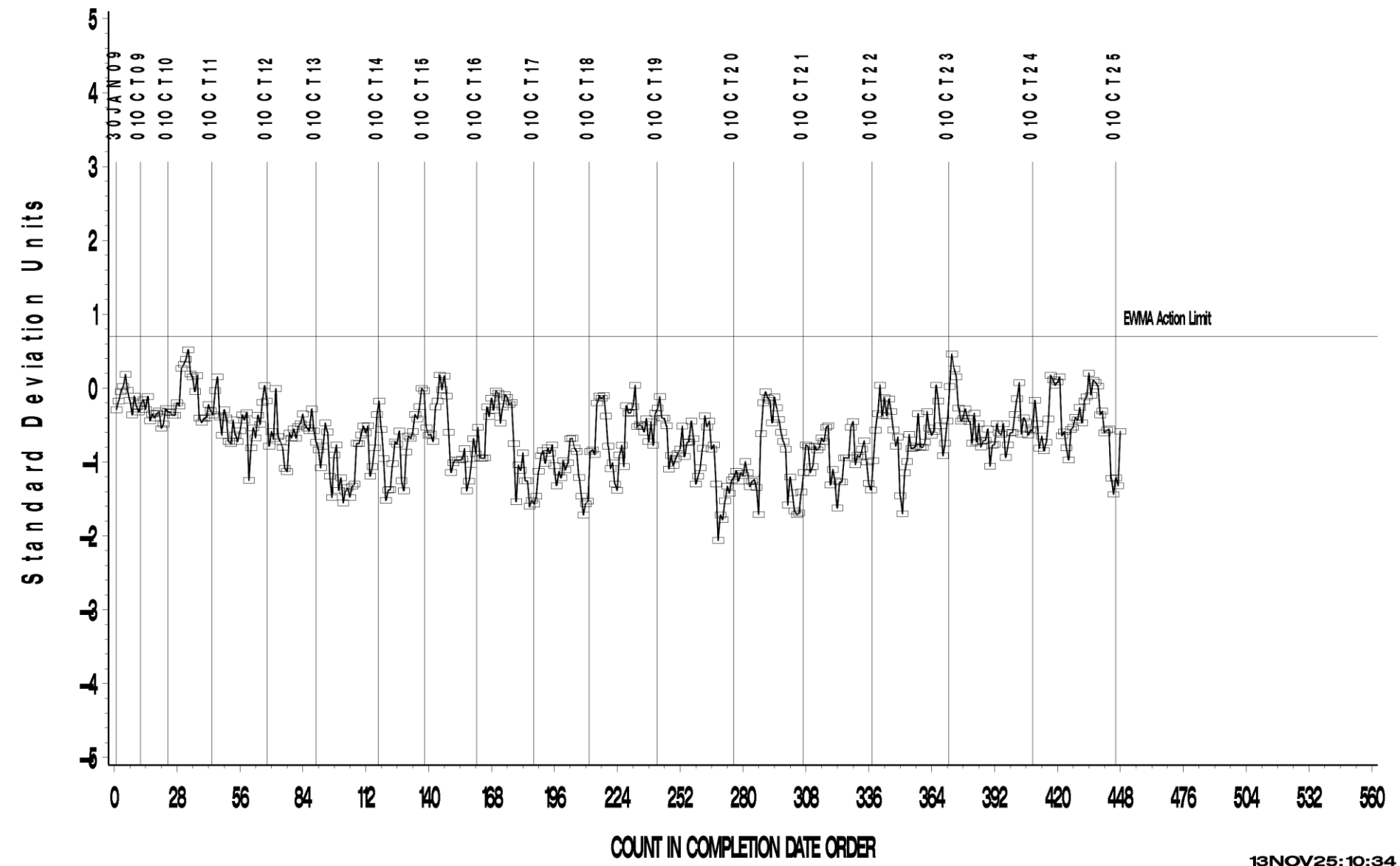


RING SCORING



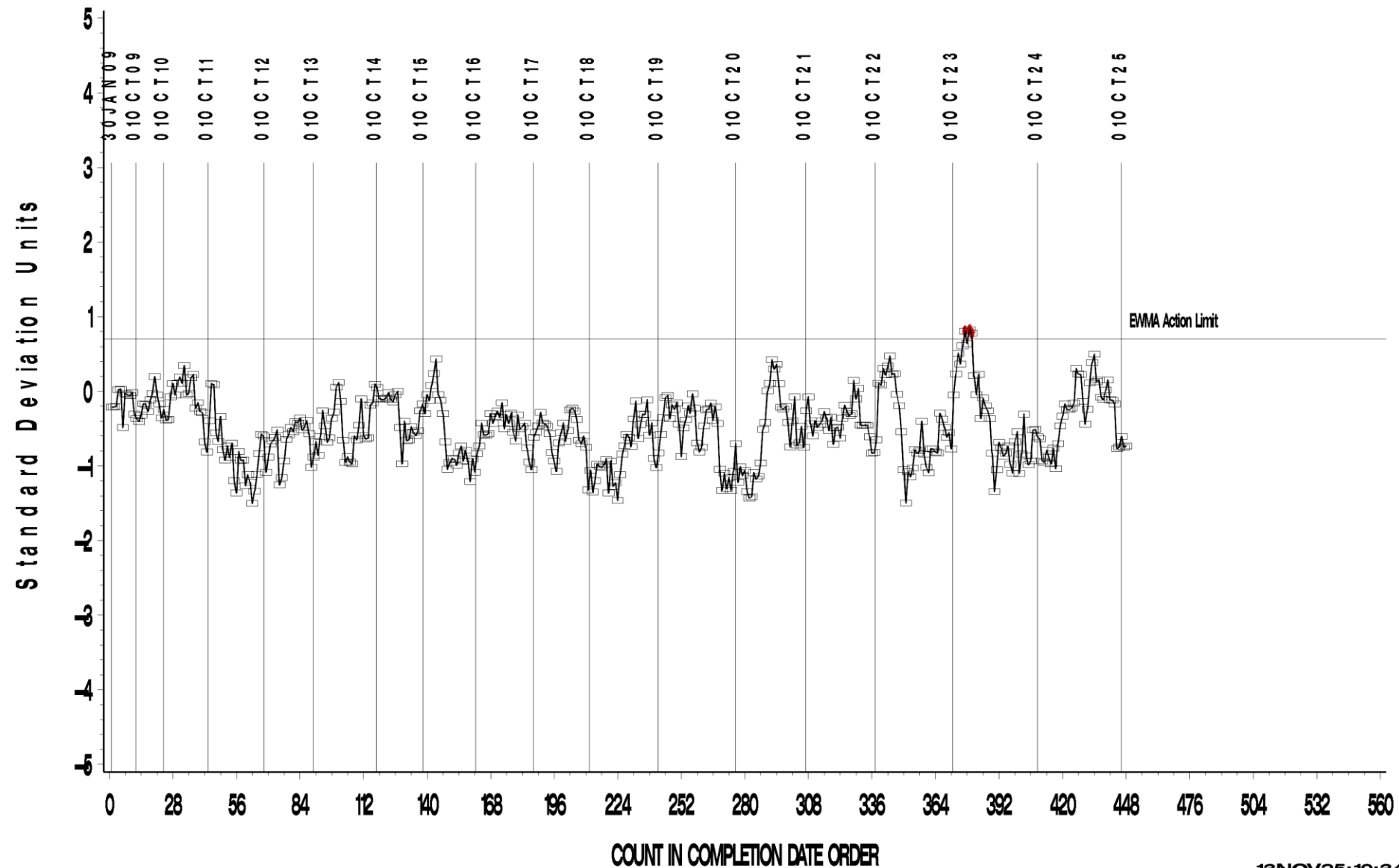
PINION SCORING

LTMS Precision Analysis



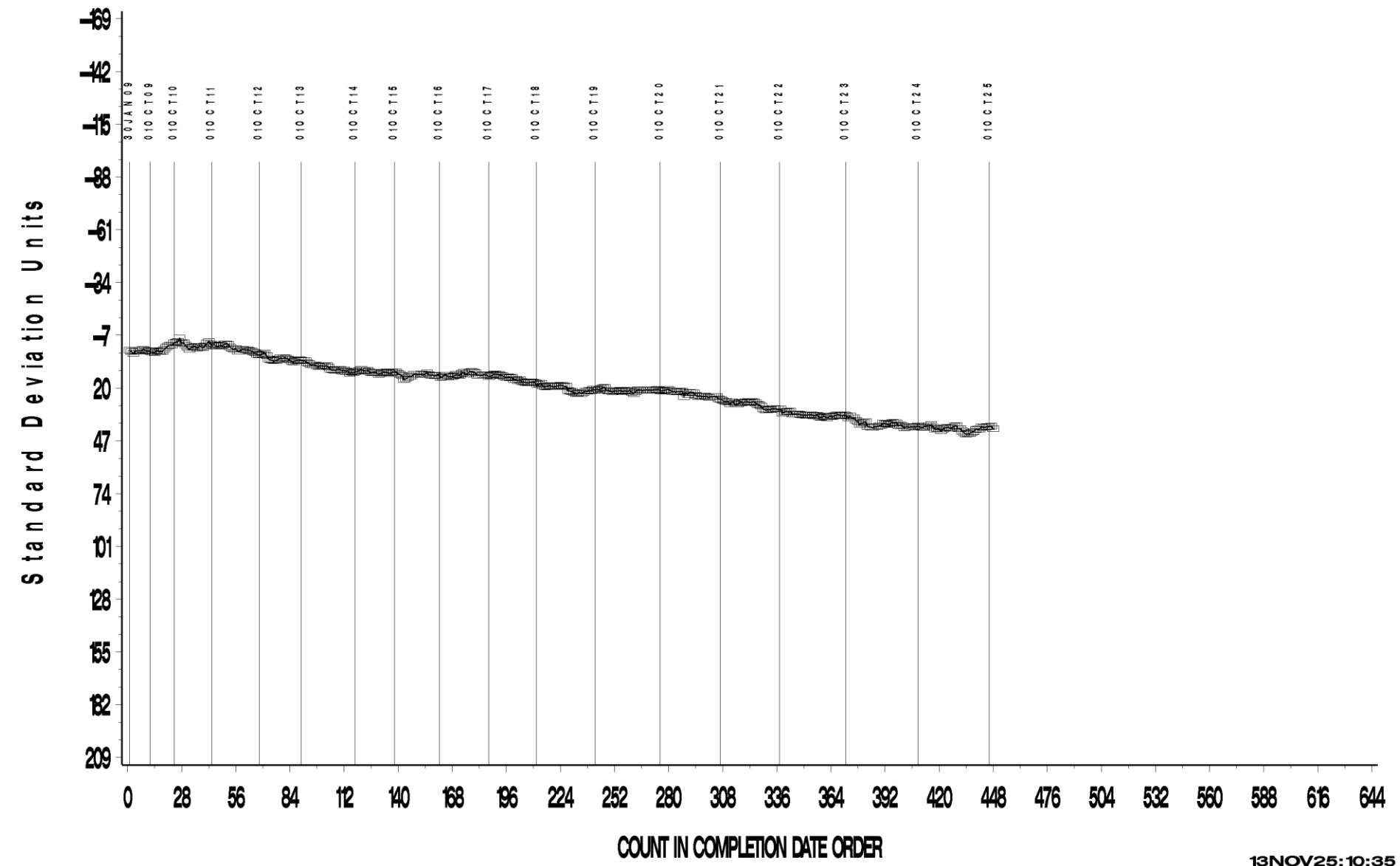
RING SCORING

LTMS Precision Analysis



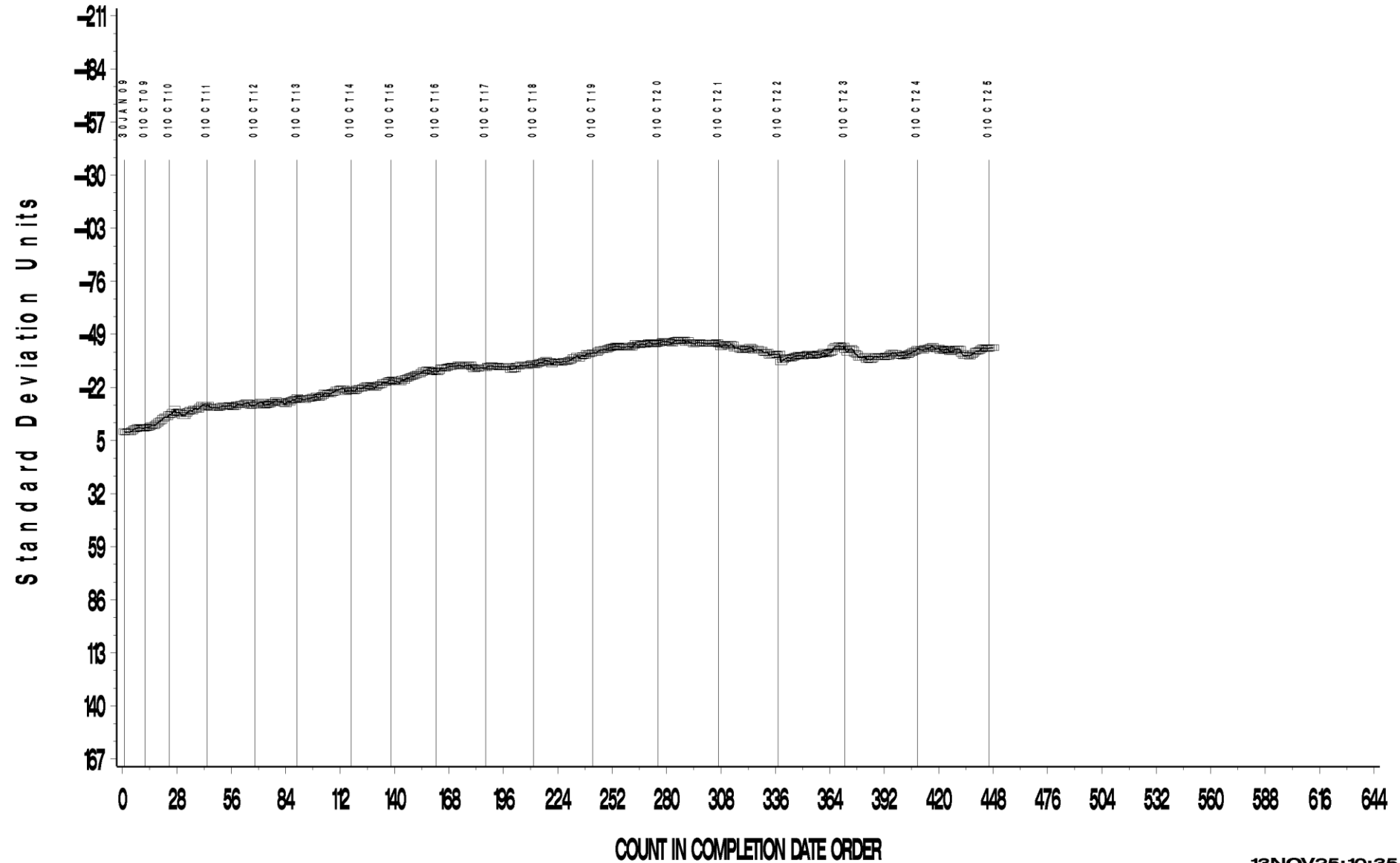
PINION SCORING

CUSUM Severity Analysis



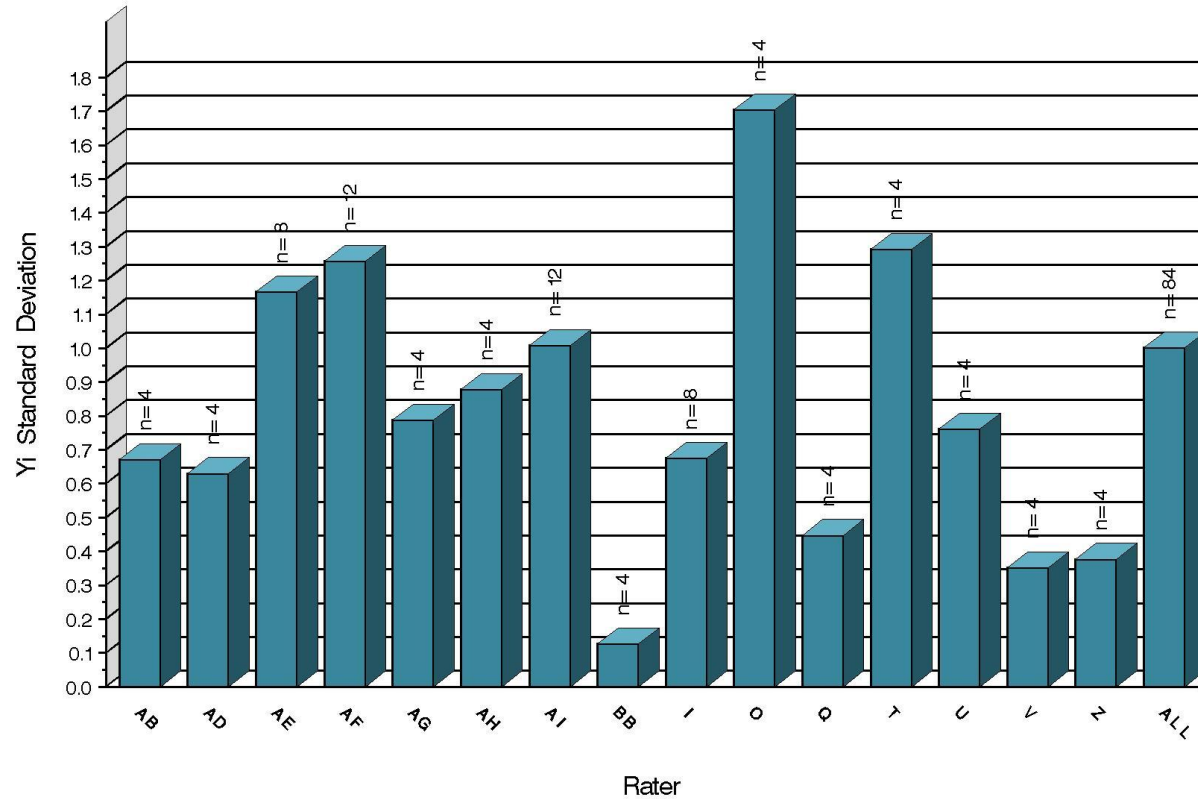
RING SCORING

CUSUM Severity Analysis



L42RC Pinion Scoring Estimates

PINION SCORING
Precision as Measured by Y_i STD



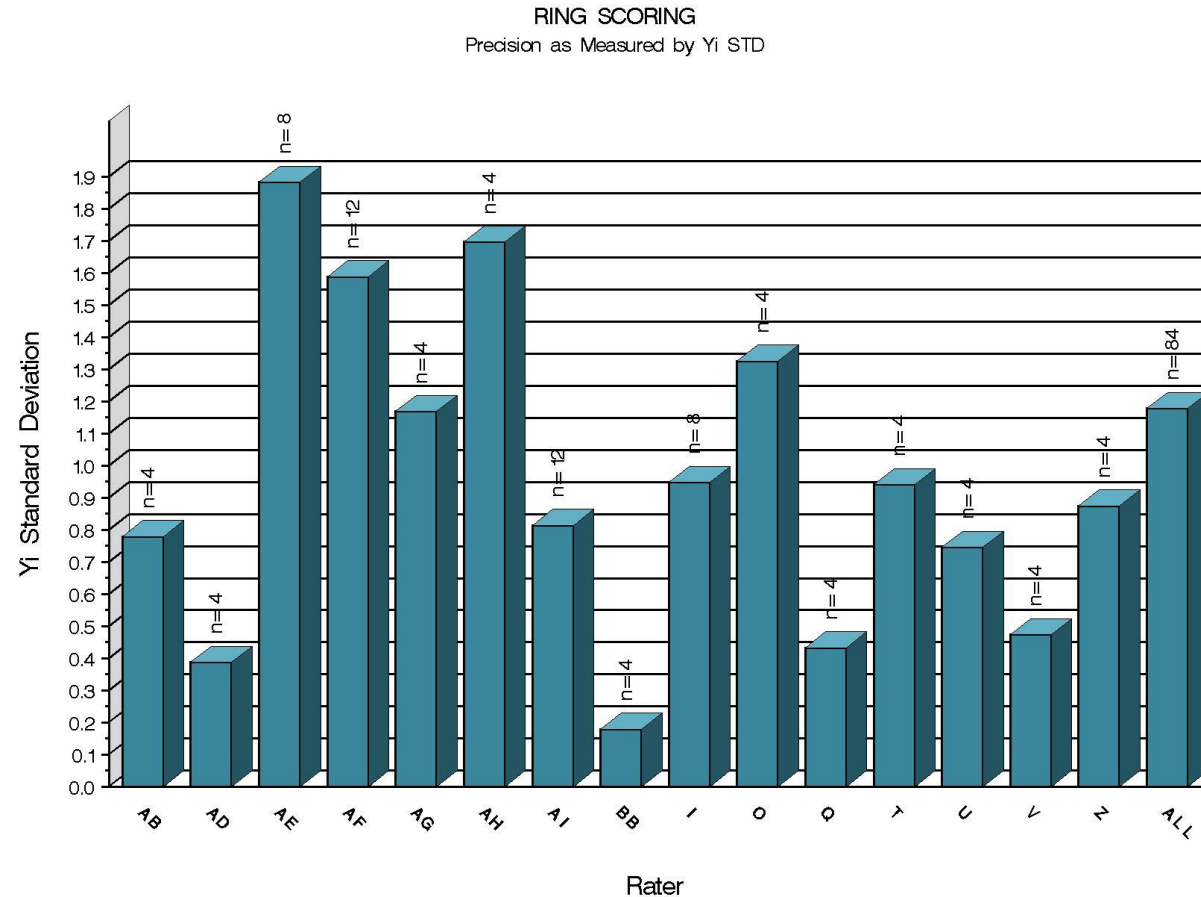
10/20/08 13NOV2025

[Return to Table of Contents](#)

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L42RC Ring Scoring Estimates



10/20/08 15NOV2025

[Return to Table of Contents](#)

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



L-60-1

➡➡ October 2025

L-60-1 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	19
Failed Calibration Test	OC	12
Operationally Invalid Calibration Test	LC	4
Acceptable Information Run	NI	12
Operationally Invalid Information Run	LI	1
Total		48

L-60-1 Failed Tests

Test Status	Validity Code	#
Failed Calibration Test (Mild)	OC	5
Failed Calibration Test (Severe)	OC	3
Failed Calibration Test (Multiple)	OC	3
Failed Calibration Test (Precision)	OC	1
Total		12

L-60-1 – Lost Tests

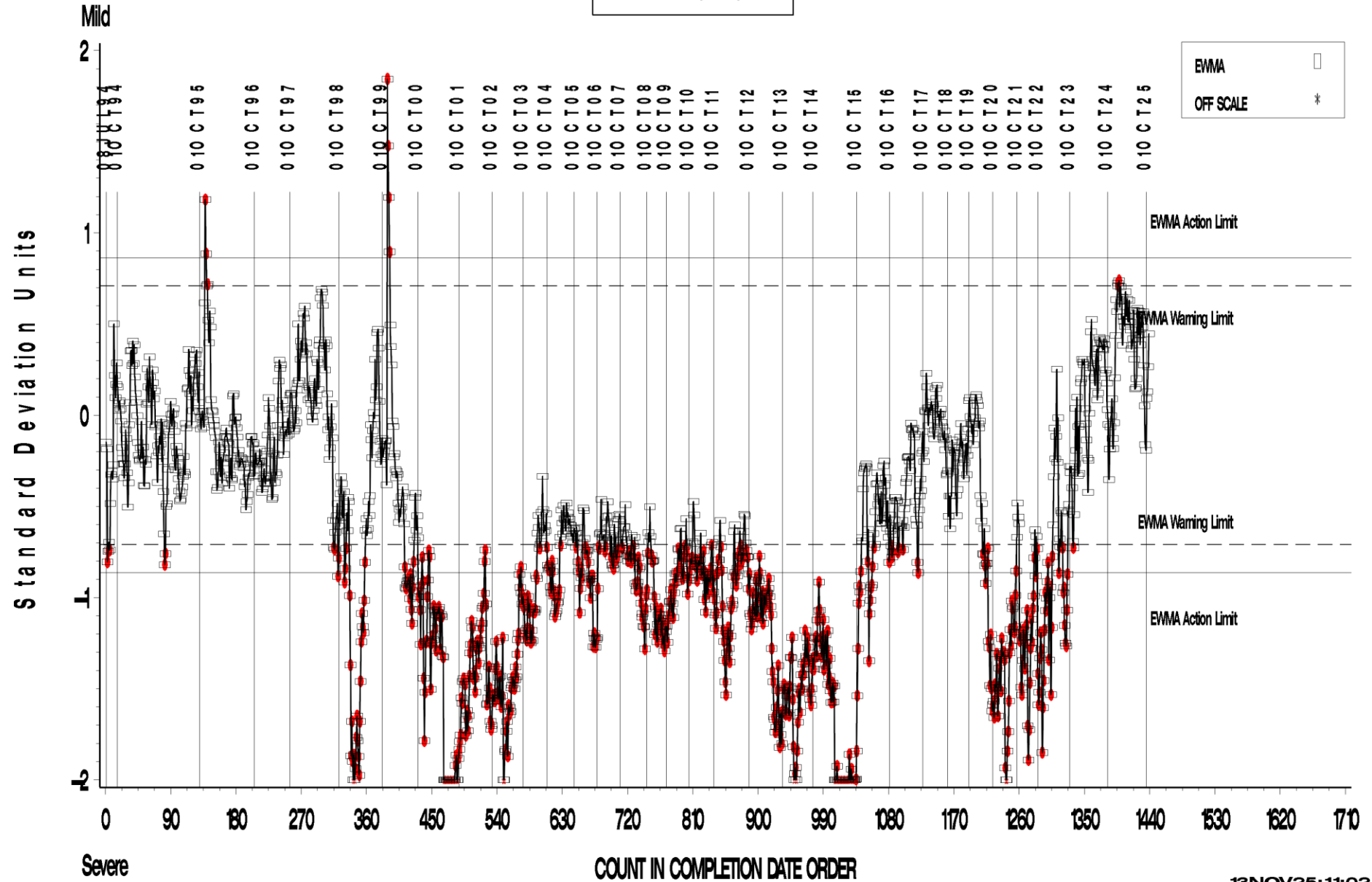
Test Status	Validity Code	#
High oil consumption	LC	1
Post test analytic error	LC	1
Alternator malfunction	LC	1
Post tests analytics performed after 48hrs	LC	1
Airflow out of spec	LI	1
Total		5

L-60-1 Test Severity

- **Severity:**
 - ASL, PEN, and TOL all exceeded the action limit this period in the mild direction and have since return within limits.
 - VISI finished the reporting period exceeding the action limit in the severe direction.
- **Precision:**
 - VISI ended the reporting period exceeding the action limit

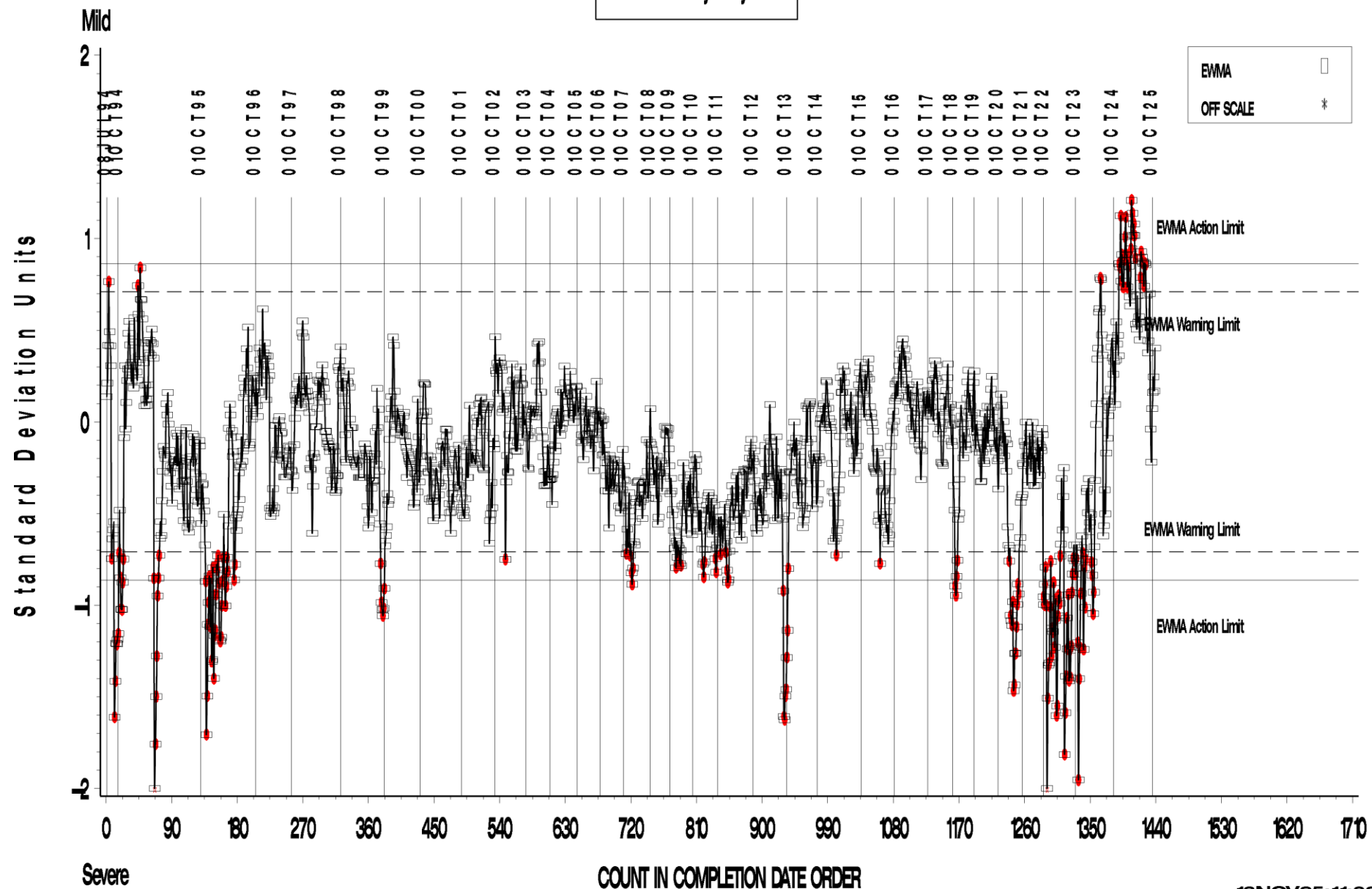
REF. FINAL AVERAGE CARBON/ VARNISH

LTMS Severity Analysis



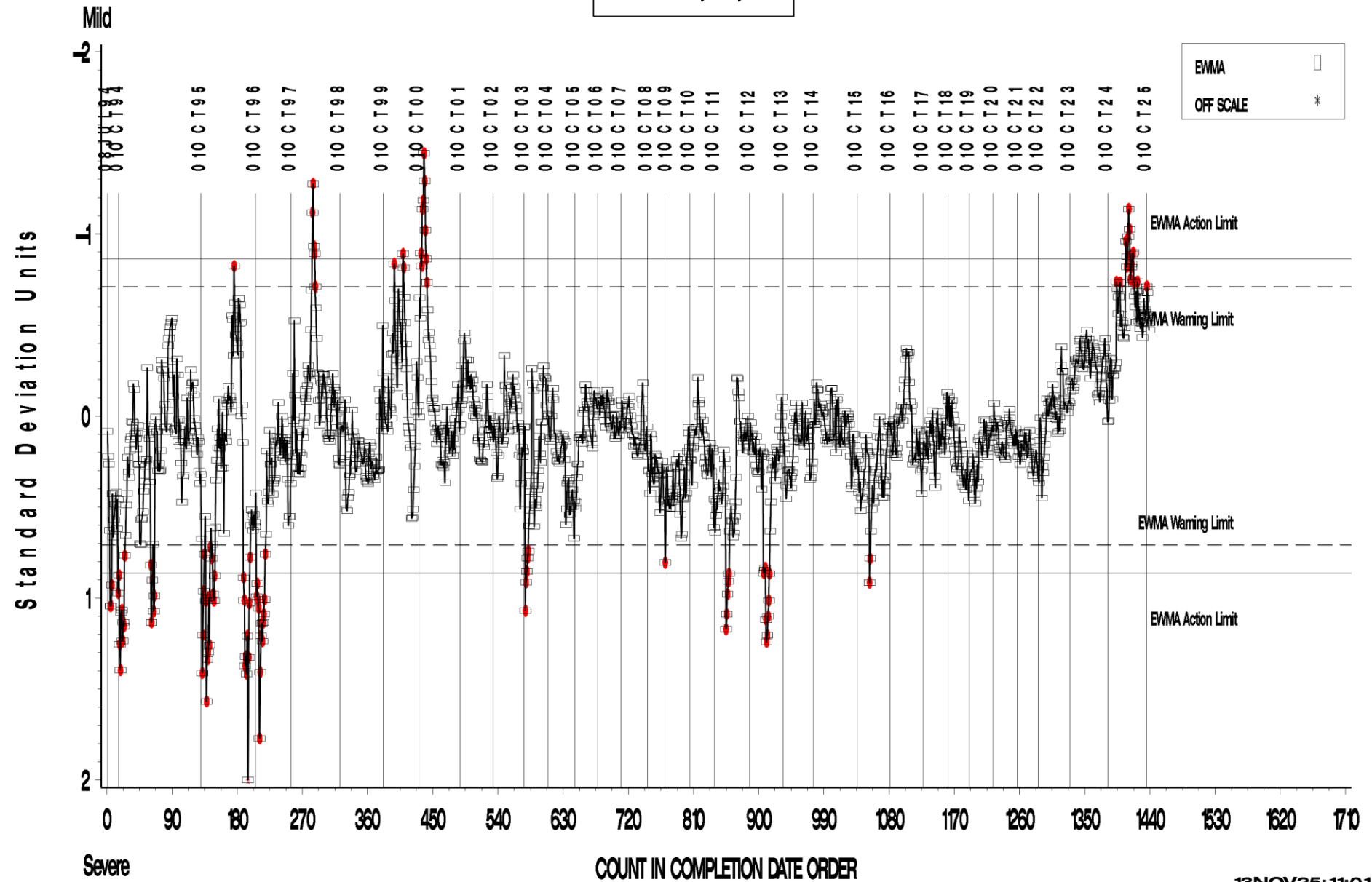
REF. FINAL AVERAGE SLUDGE

LTMS Severity Analysis



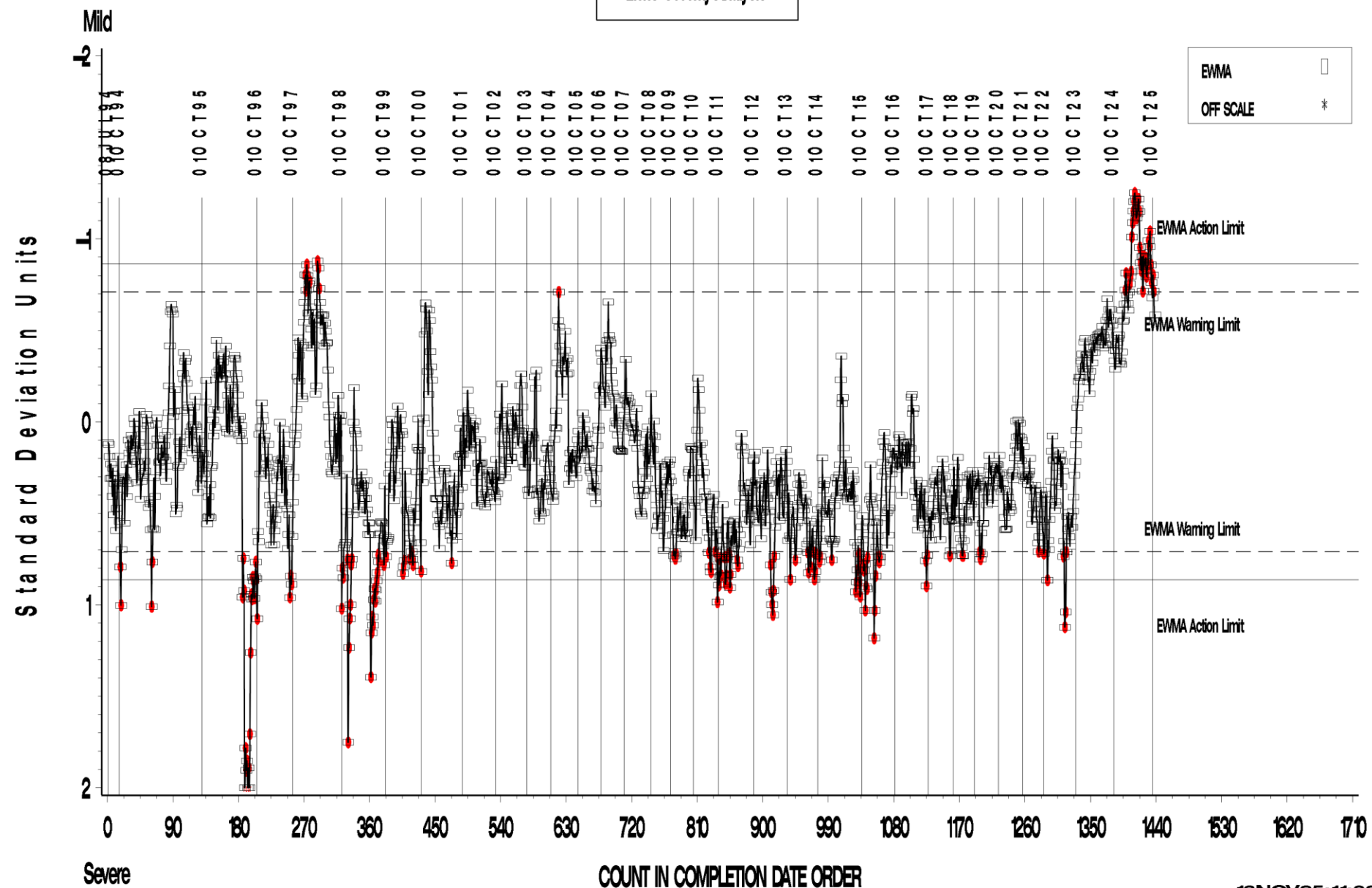
REF. FINAL PENTANE INSOLUBLES

LTMS Severity Analysis



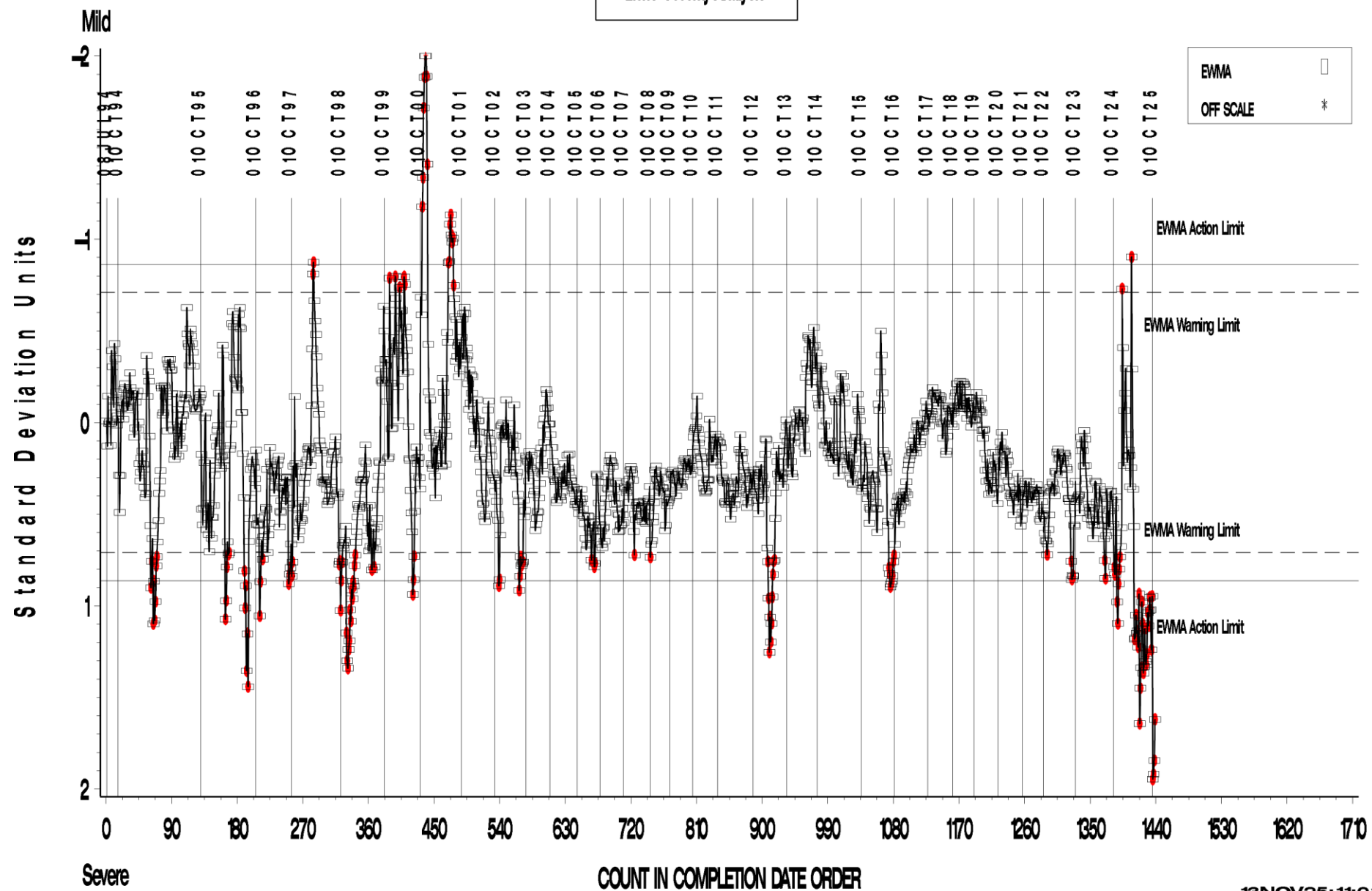
REF. FINAL TOLUENE INSOLUBLES

LTMS Severity Analysis



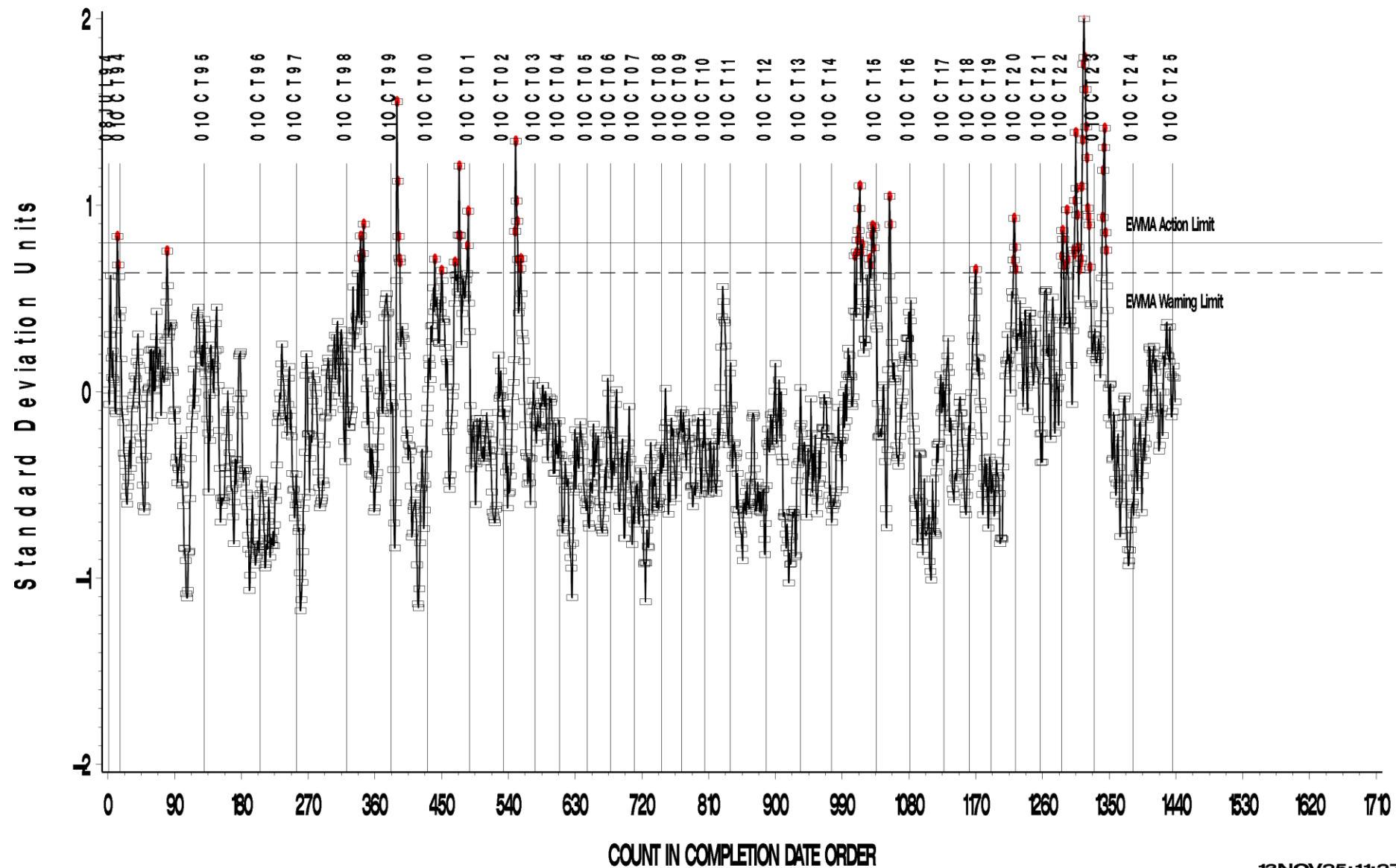
REF. FINAL VISCOSITY INCREASE

LTMS Severity Analysis



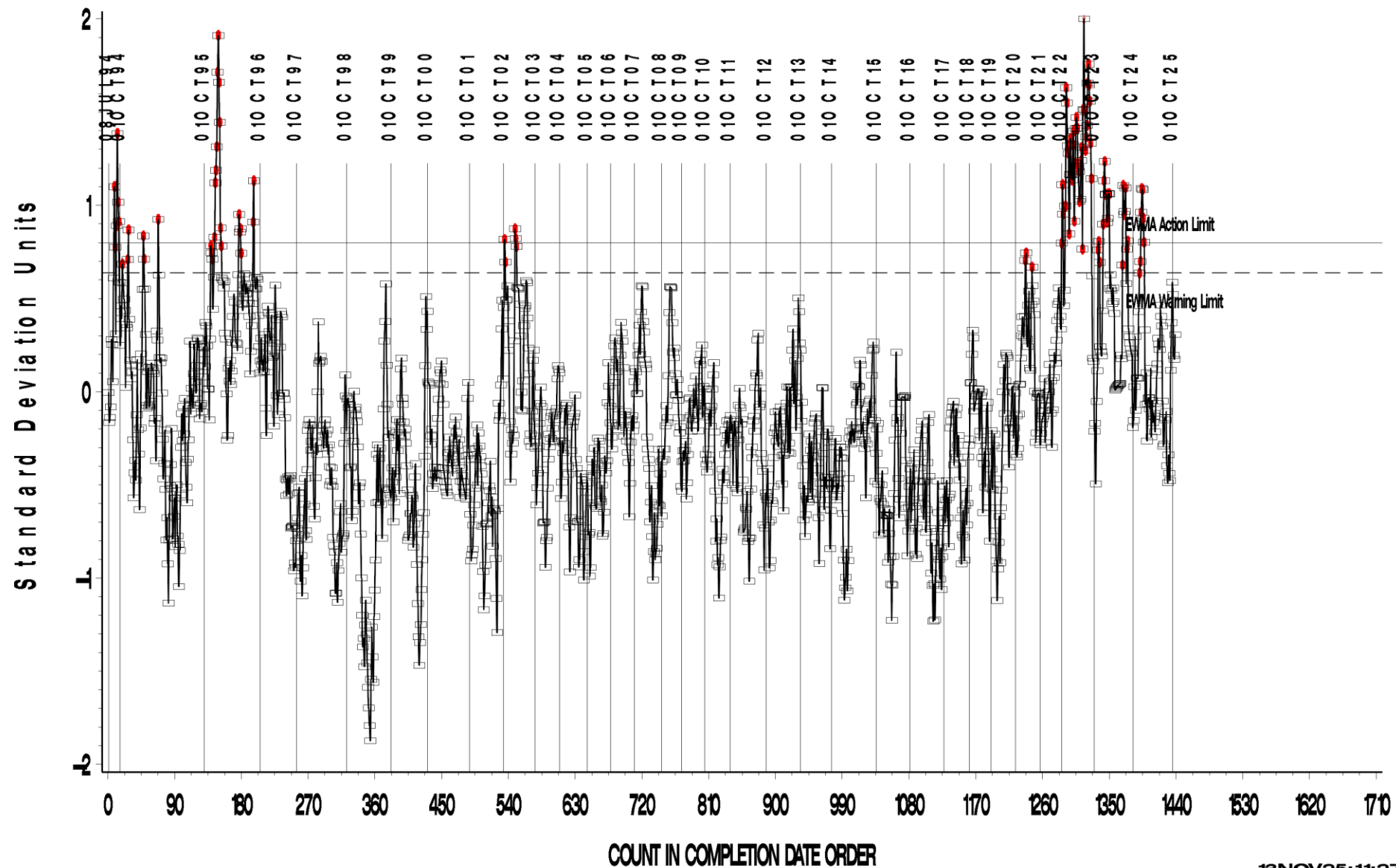
REF. FINAL AVERAGE CARBON/ VARNISH

LTMS Precision Analysis



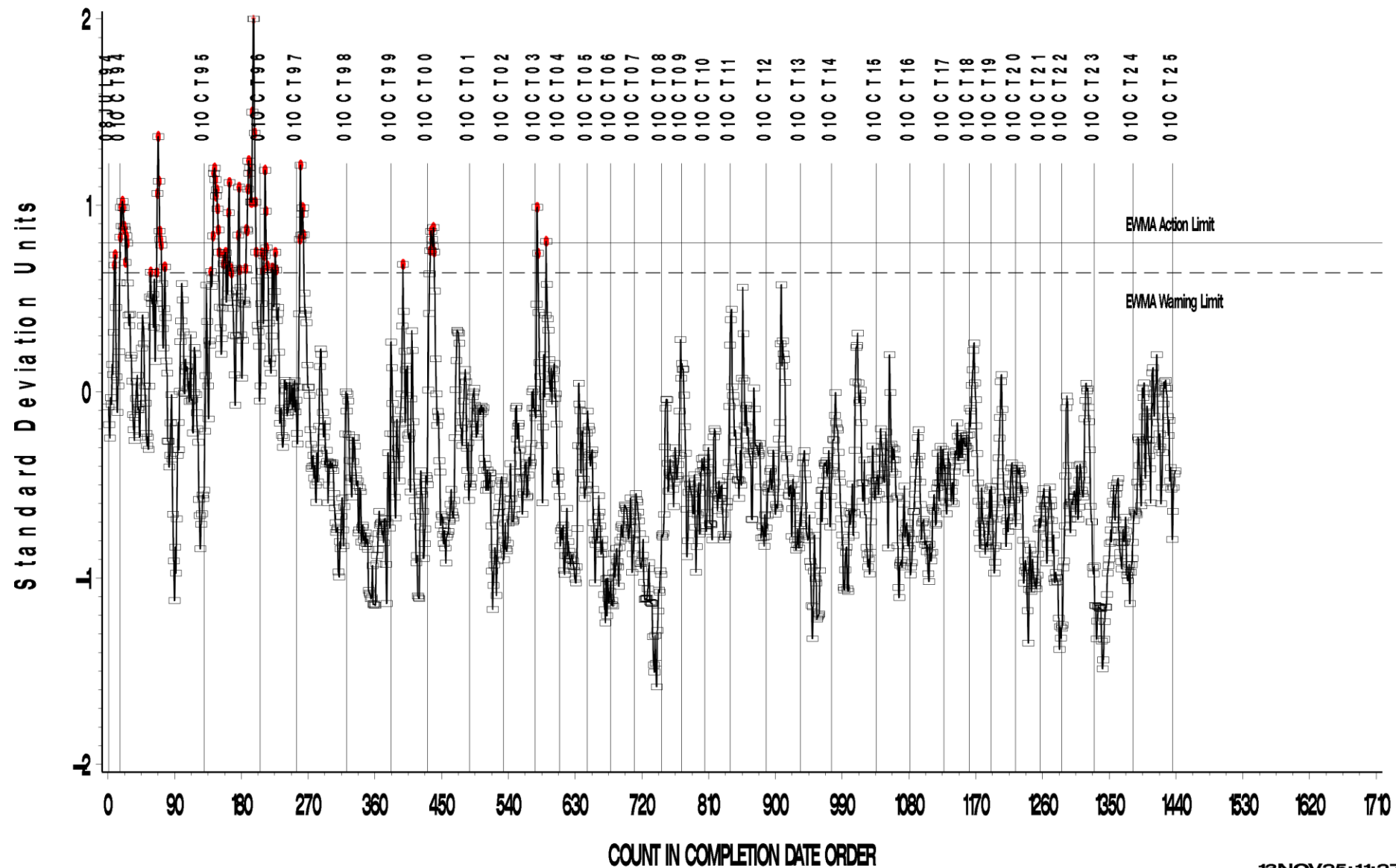
REF. FINAL AVERAGE SLUDGE

LTMS Precision Analysis



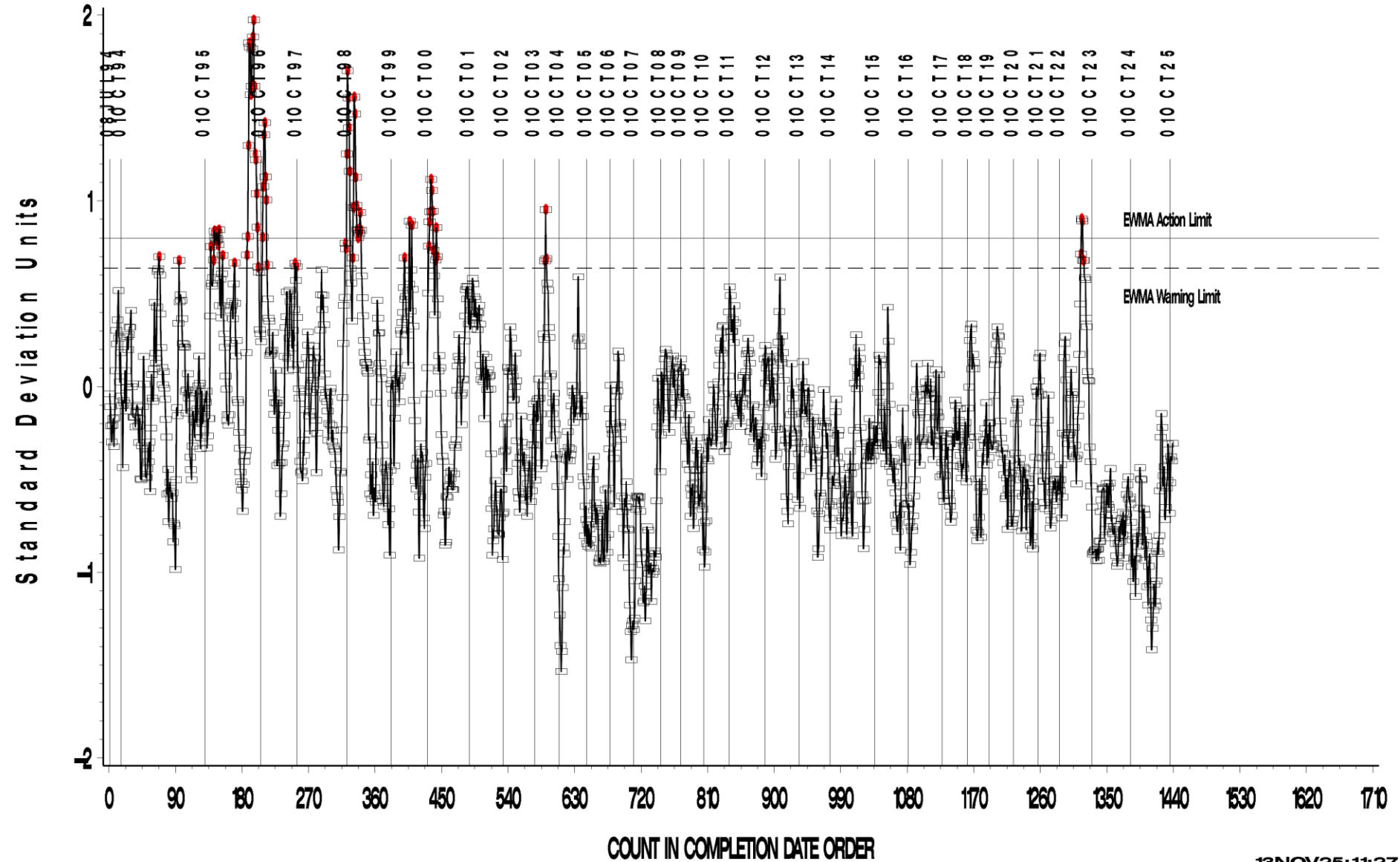
REF. FINAL PENTANE INSOLUBLES

LTMS Precision Analysis



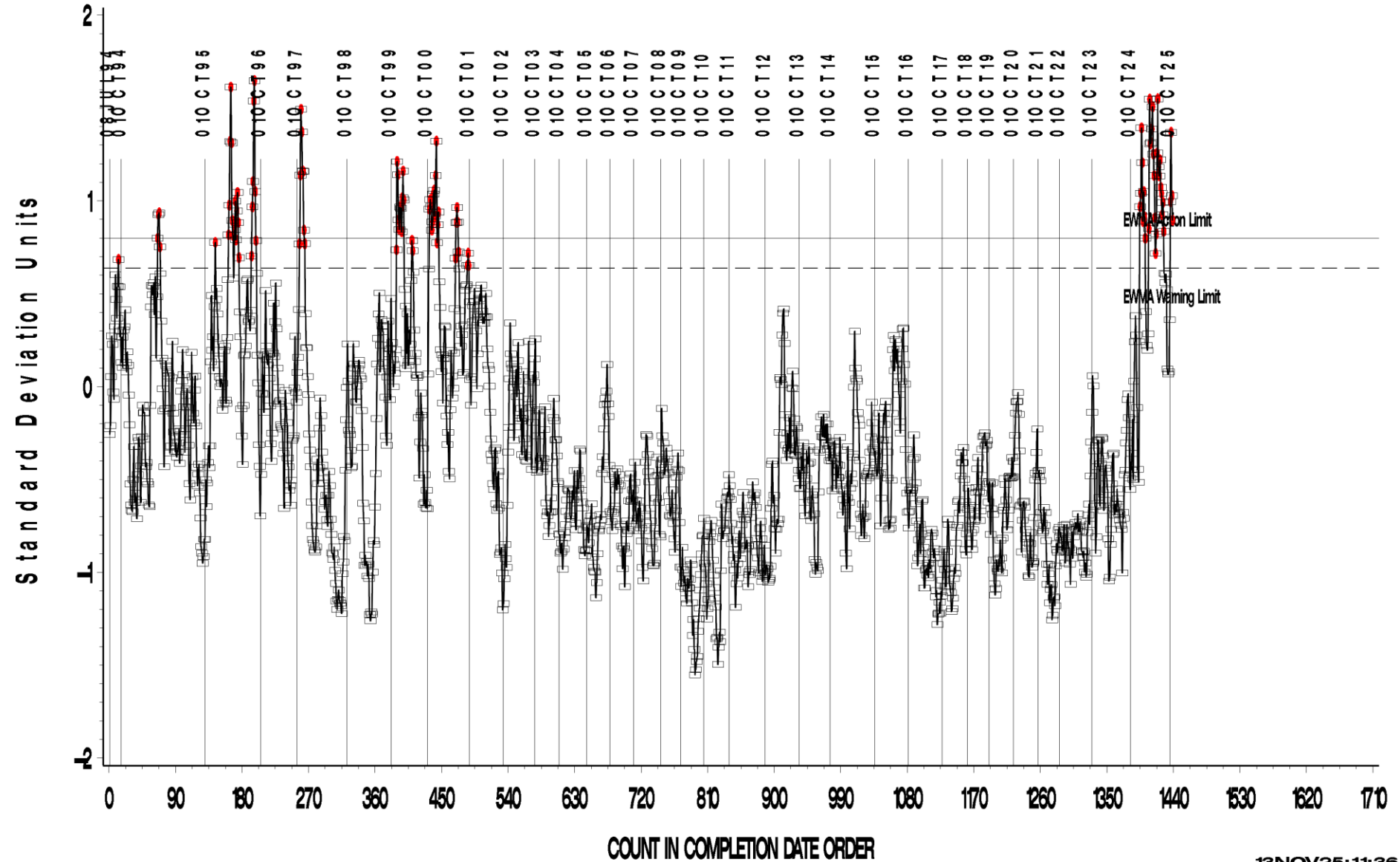
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LTMS Precision Analysis



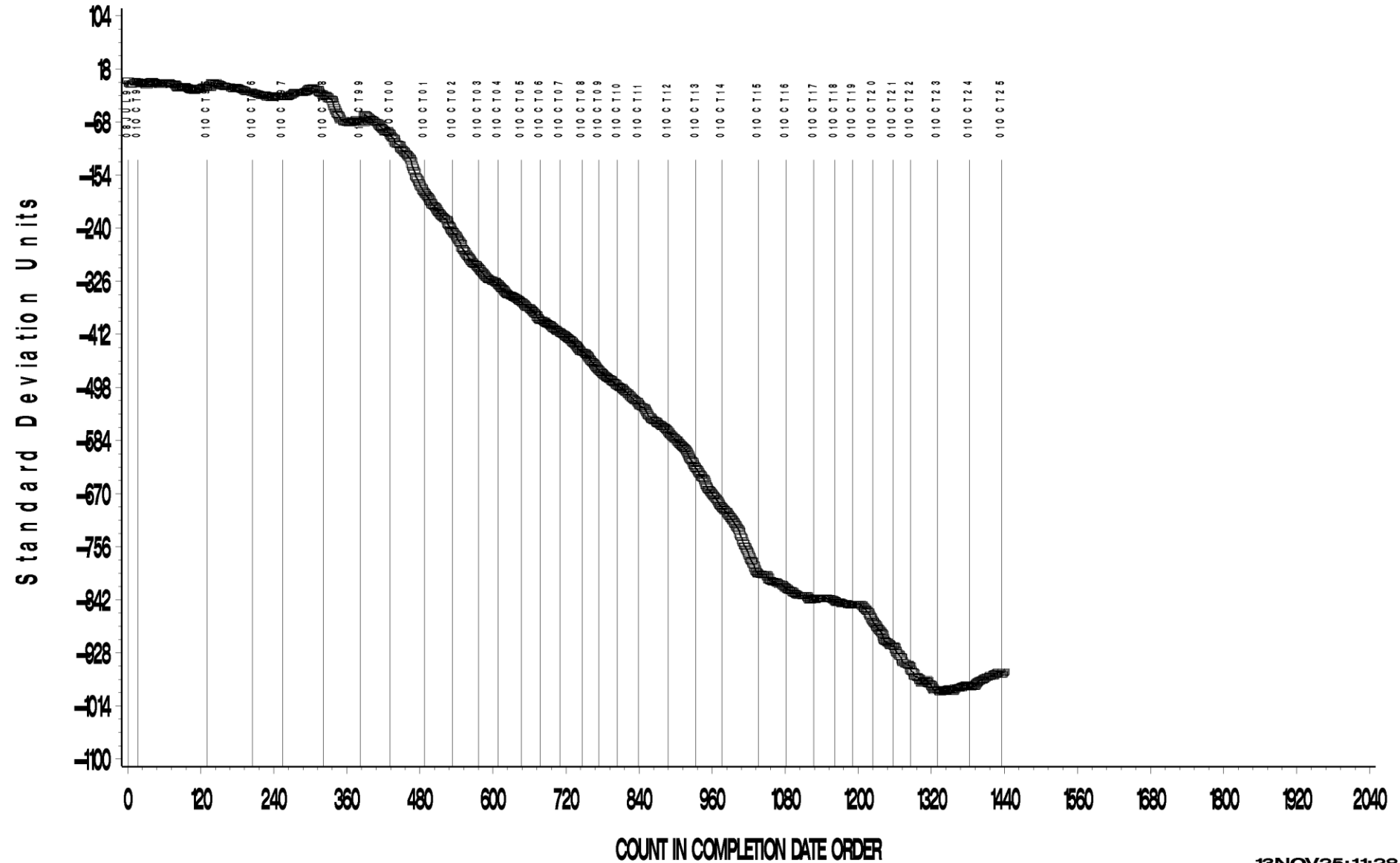
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LTMS Precision Analysis



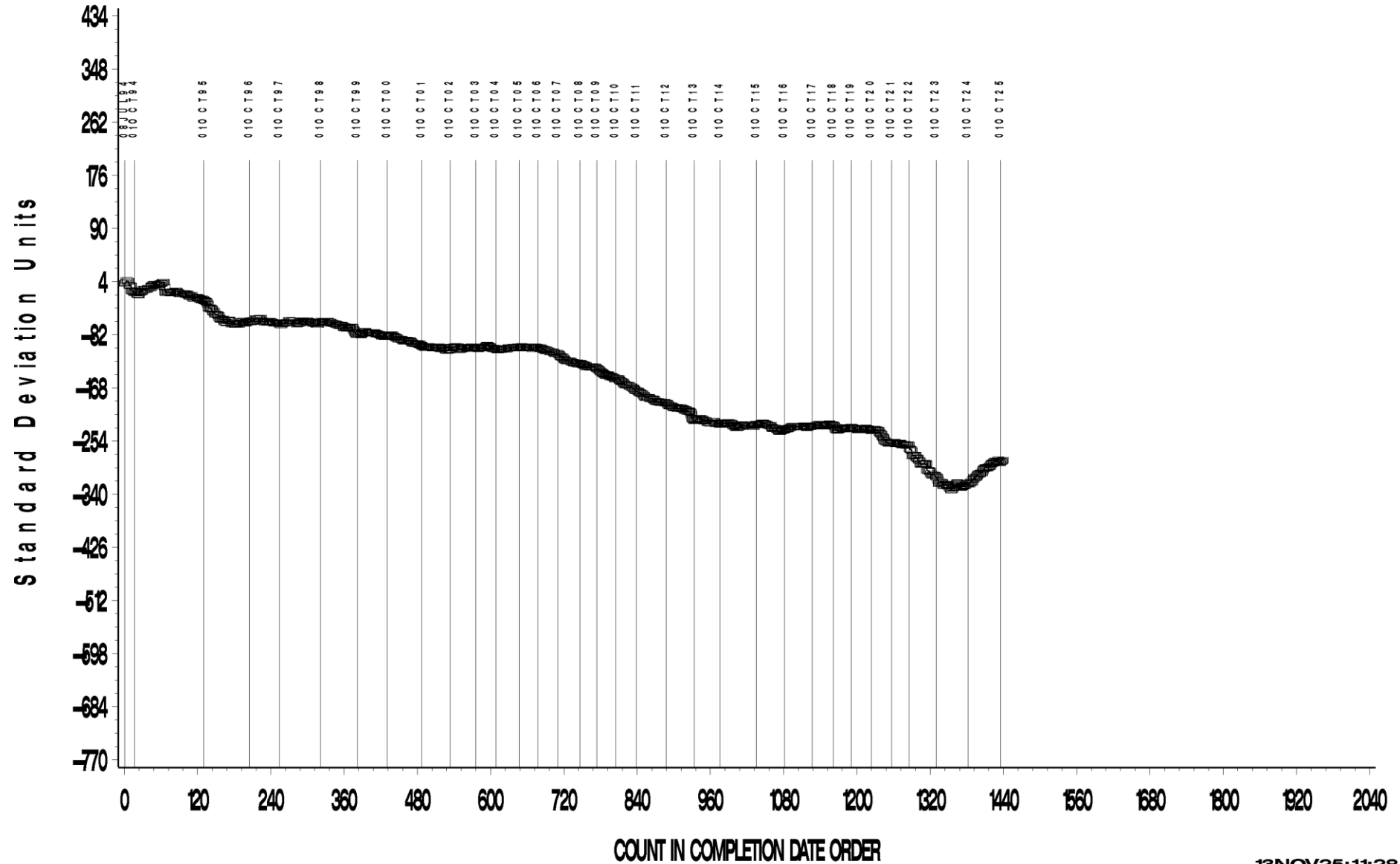
REF. FINAL AVERAGE CARBON/ VARNISH

CUSUM Severity Analysis



REF. FINAL AVERAGE SLUDGE

CUSUM Severity Analysis



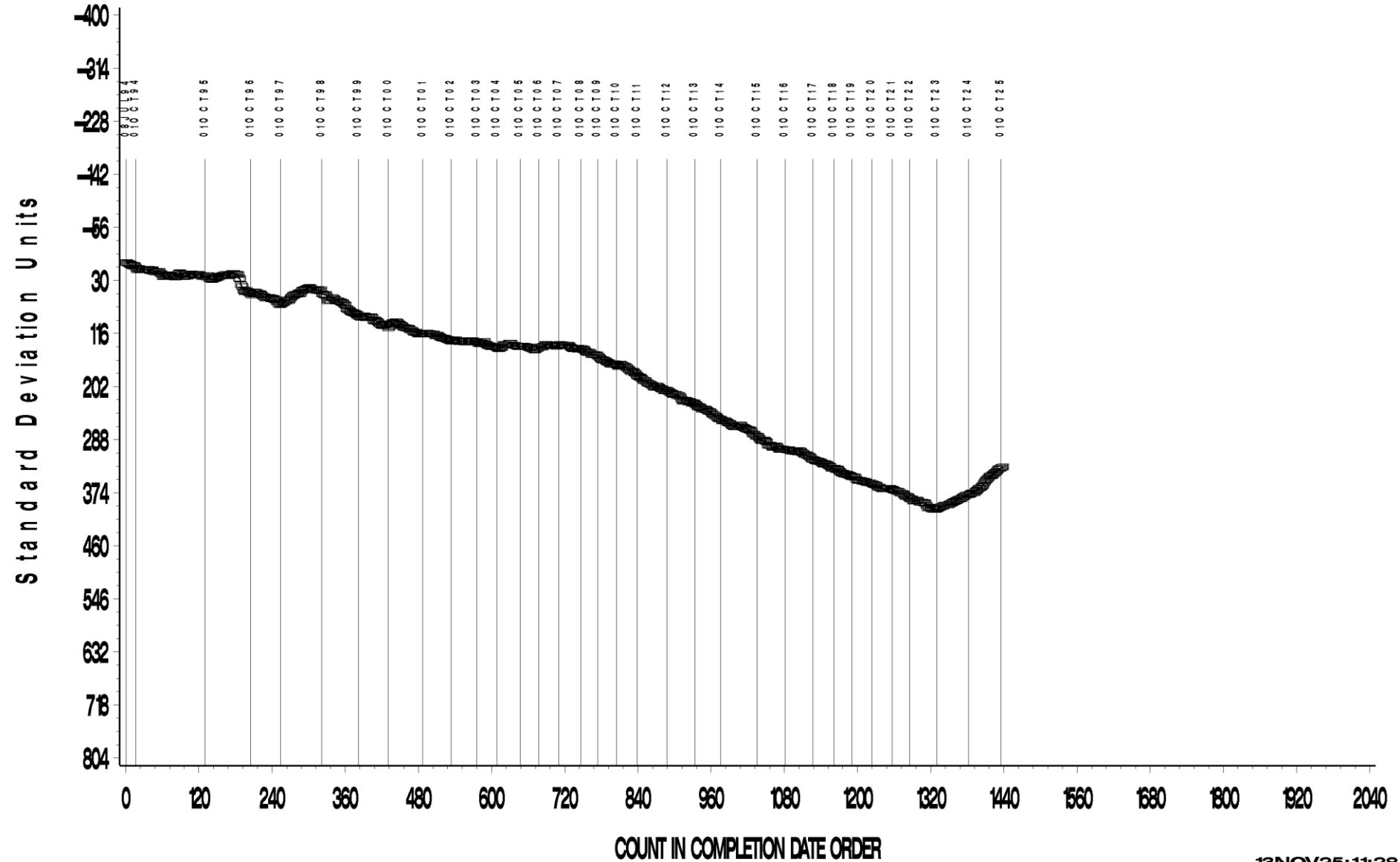
REF. FINAL PENTANE INSOLUBLES

CUSUM Severity Analysis



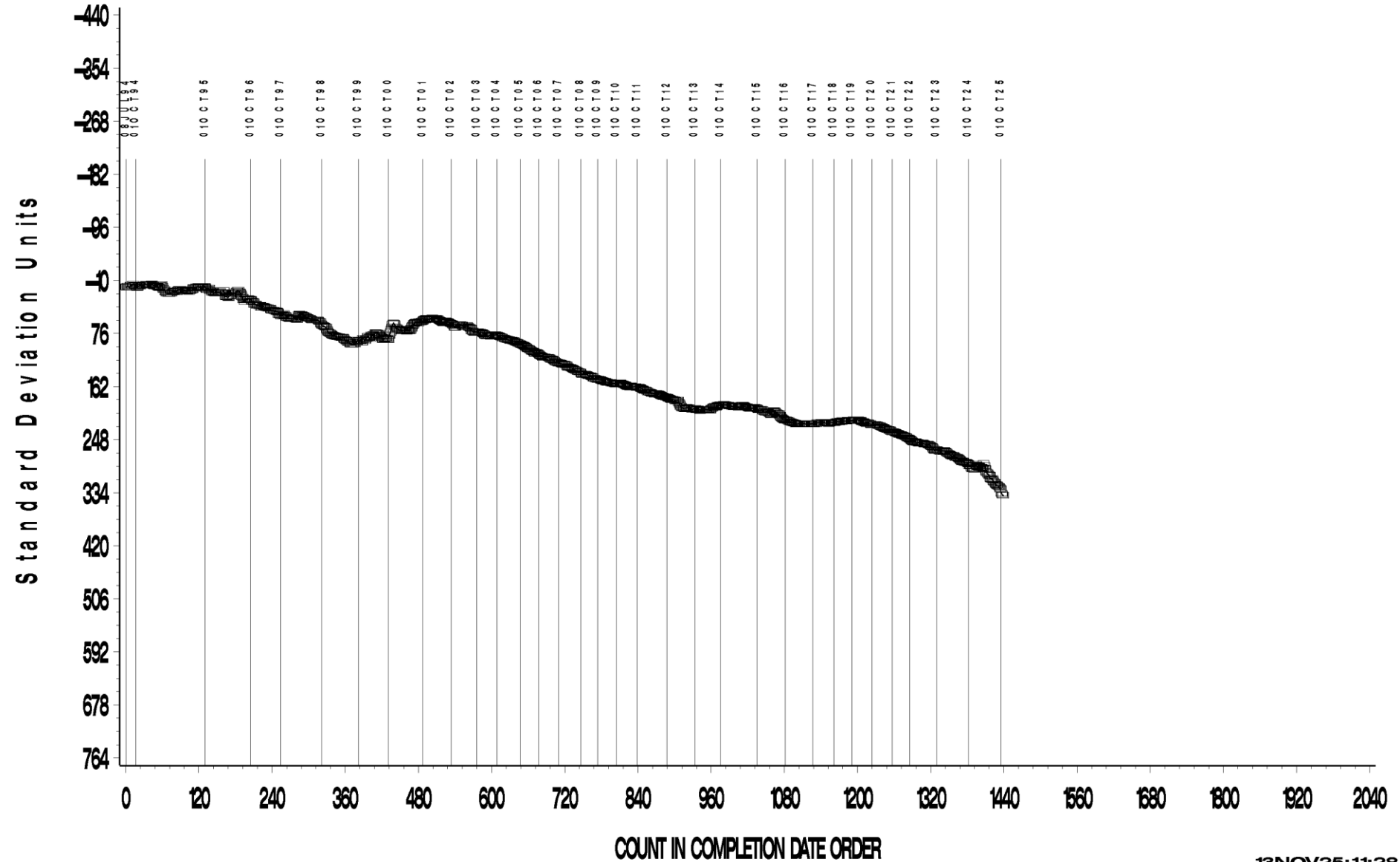
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CUSUM Severity Analysis



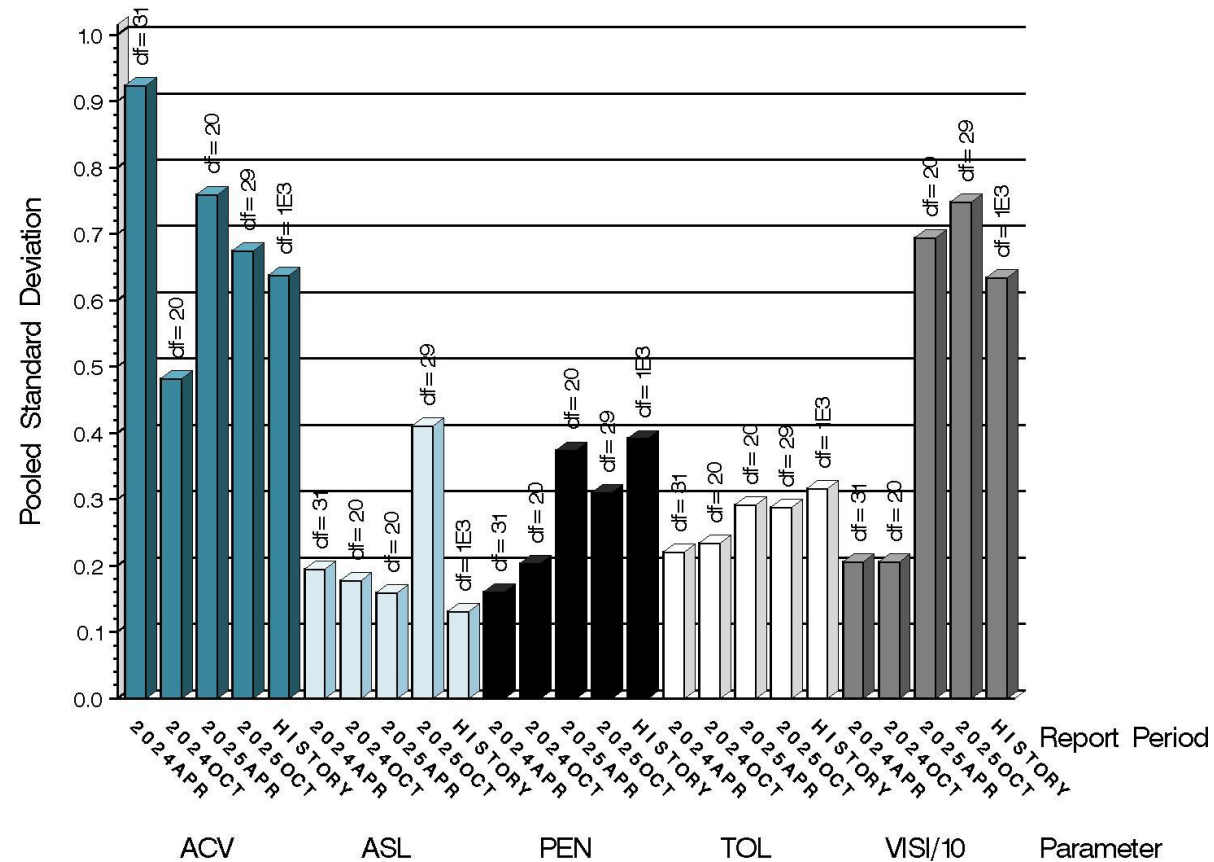
REF. FINAL VISCOSITY INCREASE

CUSUM Severity Analysis



L-60-1 Precision Estimates

TEST PRECISION
POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



due to the vastly larger reported results for VISI in relation to the other parameters, it is shown scaled by 0.1

10:43:58 19NOV2025

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Information Letters



October 2025

Information Letters*

Test	Date	IL	Topic
L-60-1	20250728	25-1	Updated requirements for air flow controller and calibration flow meter

*Available from TMC Website

[Return to Table of Contents](#)

Reference Oil Inventory



Actions, Re-blends, Inventories
and Estimated Life

Reference Oil Re-blends & Replacements

➤ TMC 172, 170-1, & 171-1 (OSCT Testing)

- TMC reference oil 172 is a replacement oil for 169. TMC 170-1 is a reblend of reference oil 170. TMC 171-1 is a reblend of 171. 171-1 has been approved by the OSCT panel for test use. Approval matrixes are underway for 170-1 and 172.

Reference Oil Re-blends & Replacements Cont.

➤ TMC 117 (L42 Testing)

- The panel is searching for a replacement oil for reference oil 117 for L42 reference testing. Interested parties should approach the TMC.

Reference Oil Inventory Estimated Life

Oil	Tests	Year	Blend Quanti	TMC Invento	Estimated Li	Comment
117	L-42	2013	550	202.5	6 years	A request has been put out to the panel for a replacement oil for 117
126	L-33-1	2022	105	44.3	5 years	
155-1	L-33-1, L-37-1, L-60-1, HTCT, OSCT	2010	495	27.14	1.5 years	No longer in test use
155-2	L-33-1, L-37-1, L-60-1, HTCT, OSCT	2020	265	173	5 years	
134-1	L-37-1	2015	220	80	5 years	
152-2	L-37-1	2009	275	19.3	>2 year	
119	L-42	2018	54	7.2	1 year	No longer in test use
119-1	L-42	2024	54	38.5	5 years	Approved by panel Nov 2024
145	L-60-1	2024	48	45.3	5 years	Replacement for 148-1. Approved for test use
169	OSCT	2010	275	102.5	5 years	
170	OSCT	2015	52	18	2 years	
171	OSCT	2017	53	0	0 years	TMC inventory has been depleted.
172	OSCT	2024	103	105	7 years	Replacement for 169. Not yet approved by panel for test use
170-1	OSCT	2024	51.5	49.1	7 years	Reblend of 170. Not yet approved by panel for test use
171-1	OSCT	2024	54	48.4	5 years	Reblend of 171. Approved for test use

LTMS Deviations

»» April 1, 2025 – September 30, 2025

LTMS Deviations

- No LTMS Deviations this period

TMC Laboratory Visits

➤➤ April 1, 2025 – September 30, 2025

TMC Lab Visits

Test	Number of Labs Visited
OSCT	0
L-33-1	0
L-37-1	0
L-42	0
L-60-1	0

No lab visits conducted during this reporting period.

Test Area Timelines

➤➤ April 1, 2025 – September 30, 2025

Test Area Timeline Additions*

Test	Date	Topic	IL
L-60-1	20250728	Updated requirements for air flow controller and calibration flow meter	25-1
L-33-1	20250922	Fields added to L-33-1 report form for oven fan speed percent deviation calculations	L331-20250829
L-37-1	20250818	2024 uncoated hardware batch approved for test use	TMC Memo 25-018
L-42	20250918	P2AD8 hardware batch approved for test use	TMC Memo 25-021
OSCT	20250911	Reference oil 171-1 introduction	TMC Memo 25-019

Rating Workshop Data

➤➤ July 2025 Gear Rating Workshop

Rating Workshop Data

- ▶ Gear rating workshop data can be found on the TMC website:
 - https://www.astmtmc.org/ftp/refdata/gear/rating_workshop_data/

Miscellaneous Information

- ▶ Available on TMC Website:
 - 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](#)

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