



A Program of ASTM International

# ***Test Monitoring Center***

<https://www.astmtmc.org>

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

April 2026

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# Gear Oil Testing Executive Summary

- ▶ Several reference oils are in the process of being updated to replace older reference oils
  - Approval matrix under review by panel
- ▶ Request to panel members to provide reference oil replacement for 117,134-1 and 152-2

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# 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 completed for reference oils 172 and 170-1. Currently under review by Surveillance Panel.

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# Calibrated Labs and Stands\*

Test	Labs	Stands
L-33-1	4	9
L-37-1	4	4
L-42	3	3
L-60-1	4	10
OSCT	2	4
HTCT	0	0

\*As of 03/31/2026

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# L-33-1

➤➤ April 2026

# L-33-1 Test Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	13
Unacceptable Calibration Test	OC	2
Aborted Calibration Test	XC	2
Acceptable Hardware Approval Run	NI	4
Unacceptable Hardware Approval Run	MI	2
<b>Total</b>		<b>23</b>

# L-33-1 Failed Tests

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild Rust)	OC	0
Unacceptable Calibration Test (Precision)	OC	1
Unacceptable Calibration Test (Severe Rust)	OC	1
<b>Total</b>		<b>2</b>

# L-33-1 Lost Tests

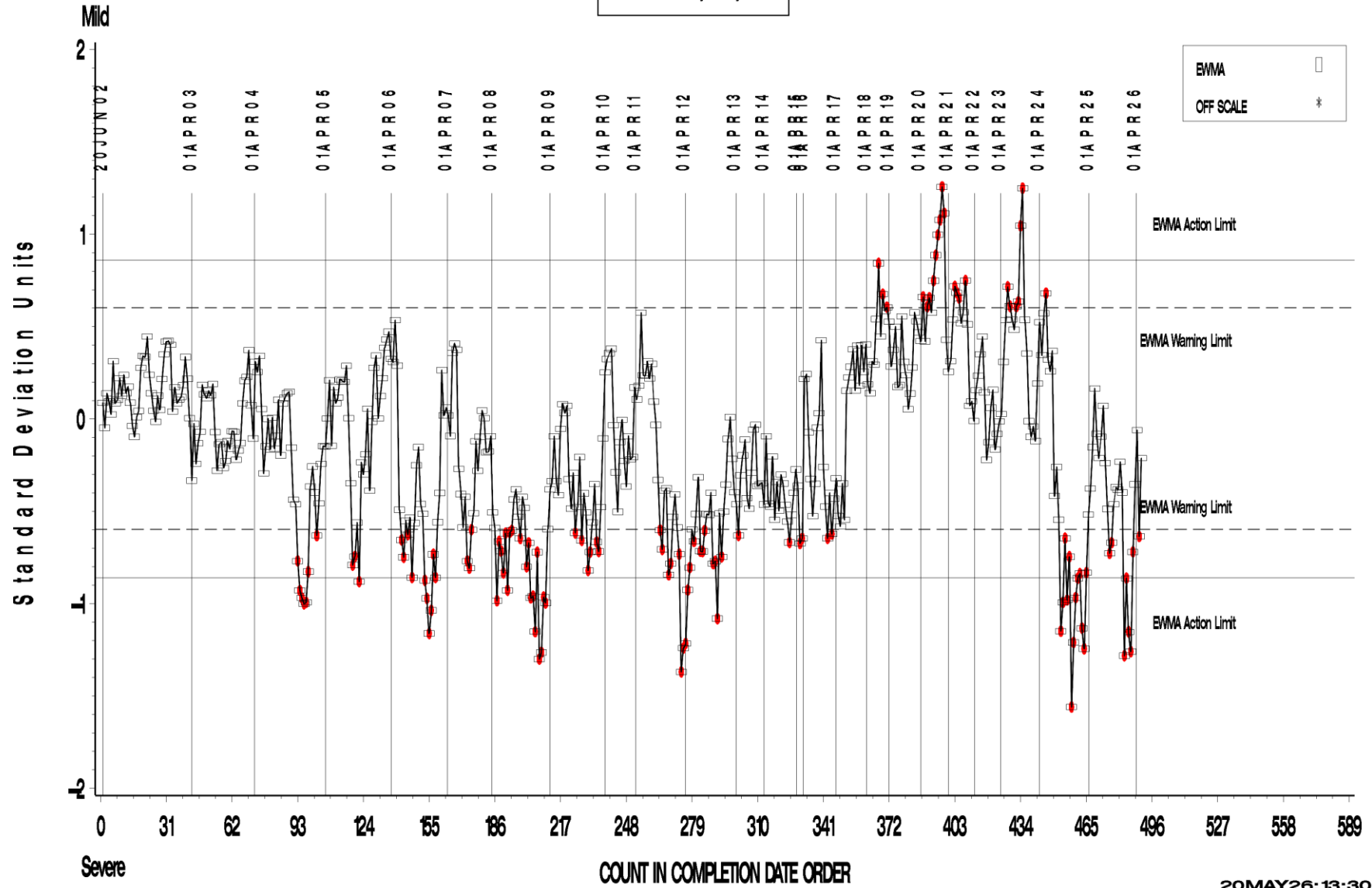
Test Status	Validity Code	#
Cooling Fan Failure	XC	1
PLC Error	XC	1
Oil temp out of spec	MI	1
Break and Turn Torque out of spec	MI	1
<b>Total</b>		<b>4</b>

# L-33-1 Test Severity

- Rust industry severity had multiple test outside of the action limit in the severe direction this reporting period but finished within limits.
- Rust industry precision finished outside the action limit.

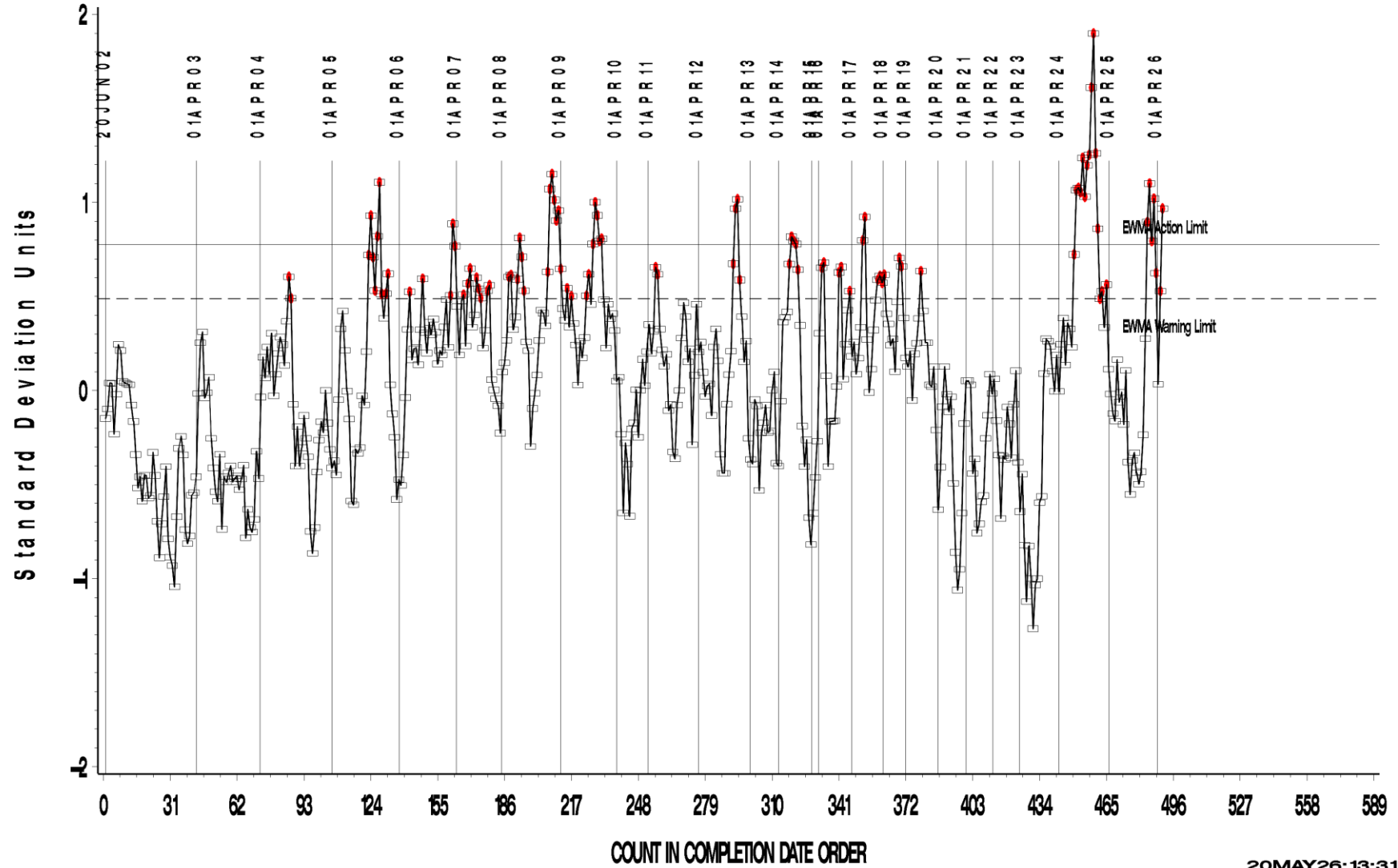
FINAL RUST RESULT

LTMS Severity Analysis



FINAL RUST RESULT

LTMS Precision Analysis

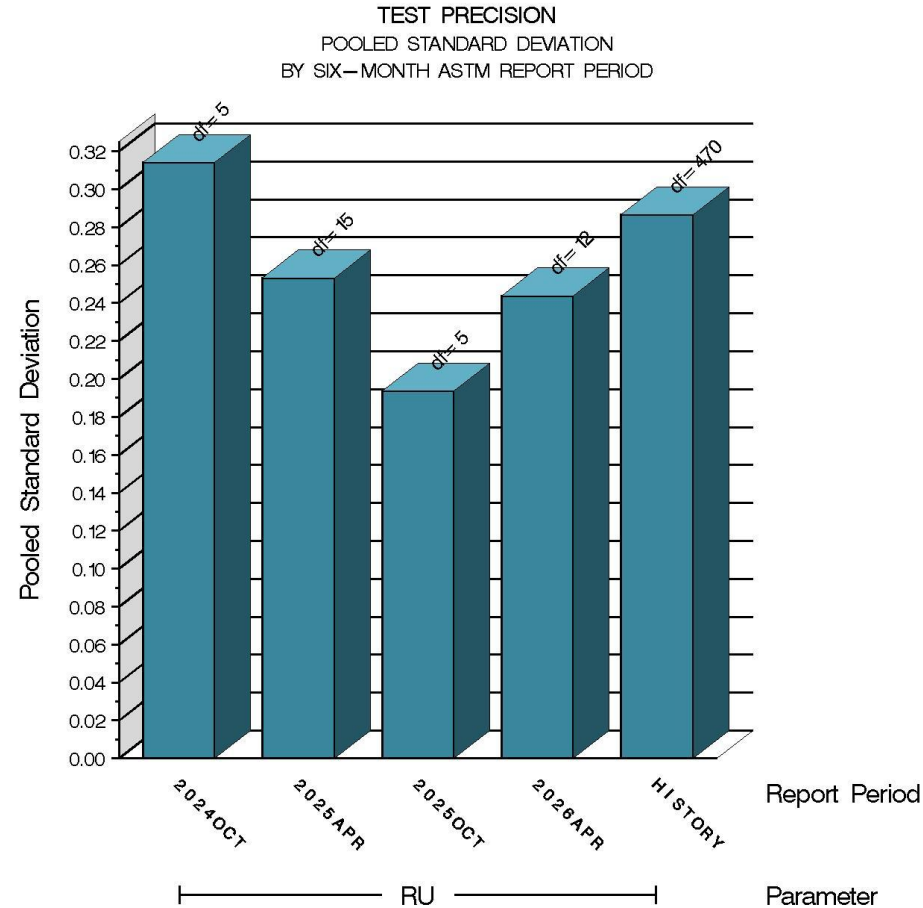


### FINAL RUST RESULT

CUSUM Severity Analysis



# L-33-1 Precision Estimates



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# L-37-1

➤➤ April 2026

# L-37-1 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	9
Acceptable Discrimination Run	AS	1
Acceptable Information Run	NI	6
Aborted Information Run	XI	3
<b>Total</b>		<b>19</b>

# L-37-1 Failed Tests

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

# L-37-1 Lost Tests

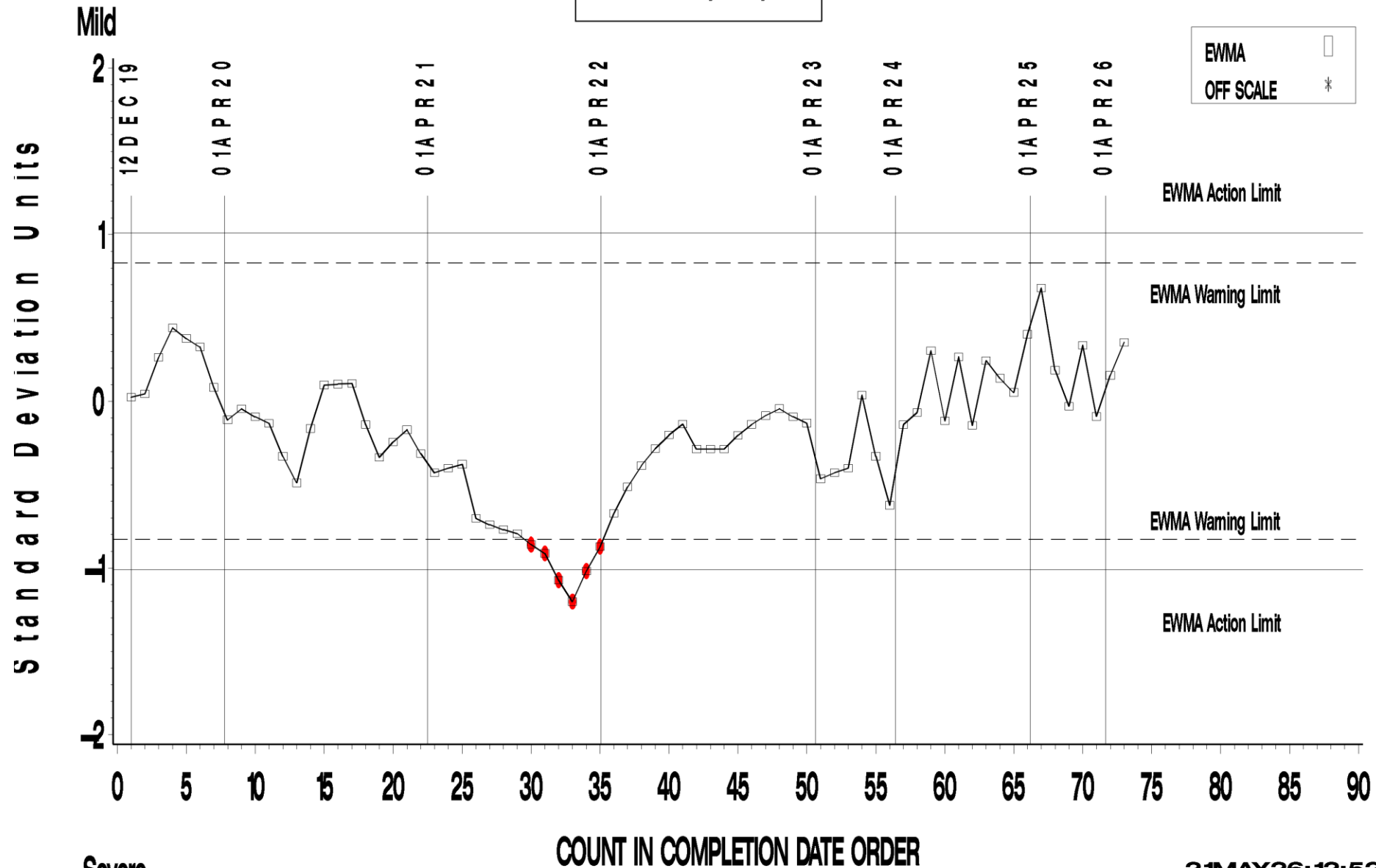
Test Status	Validity Code	#
Aborted due to broken teeth	XI	1
Aborted due to solenoid failure	XI	1
Aborted due to high vibration	XI	1
<b>Total</b>		<b>3</b>

# L-37-1 Test Severity Summary

- Uncoated Hardware:
  - All parameters remained within the limits this period for both precision and severity
- Coated Hardware:
  - Wear precision had 2 test outside of the action limit but finished within the limits.
  - All other parameters remained within the limits this period for both precision and severity.

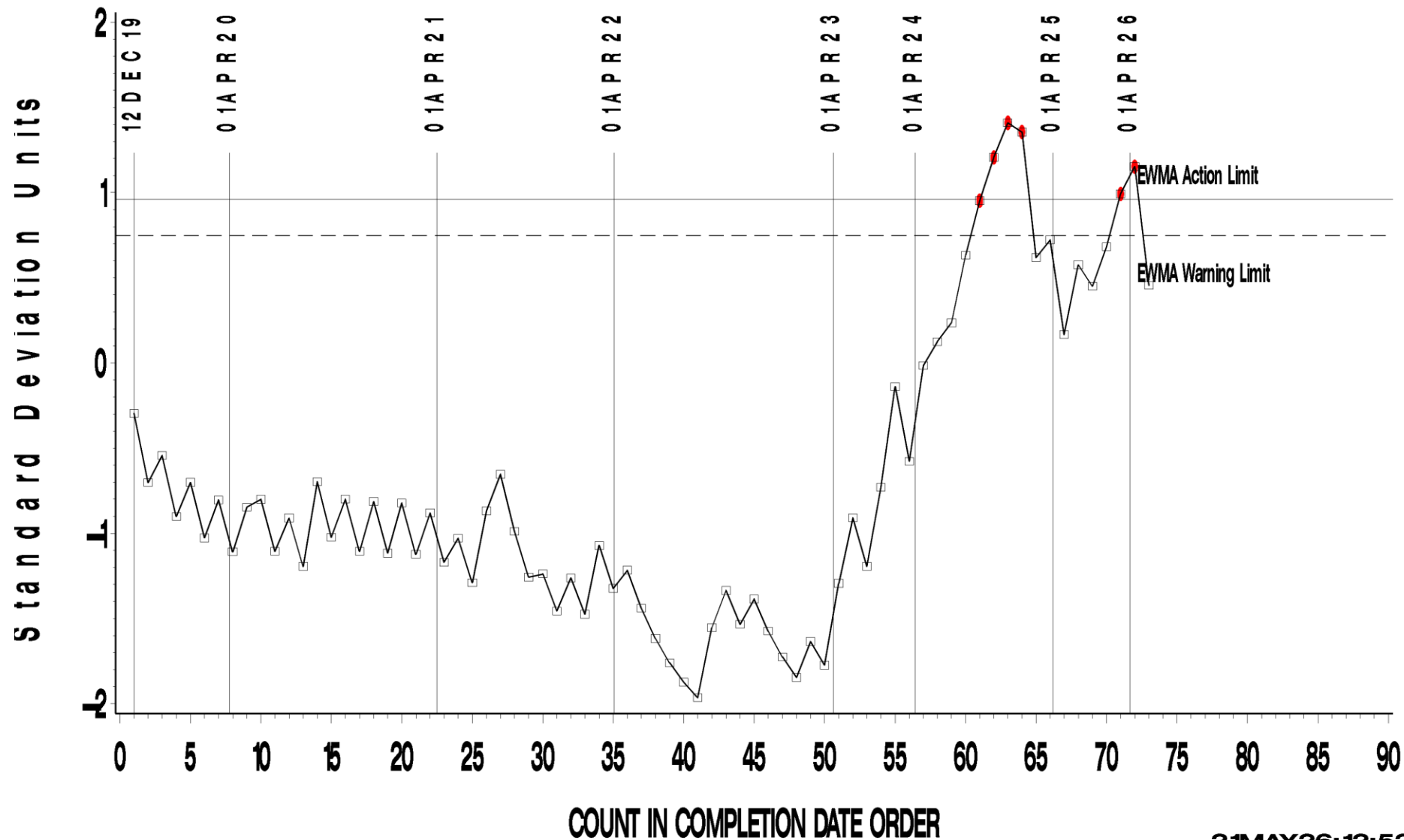
### FINAL PINION GEAR WEAR

LTMS Severity Analysis



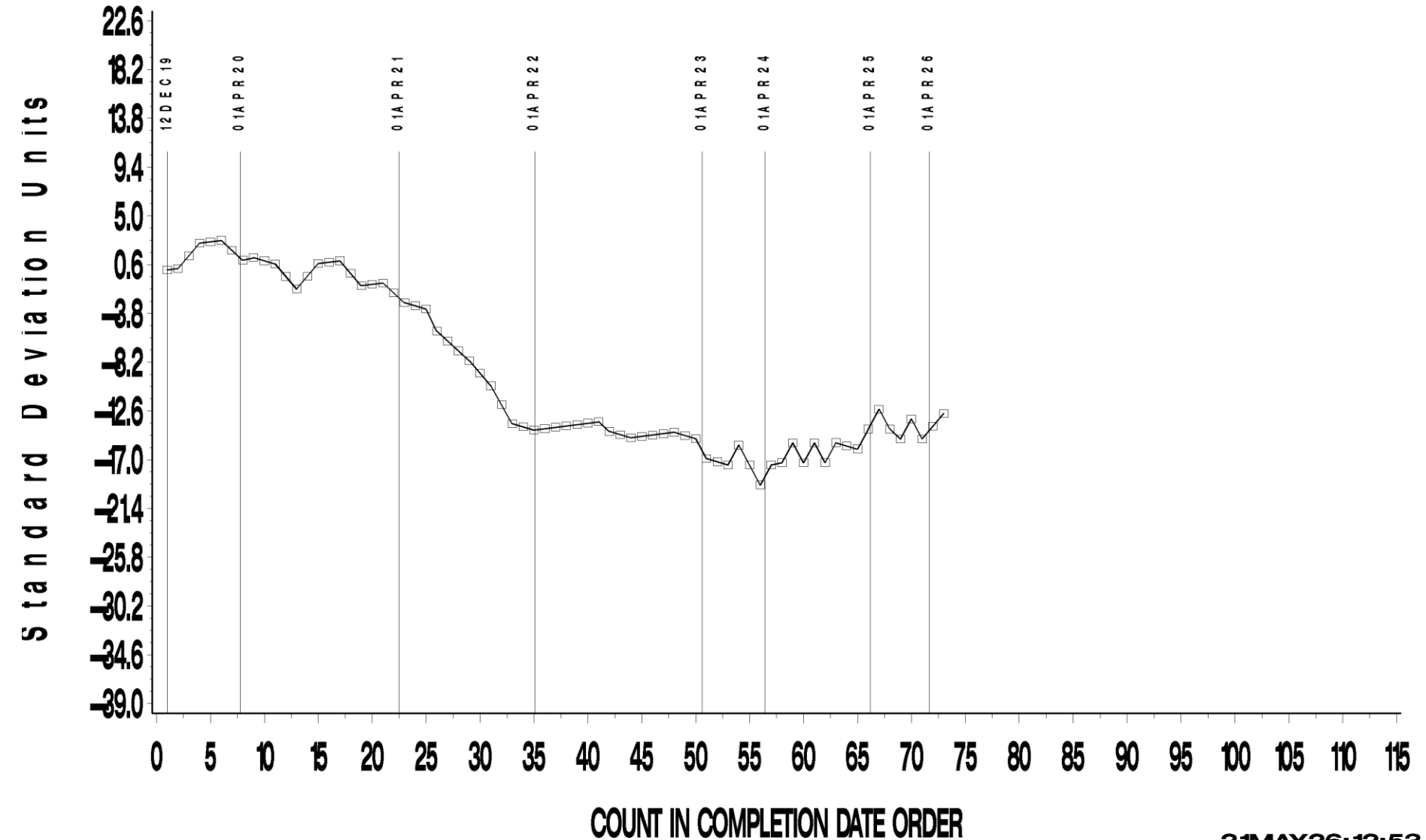
### FINAL PINION GEAR WEAR

LTMS Precision Analysis



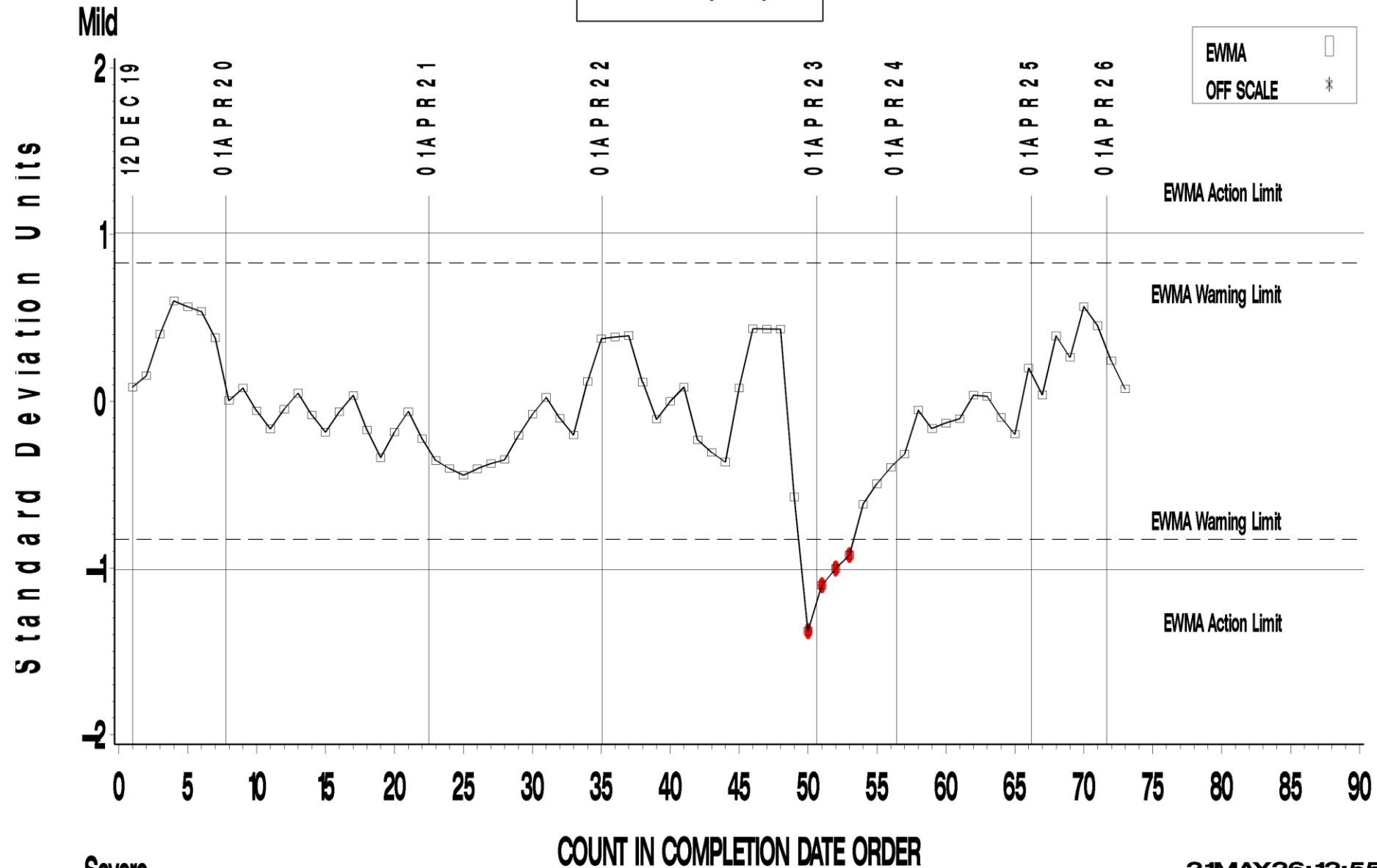
### FINAL PINION GEAR WEAR

CUSUM Severity Analysis



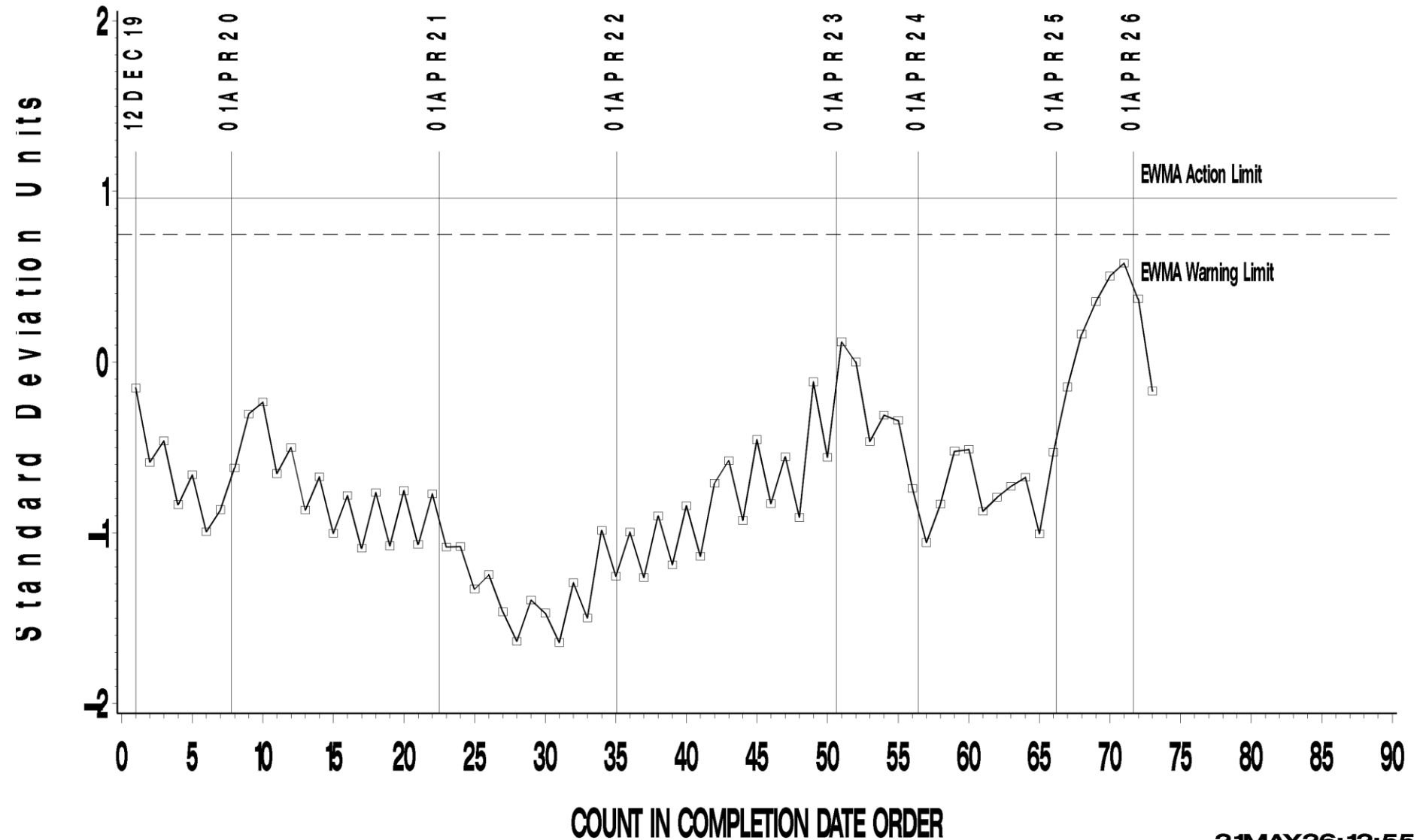
### FINAL PINION GEAR RIPPLING

LTMS Severity Analysis



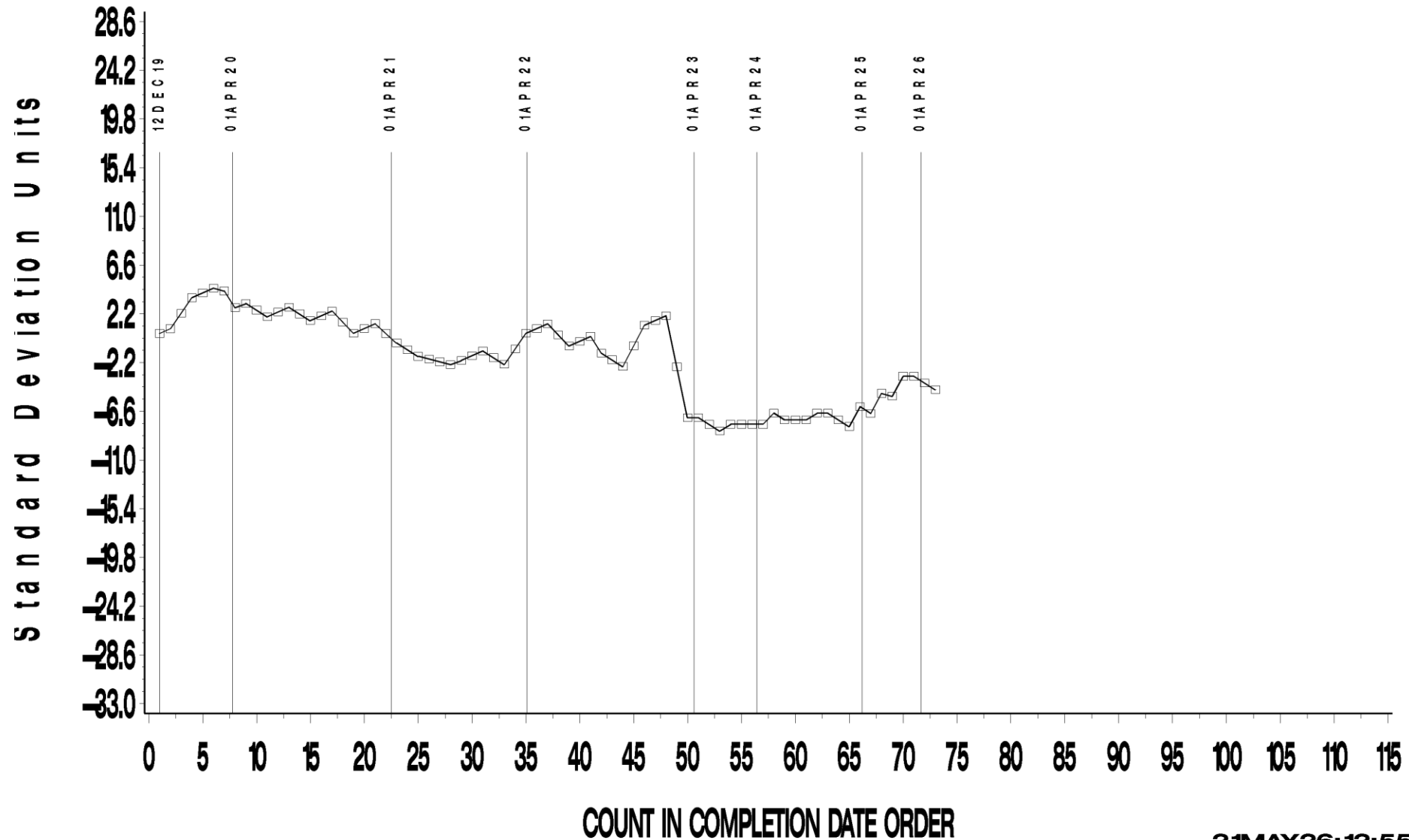
### FINAL PINION GEAR RIPPLING

LTMS Precision Analysis



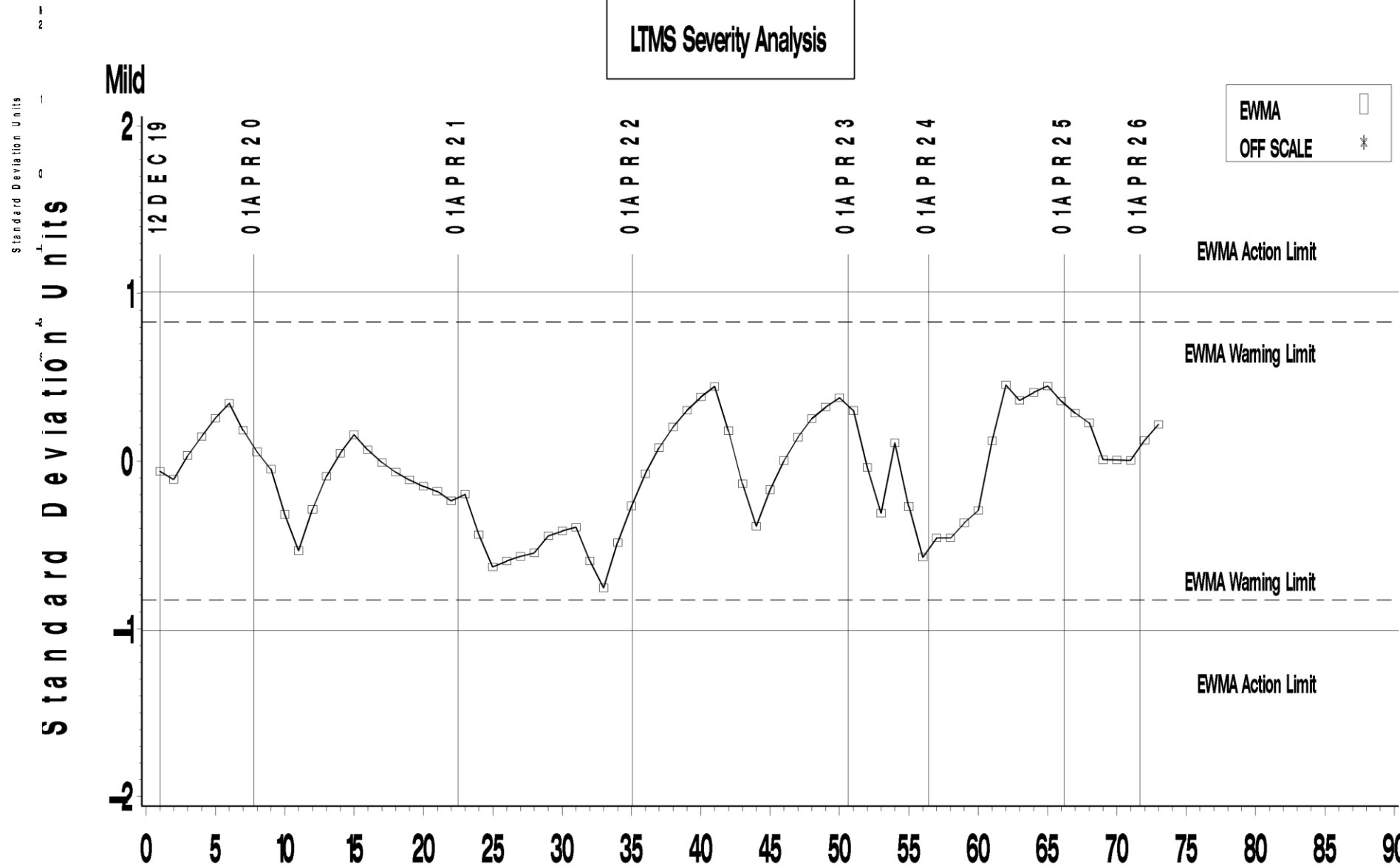
# FINAL PINION GEAR RIPPLING

CUSUM Severity Analysis



### FINAL PINION GEAR RIDGING

LTMS Severity Analysis

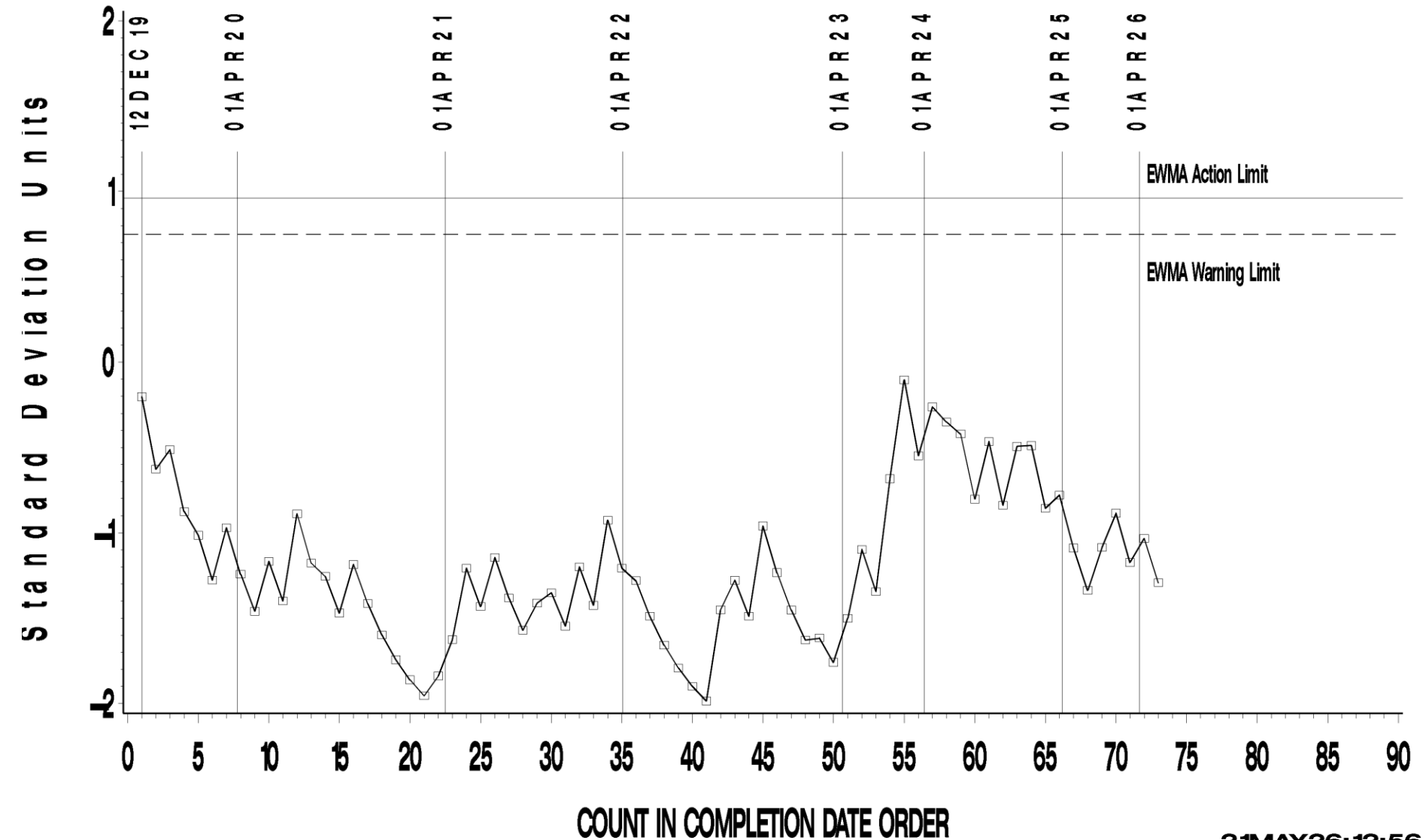


Severe

COUNT IN COMPLETION DATE ORDER

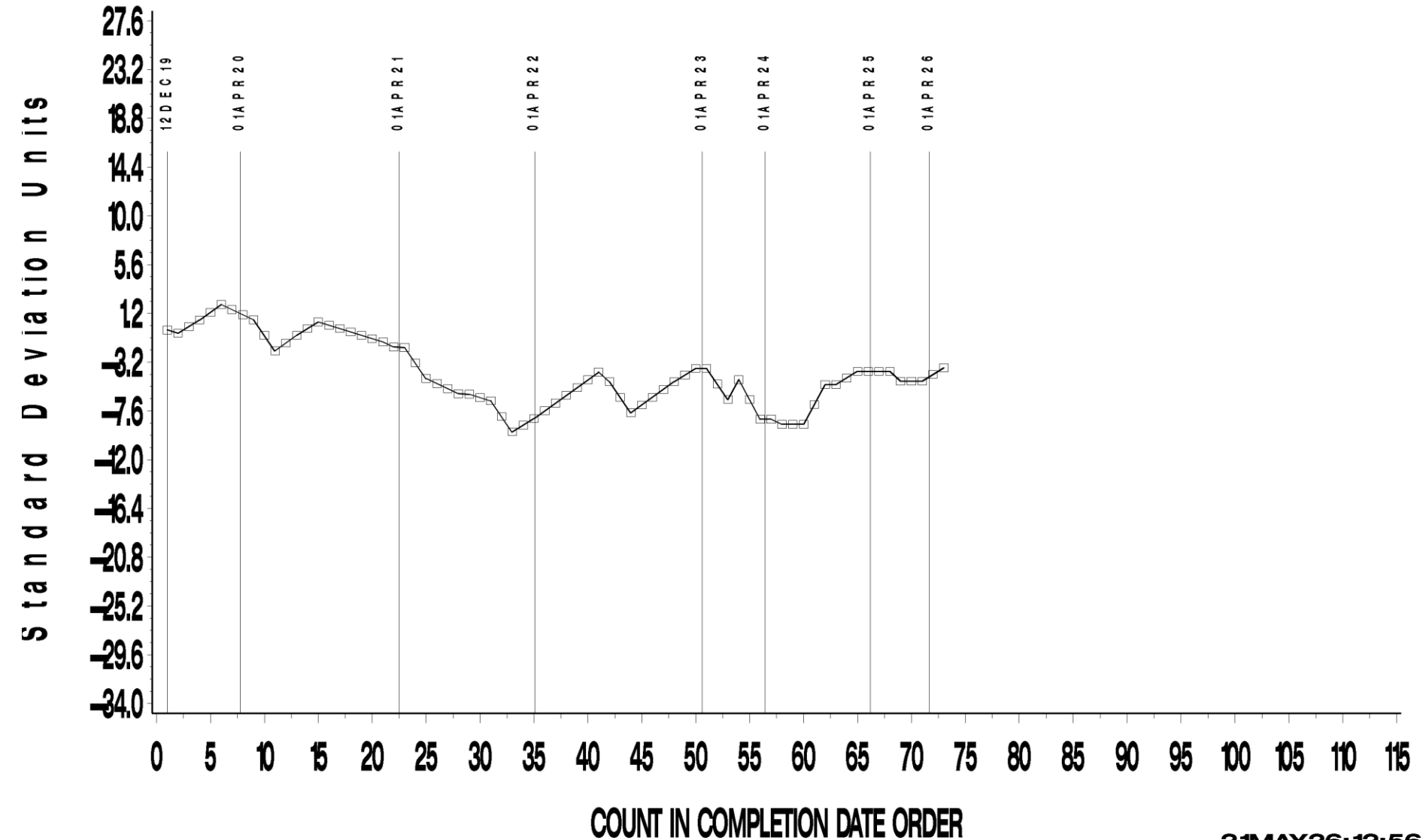
### FINAL PINION GEAR RIDGING

LTMS Precision Analysis

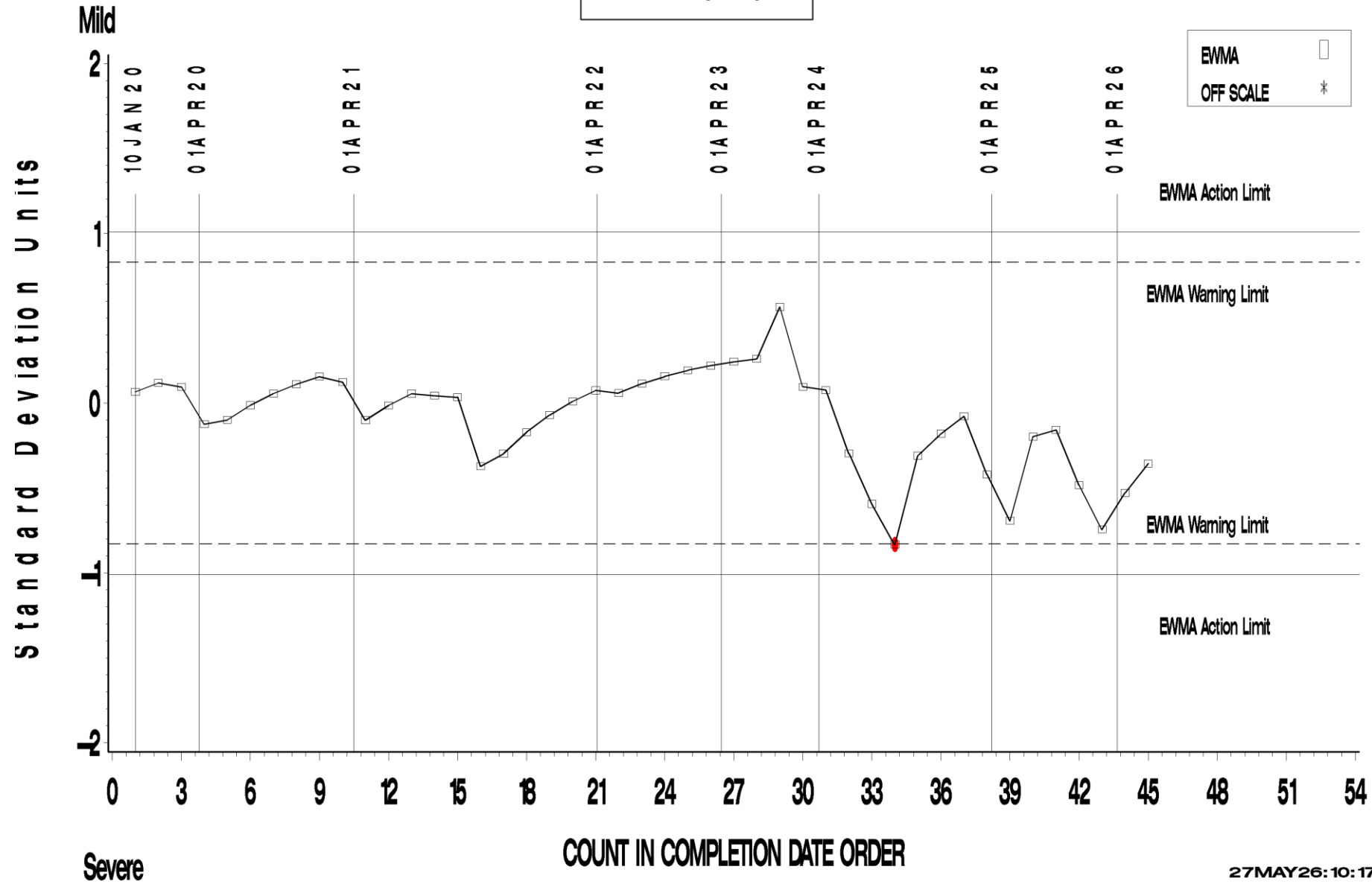


### FINAL PINION GEAR RIDGING

CUSUM Severity Analysis



LTMS Severity Analysis

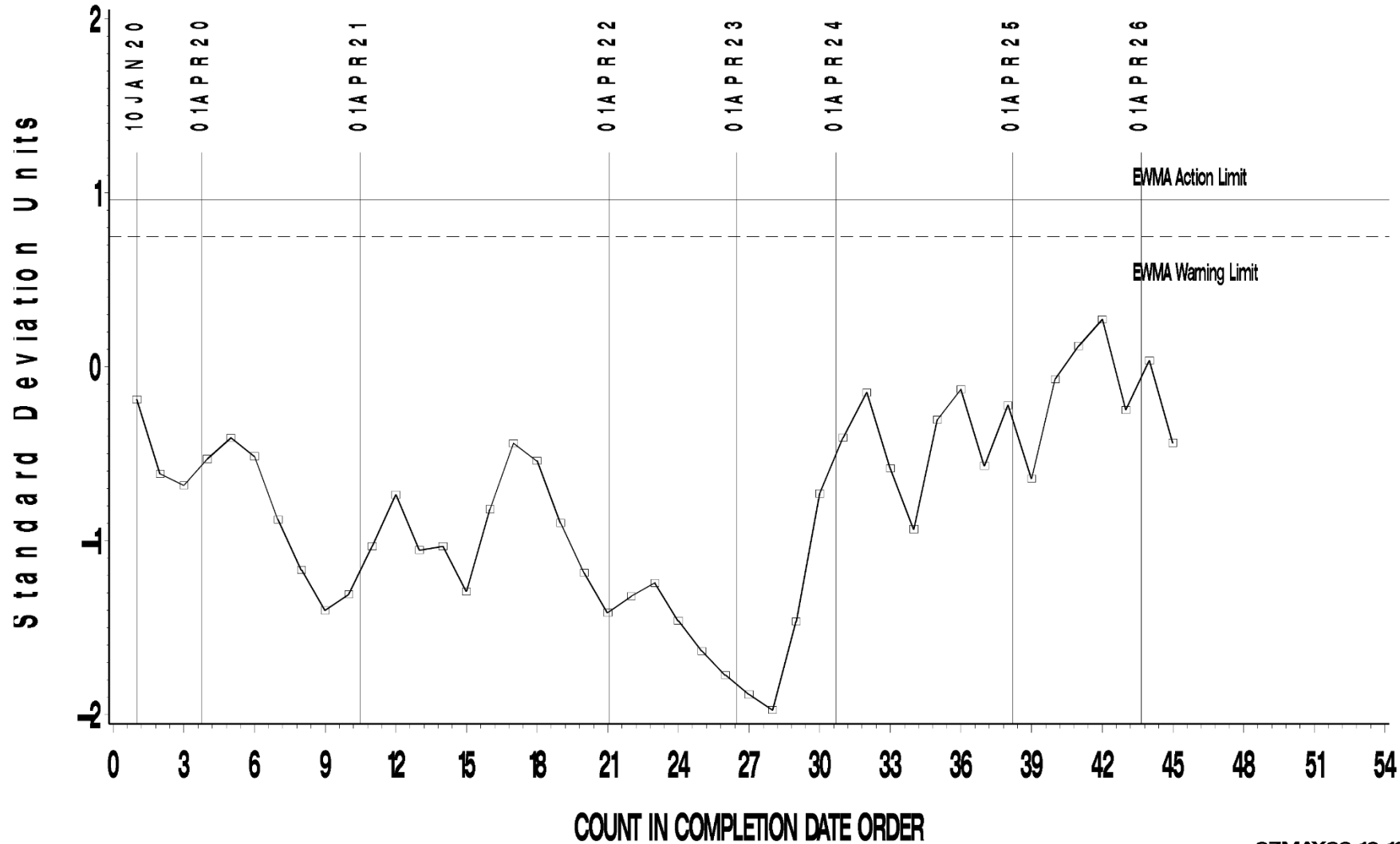


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

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



LTMS Precision Analysis

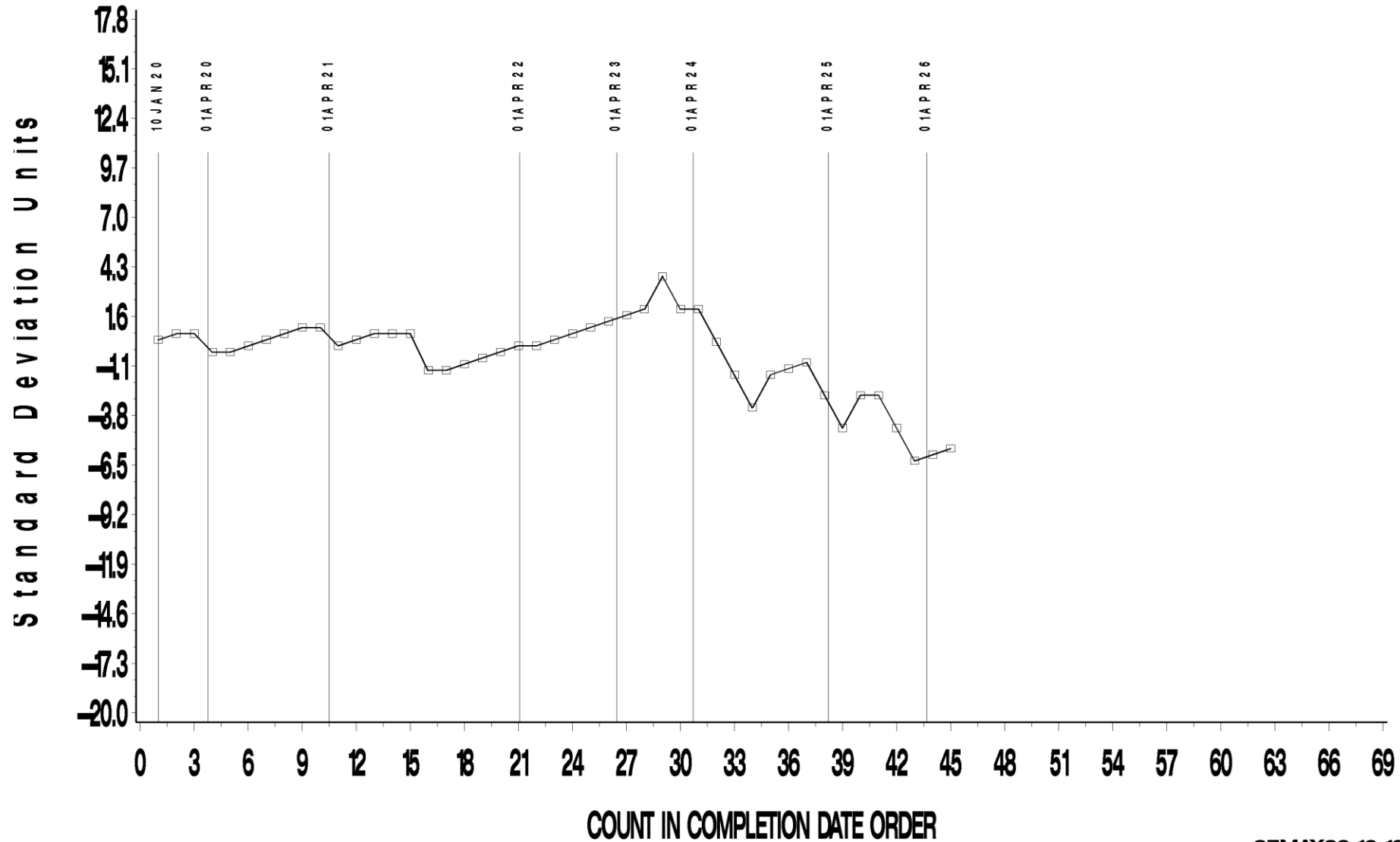


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

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IND not in ('155 -1', '155 -2')  
FINAL PINION GEAR PITTING/SPALLING



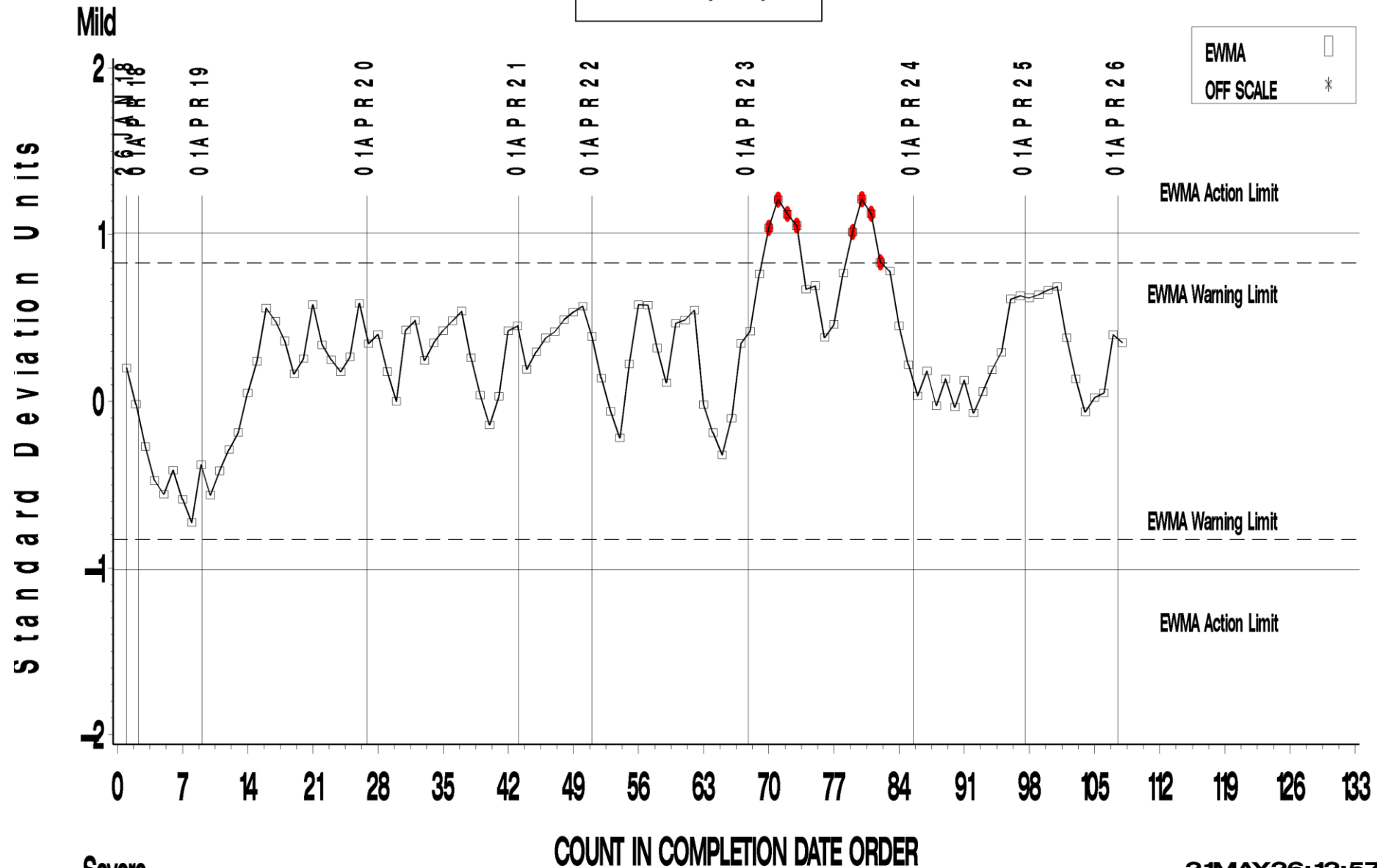
CUSUM Severity Analysis



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

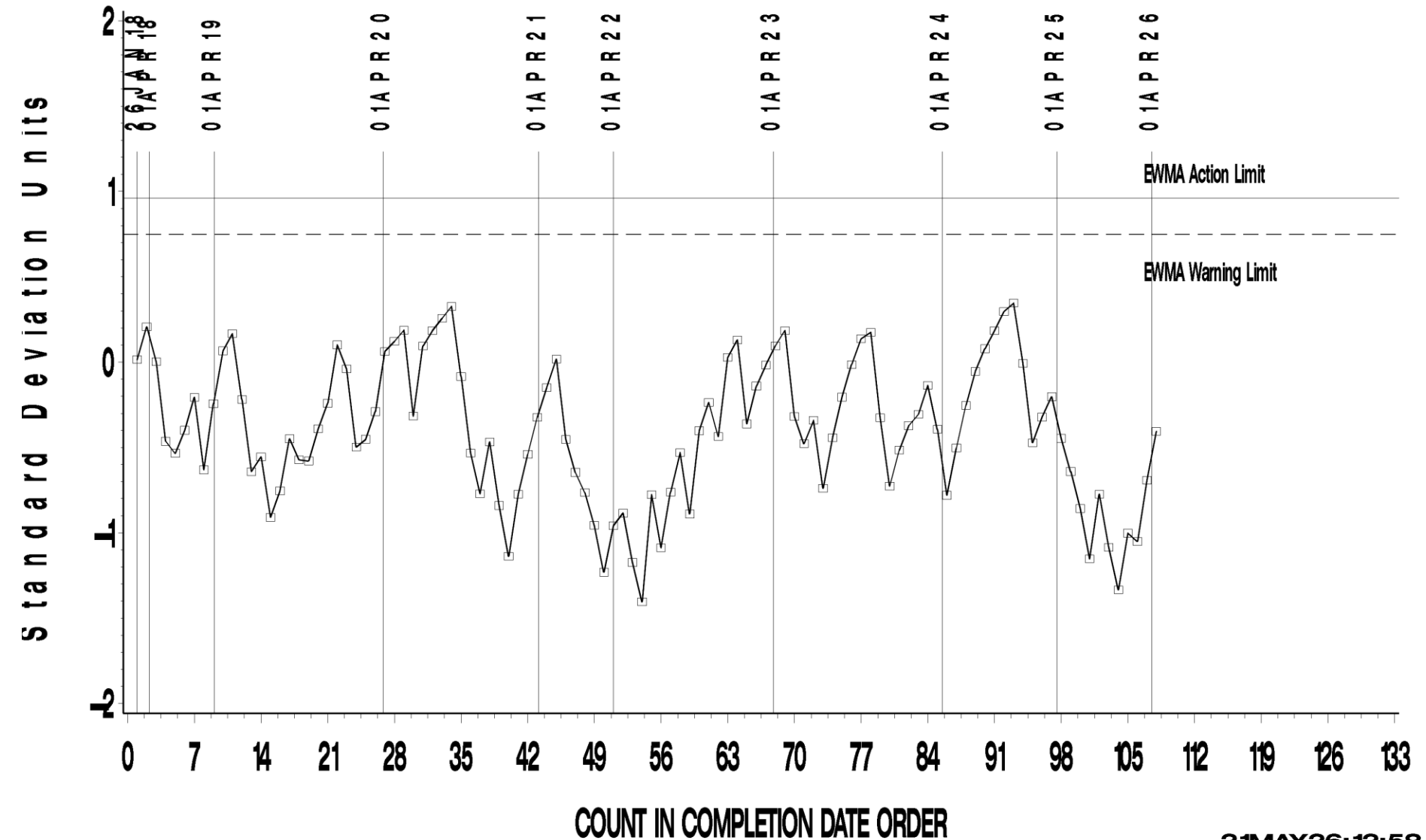
### FINAL PINION GEAR WEAR

LTMS Severity Analysis



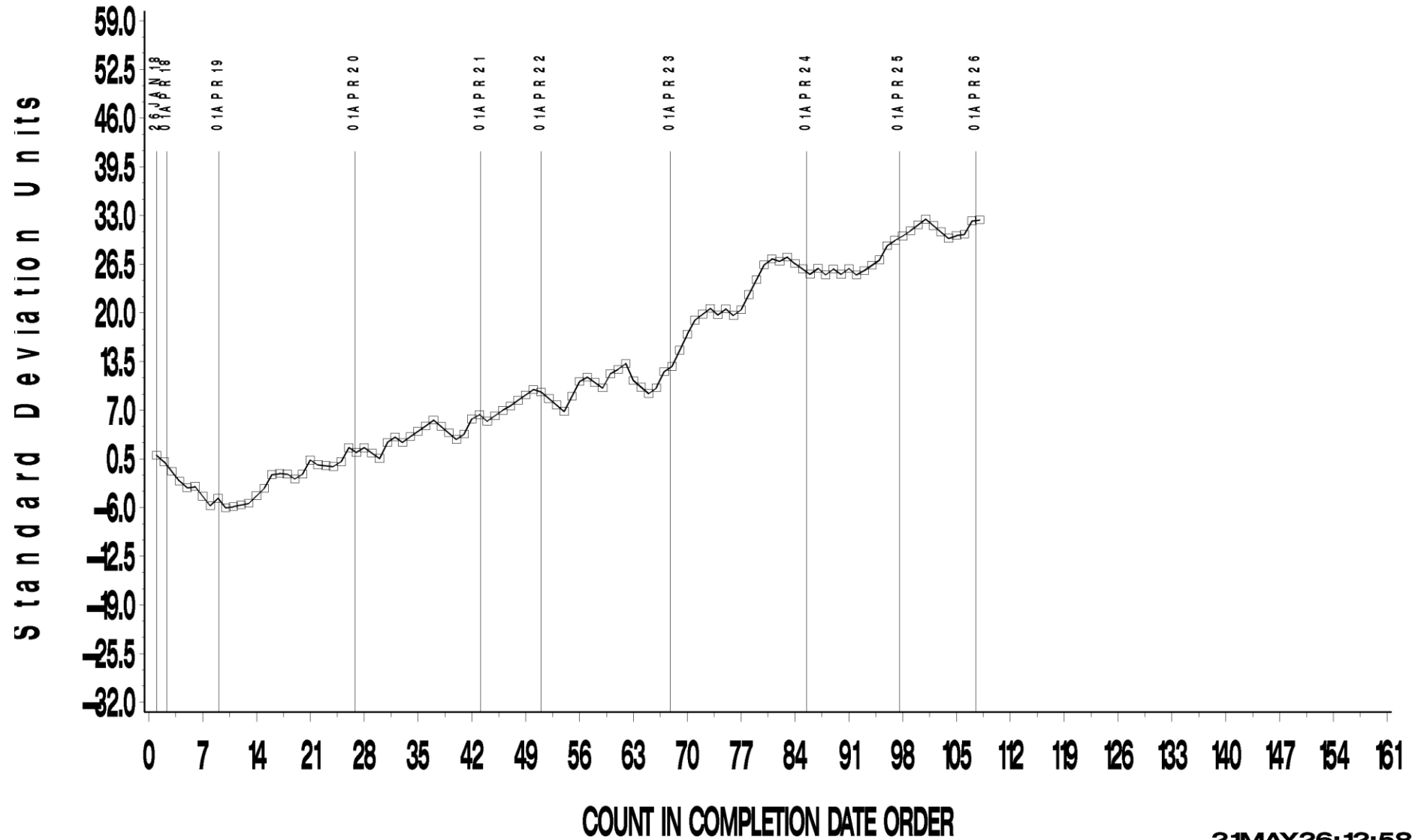
### FINAL PINION GEAR WEAR

LTMS Precision Analysis



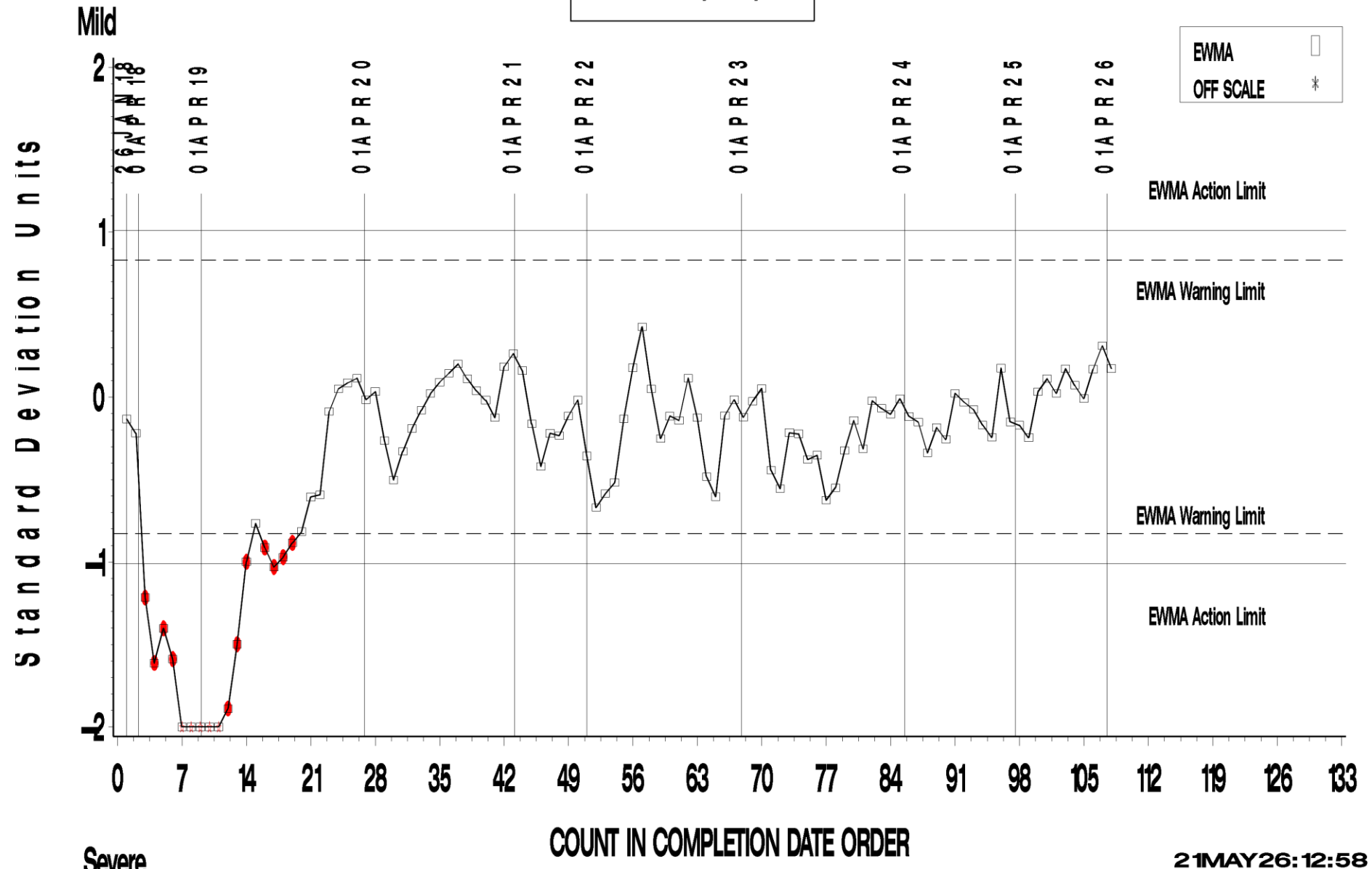
# FINAL PINION GEAR WEAR

CUSUM Severity Analysis



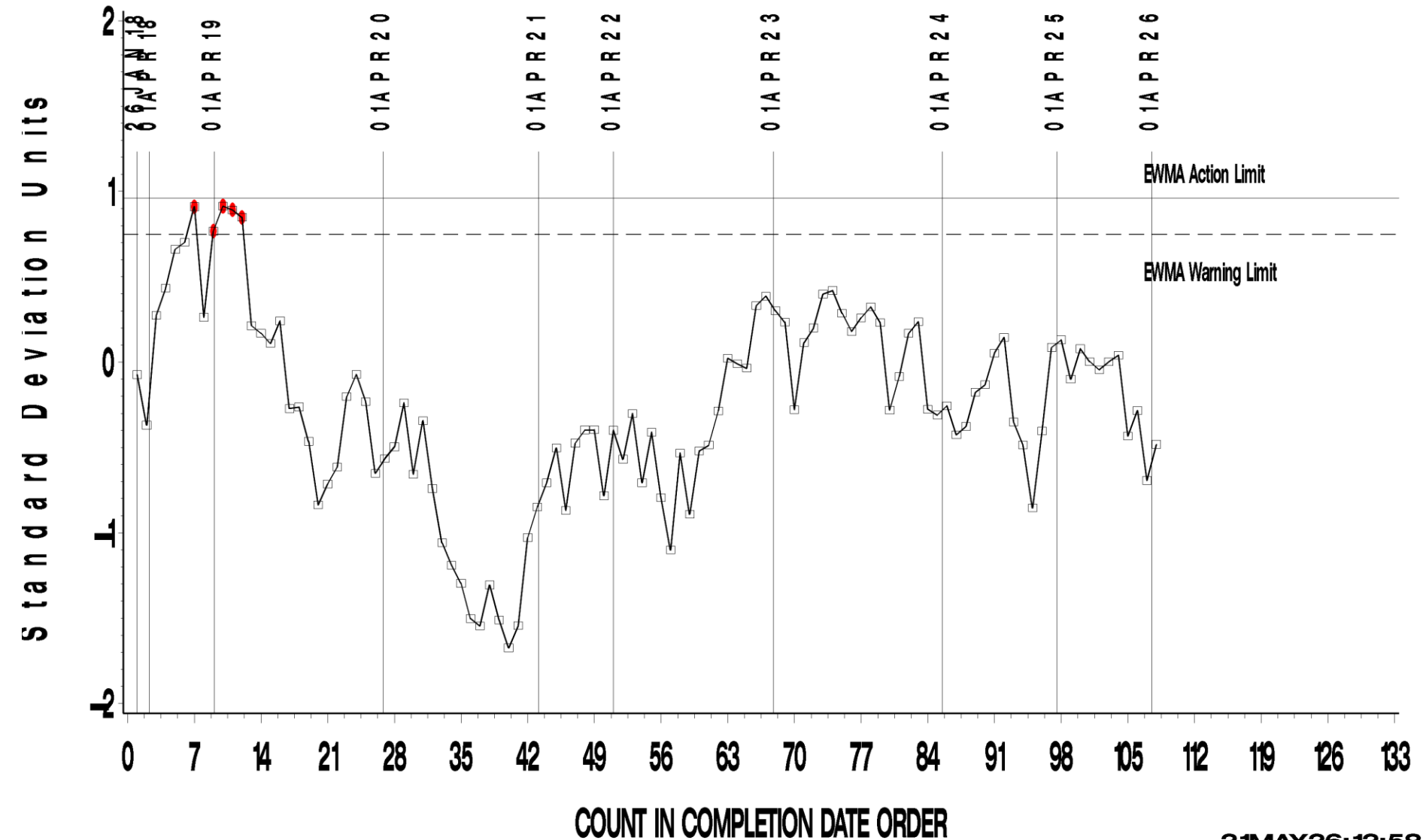
### FINAL PINION GEAR RIPPLING

LTMS Severity Analysis



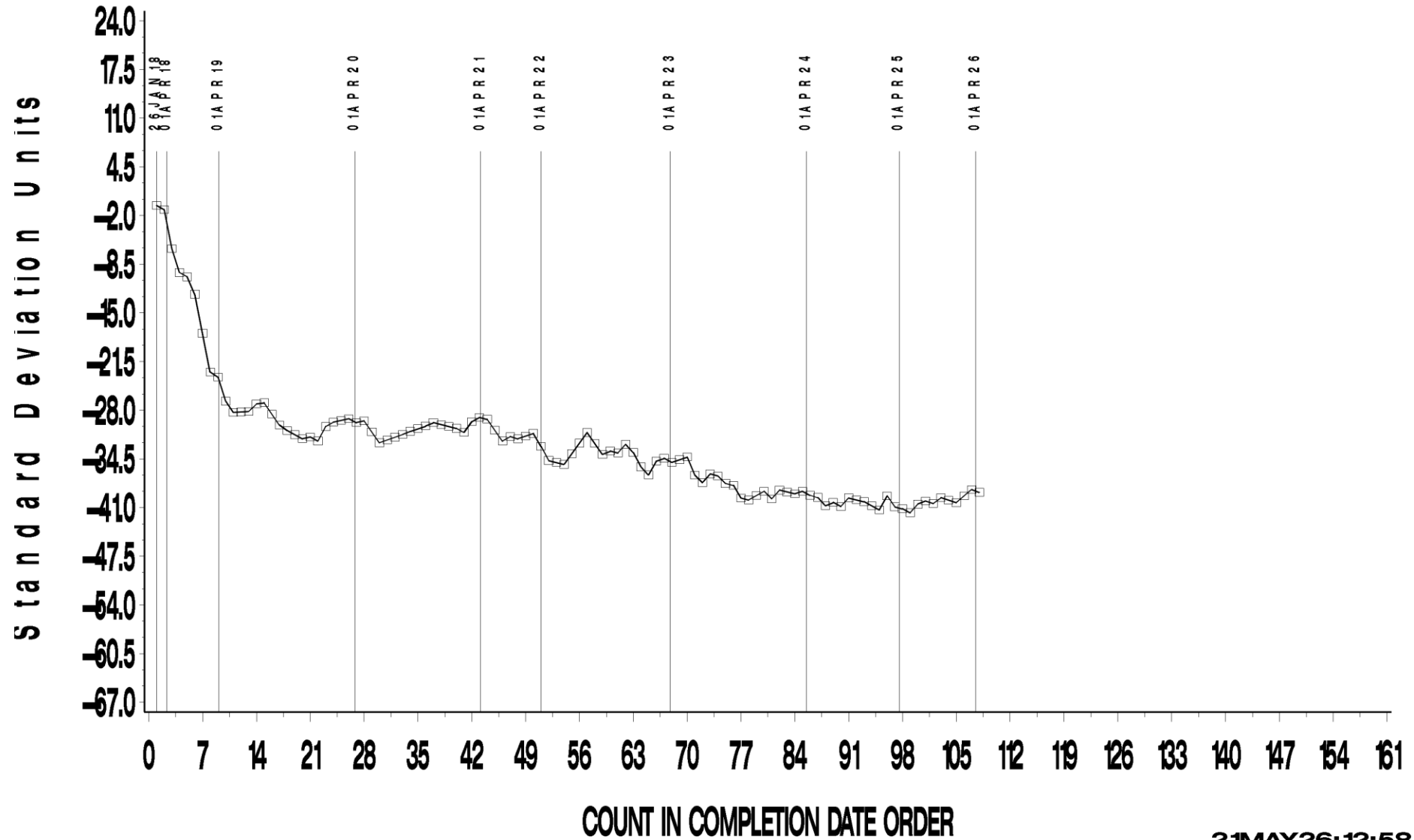
### FINAL PINION GEAR RIPPLING

LTMS Precision Analysis



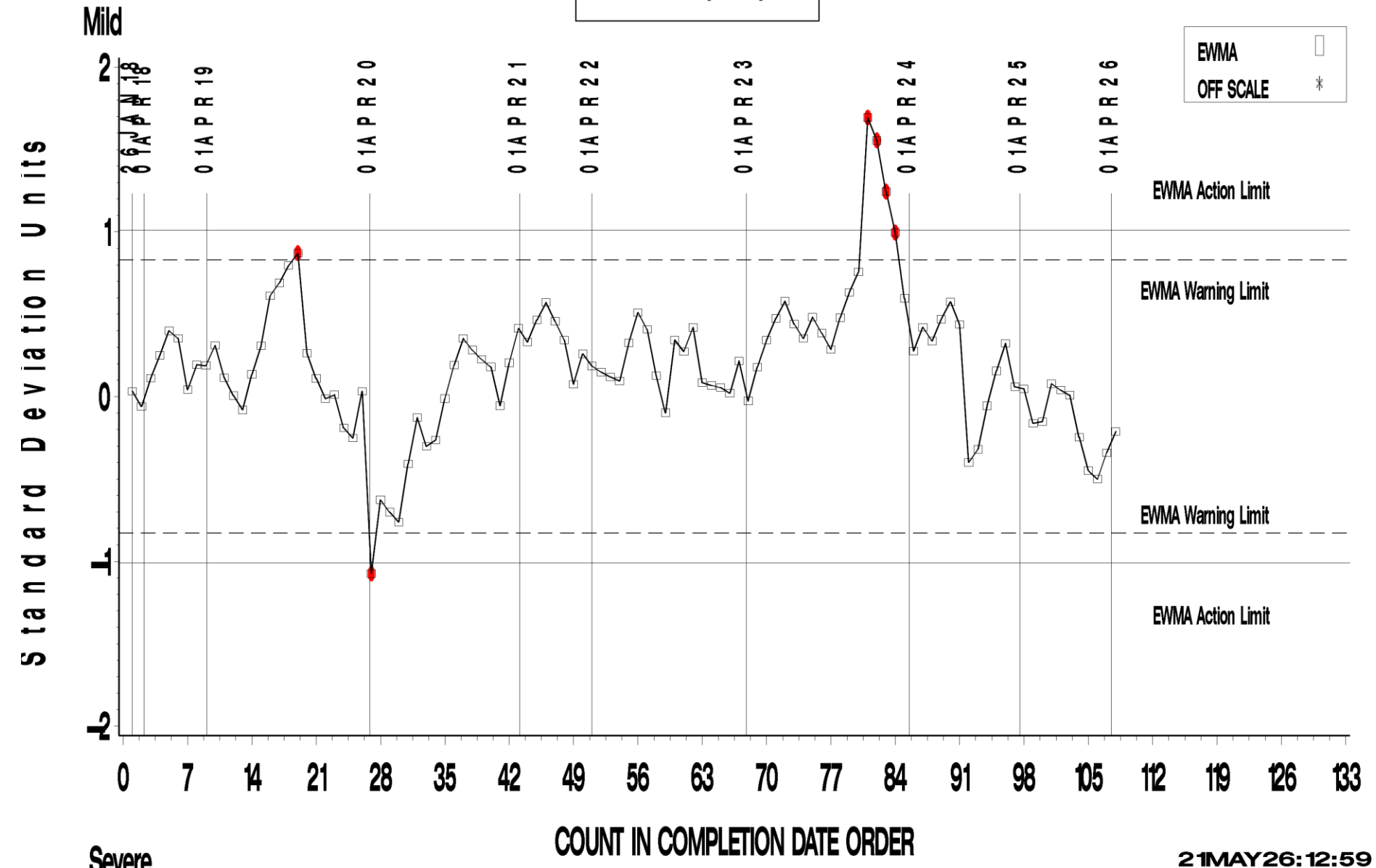
# FINAL PINION GEAR RIPPLING

CUSUM Severity Analysis



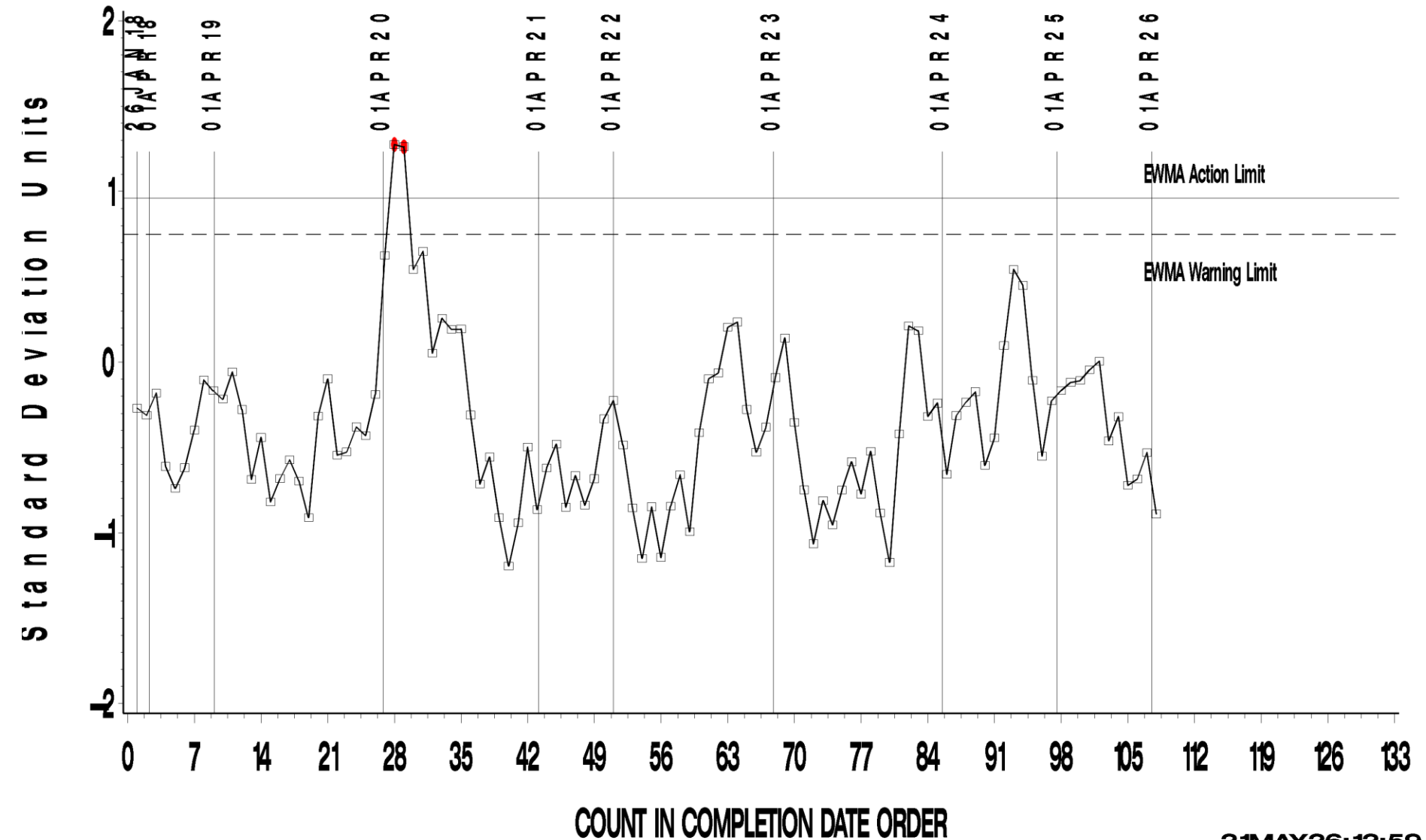
### FINAL PINION GEAR RIDGING

LTMS Severity Analysis



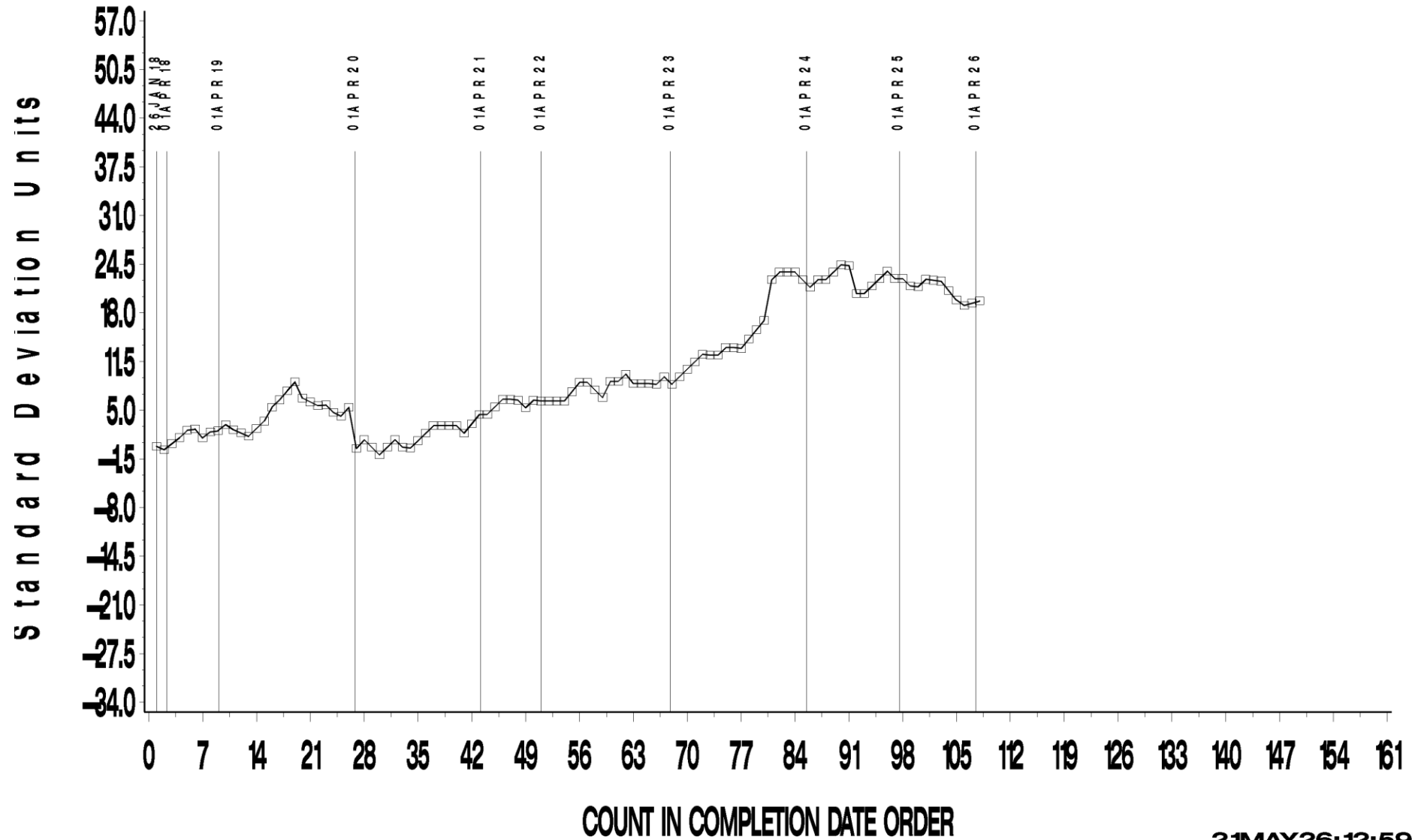
### FINAL PINION GEAR RIDGING

LTMS Precision Analysis



# FINAL PINION GEAR RIDGING

CUSUM Severity Analysis



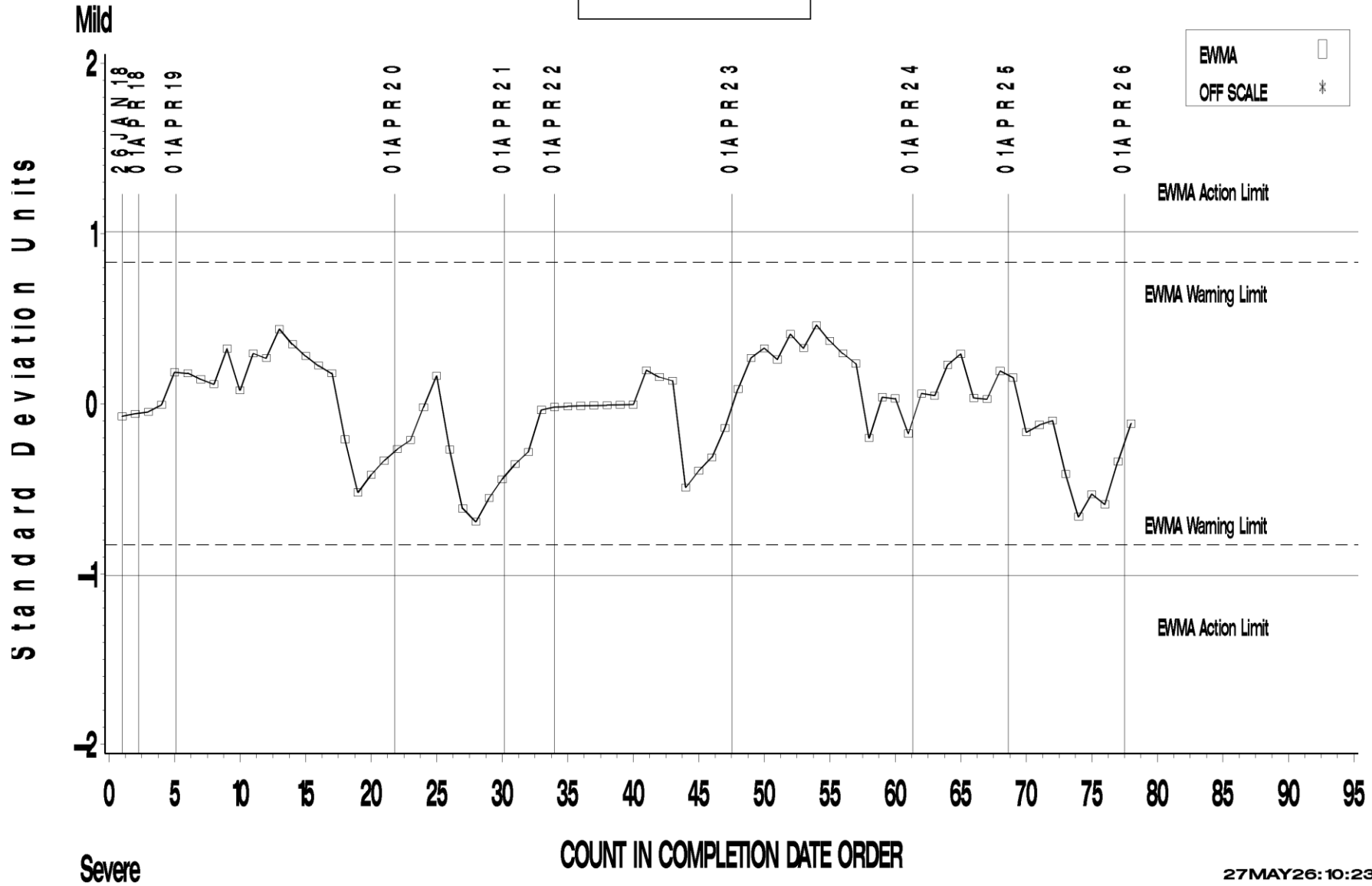
L-37-1 UNCOATED INDUSTRY OPERATIONALLY VALID DATA

IND not in ('155-1', '155-2')

FINAL PINION GEAR PITTING/SPALLING



LTMS Severity Analysis

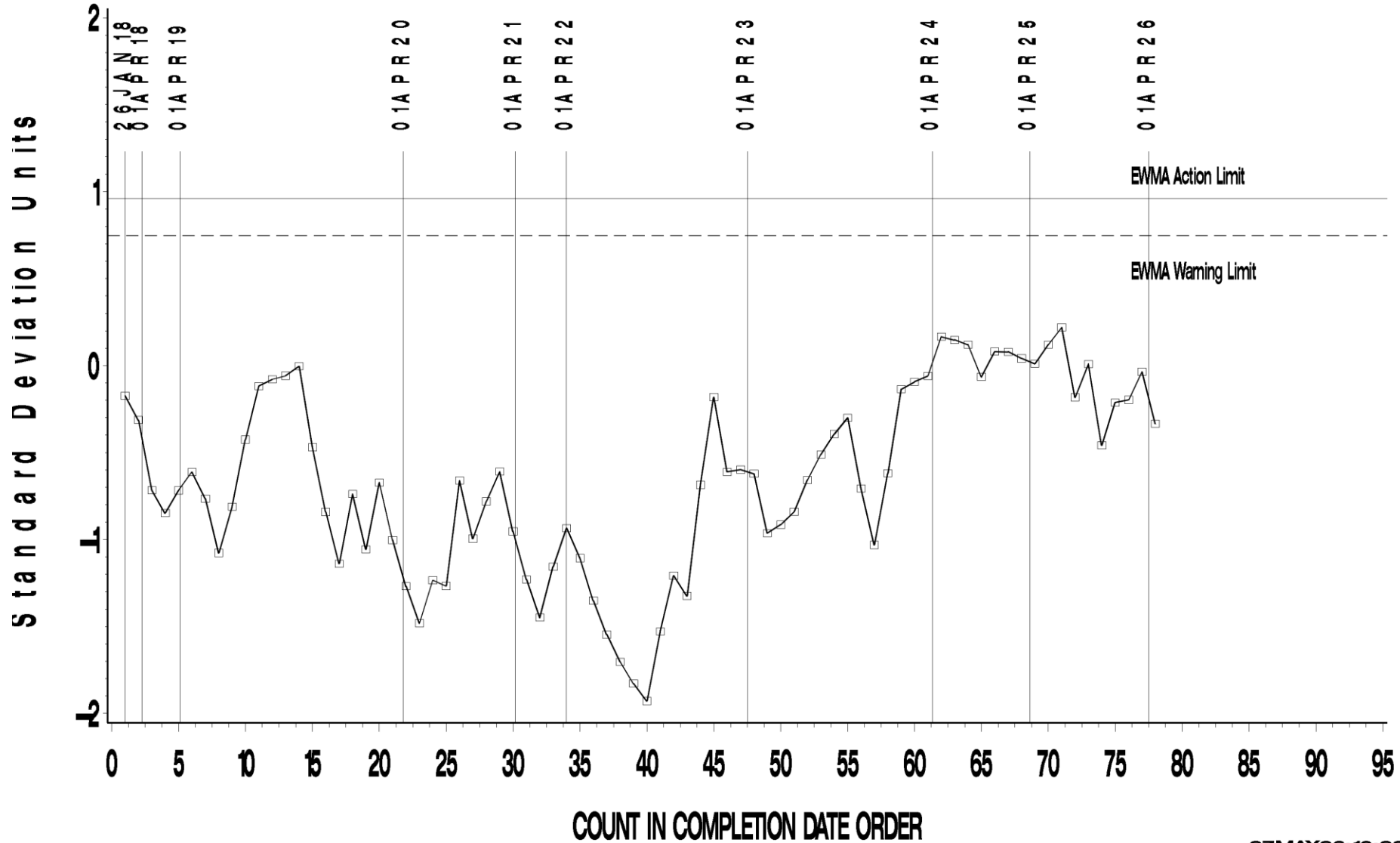


Results for 155-1/155-2 are not included in this SPIT chart due to its current targets yielding undefined calculations

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

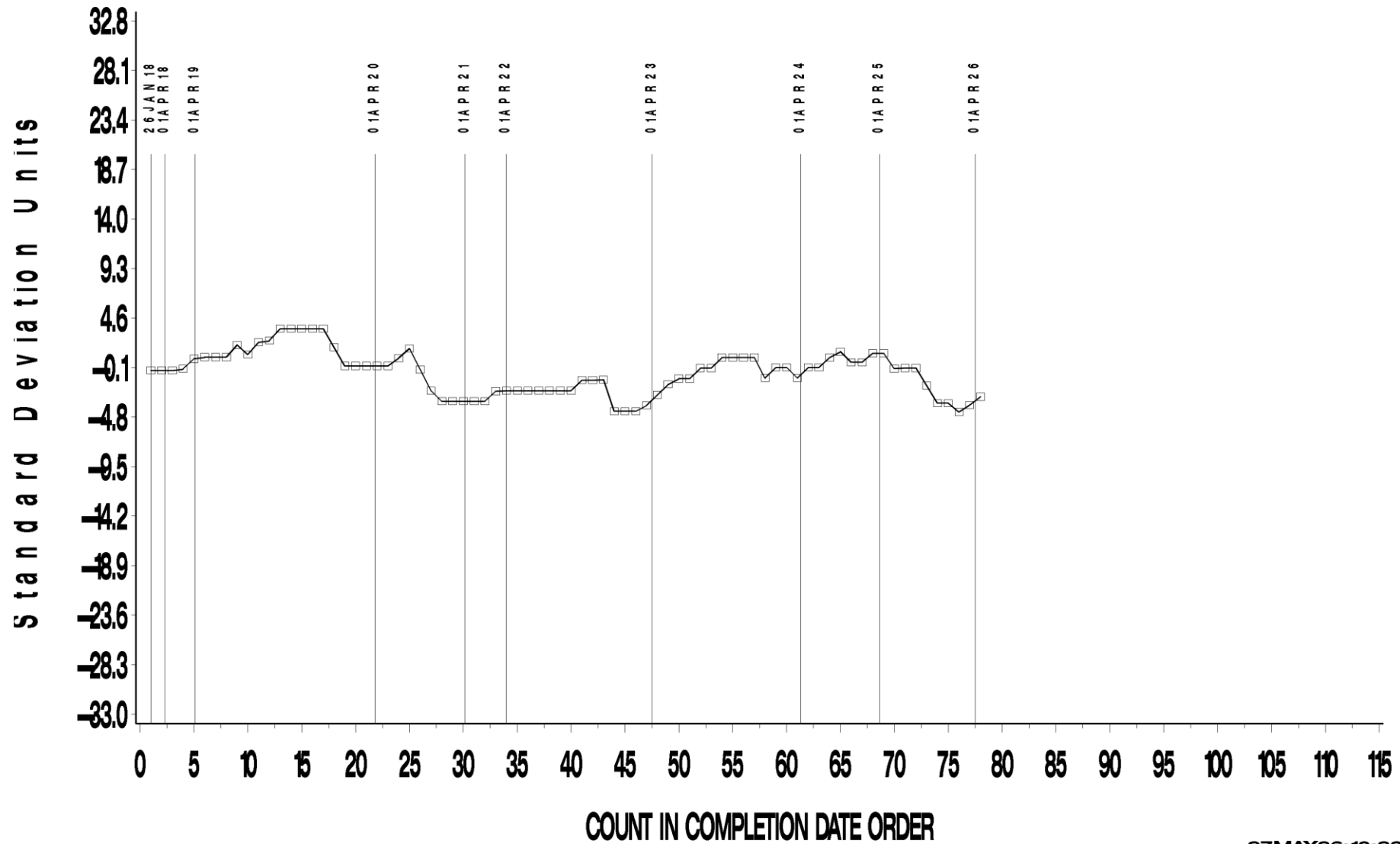


LTMS Precision Analysis



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

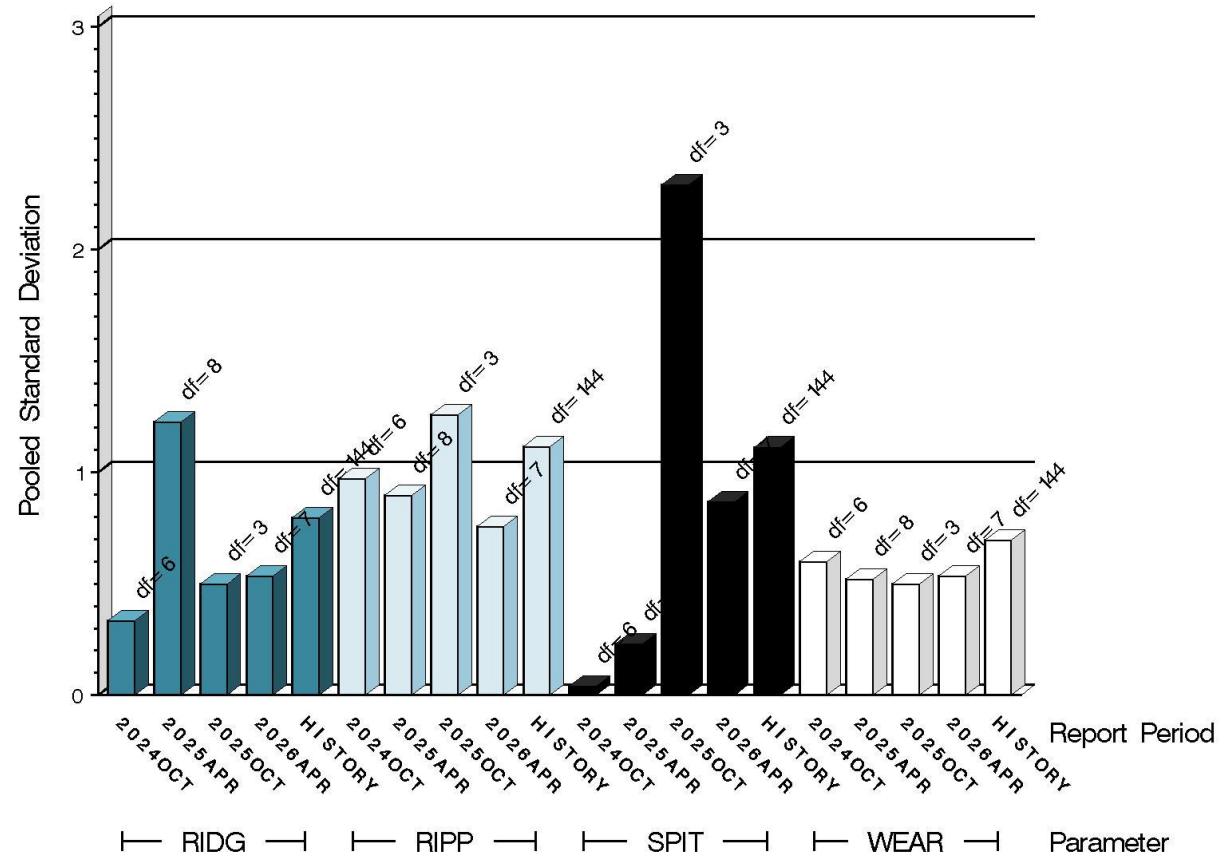
CUSUM Severity Analysis



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

# L-37-1 Test Precision

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



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L-42

»» April 2026

# L-42 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	14
Acceptable Discrimination Test	AS	3
Operationally Invalid Calibration Test	LC	1
<b>Total</b>		<b>18</b>

# L-42 Failed Tests

Test Status	Validity Code	#
Unacceptable Calibration Test	OC	0
<b>Total</b>		

# L-42 Lost Tests

Test Status	Validity Code	#
Torque of spec due to fuel pump failure	LC	1
Total		1

# L-42 Summary of Severity & Precision

## Severity

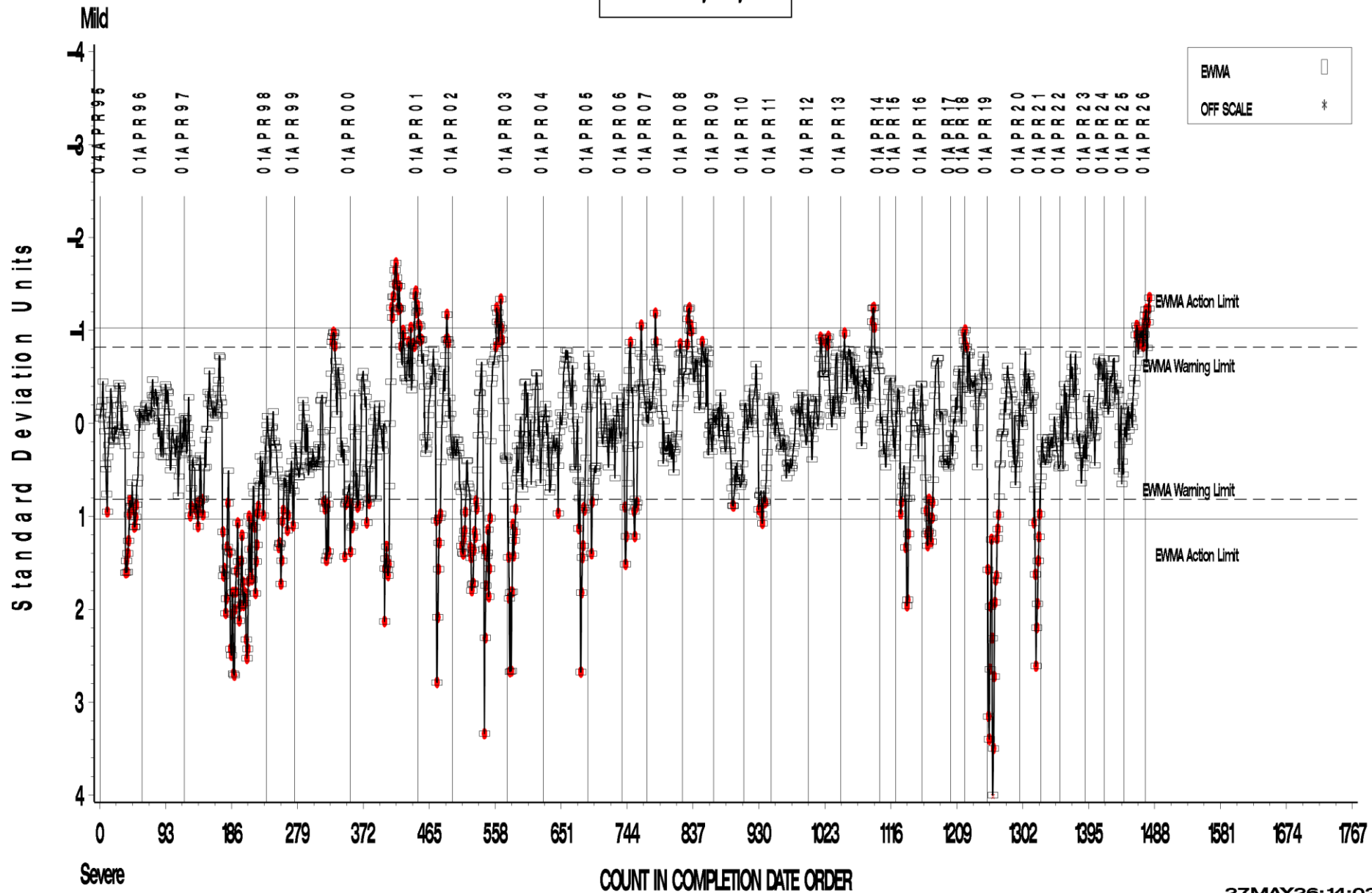
Pinion scoring ended the reporting period exceeding the action limit in the mild direction.

## Precision

Pinion scoring this period remained within the limits.

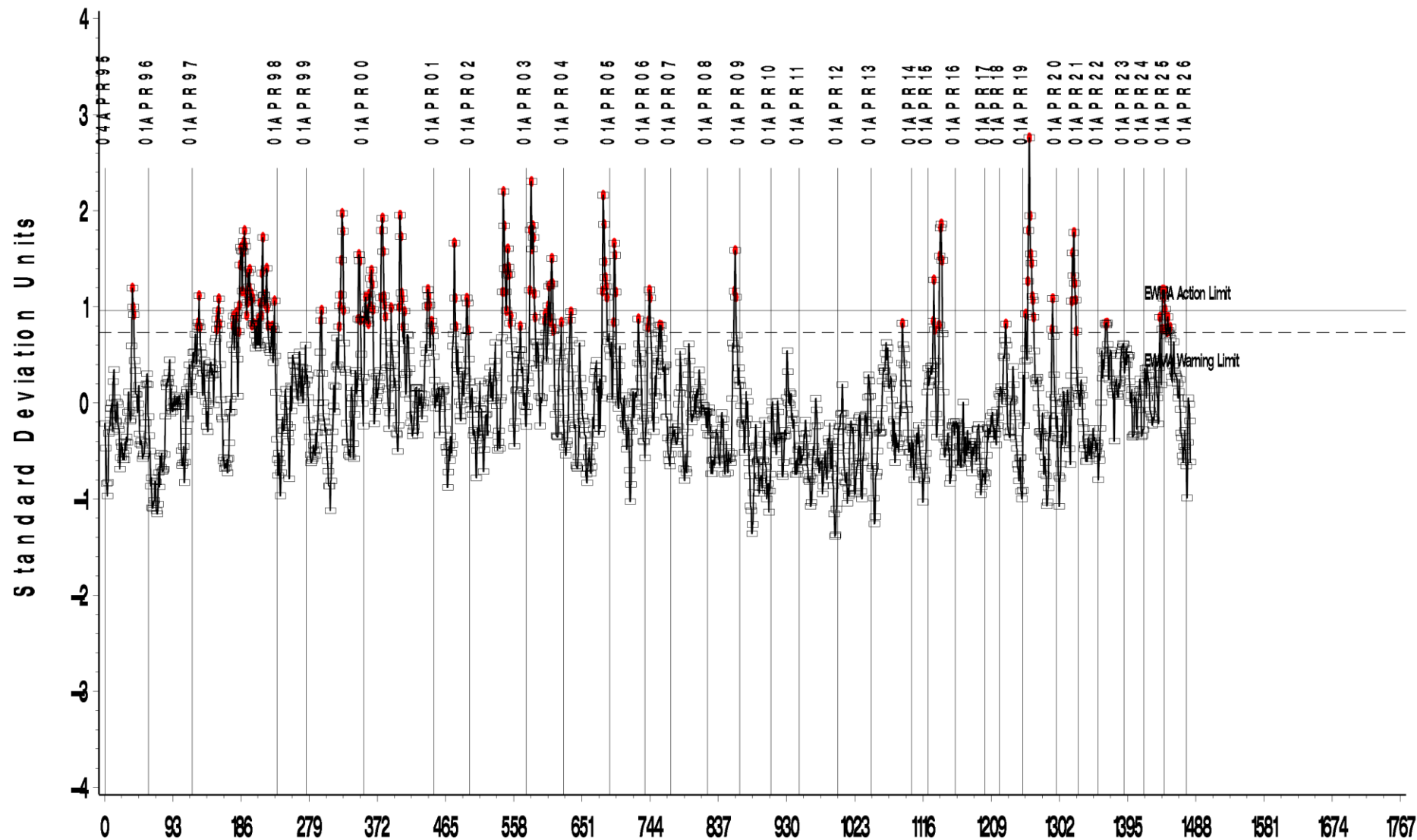
FINAL EOT PINION SCORING COAST SIDE

LTMS Severity Analysis



FINAL EOT PINION SCORING COAST SIDE

LTMS Precision Analysis



FINAL EOT PINION SCORING COAST SIDE

CUSUM Severity Analysis



# L-42 Test Precision

Lab	Coast Side Pinion Scoring $\Delta/s$	Pooled Standard Deviation			
		df	Coast Side Pinion Scoring	Coast Side Ring Scoring	Shock Series I Coast Side Ring Scoring
A	-1.37	7	5.76	1.93	0.00
B	0.09	1	5.21	2.12	0.00
D	1.18	3	6.45	1.41	0.00
G	.	.	.	.	.

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# HTCT

»» April 2026

# HTCT Activity

- No HTCT test activity this reporting period.

# OSCT

»» April 2026

# OSCT Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	26
Unacceptable Calibration Test	OC	3
Unacceptable Info Run (Elastomer Approval)	MI	3
Acceptable Info Run (Elastomer Approval)	NI	22
Aborted Information Run	XI	1
<b>Total</b>		<b>55</b>

# OSCT – Failed Tests

Test Status	Validity Code	#
unacceptable tests this period – high of target	OC	0
unacceptable tests this period – low of target	OC	2
unacceptable tests this period – low/high of target	OC	1
<b>Total</b>		<b>3</b>

# OSCT – Lost Tests

Test Status	Validity Code	#
Power Outage	XI	1
<b>Total</b>		<b>1</b>

# OSCT Test Severity

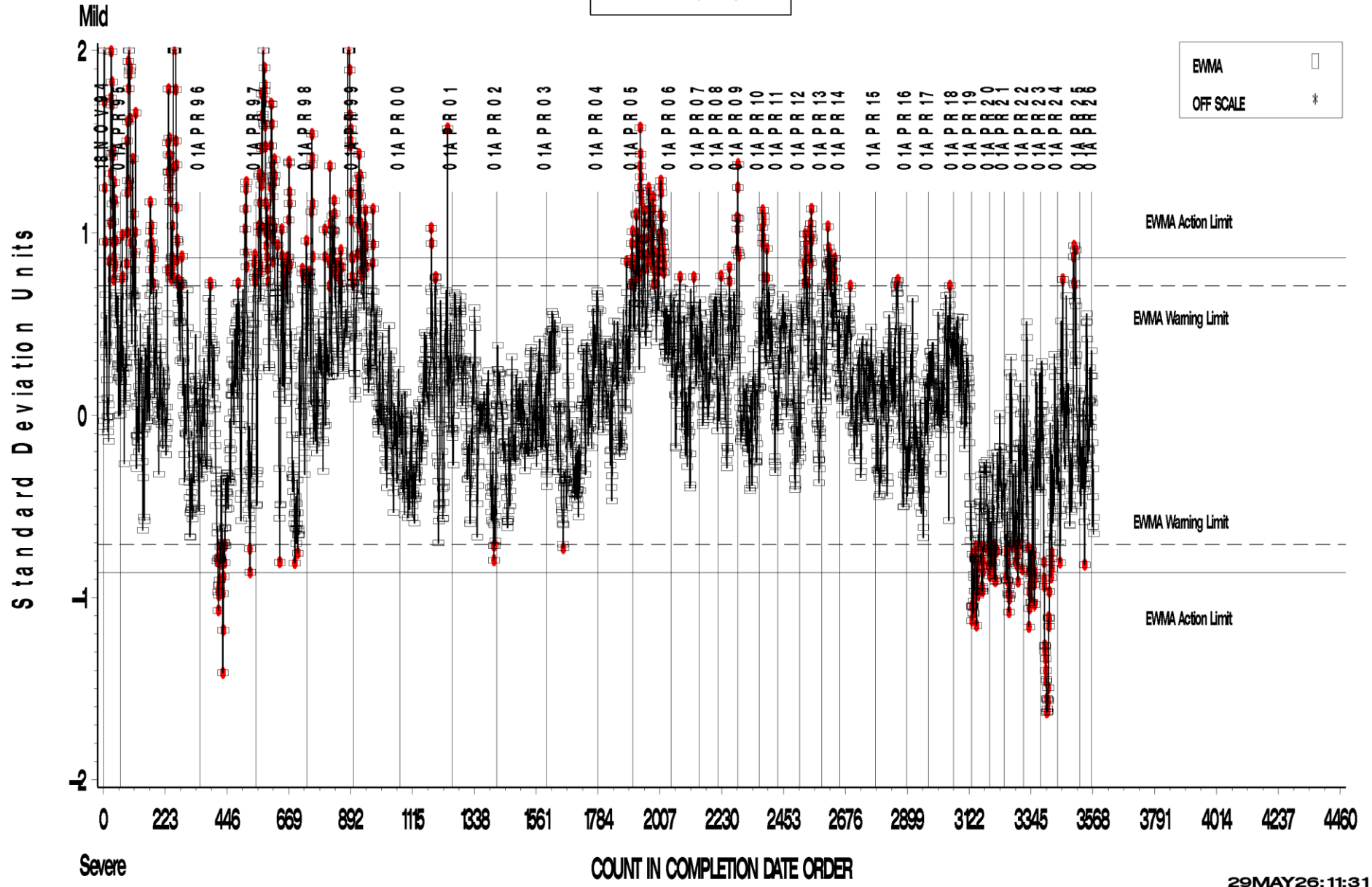
- **Severity:**
  - The combined elastomer plots show that all parameters remained within the limits this period.
  - The individual elastomer plots showed NI PELA and FL SAHA were both outside the limits.
  - PA PVCA had several test outside the action limit but finished the period inside of the limits.

# OSCT Test Severity

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

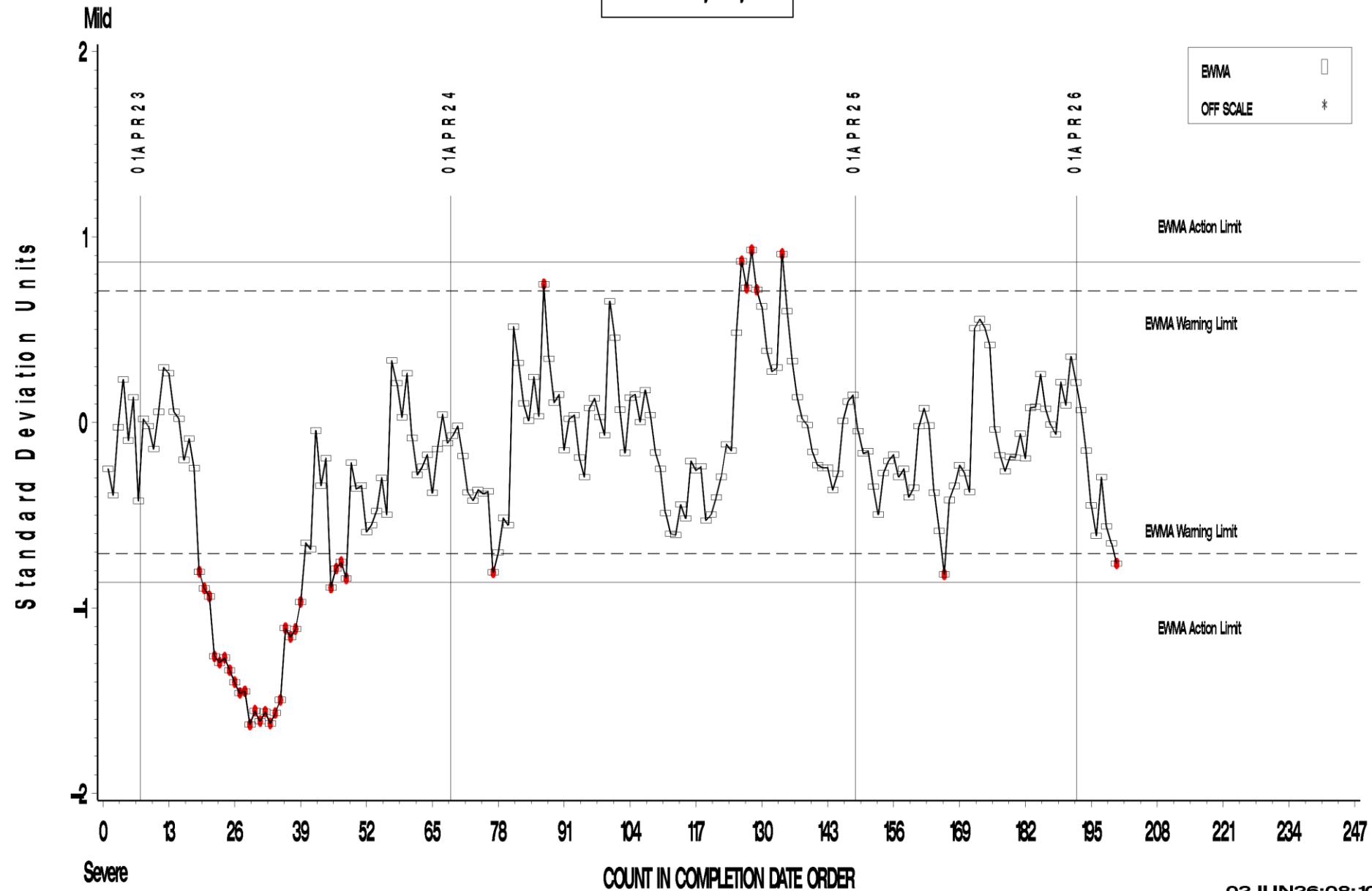
REF. ELONGATION CHANGE AVG.

LTMS Severity Analysis



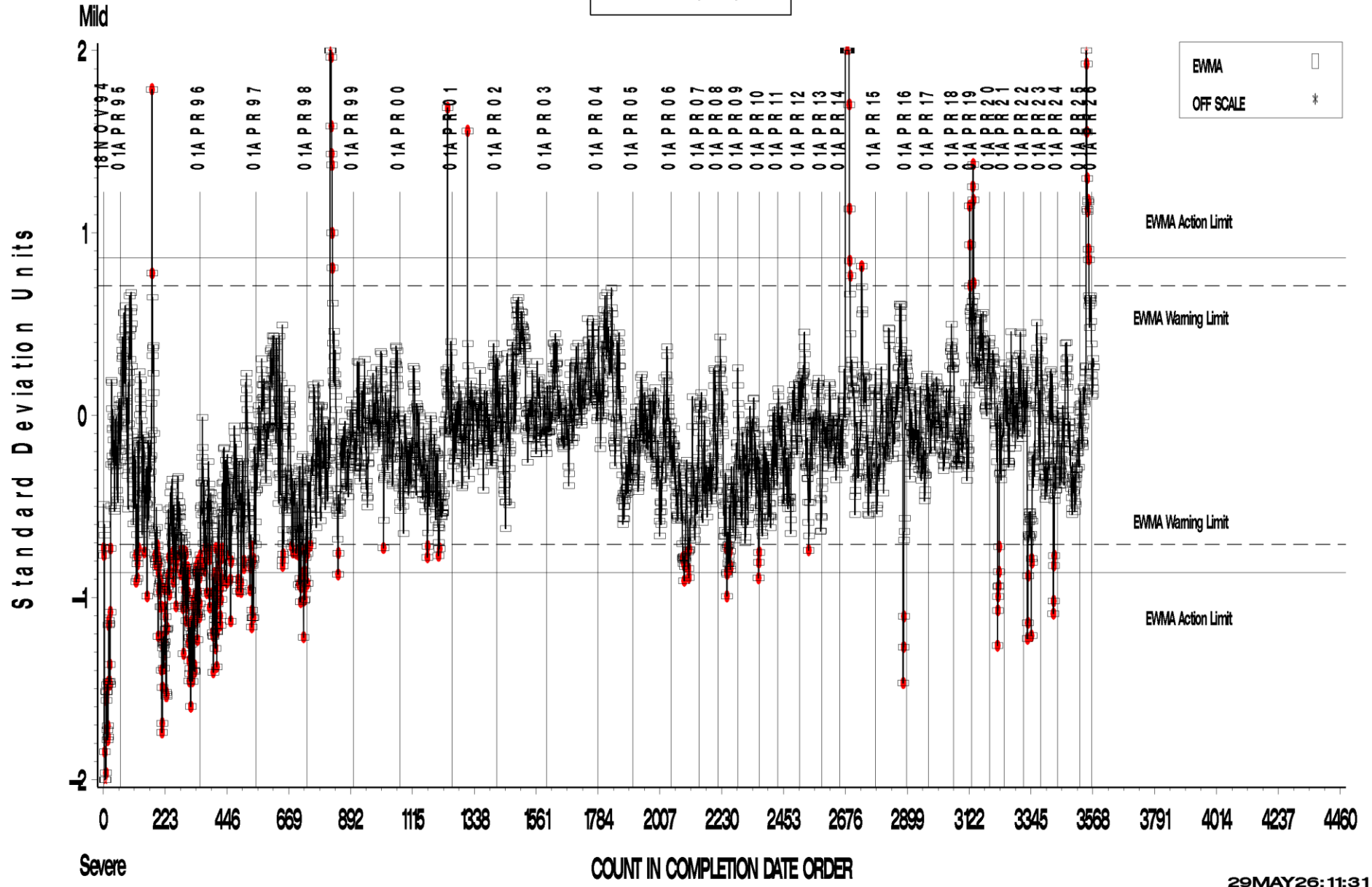
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LTMS Severity Analysis



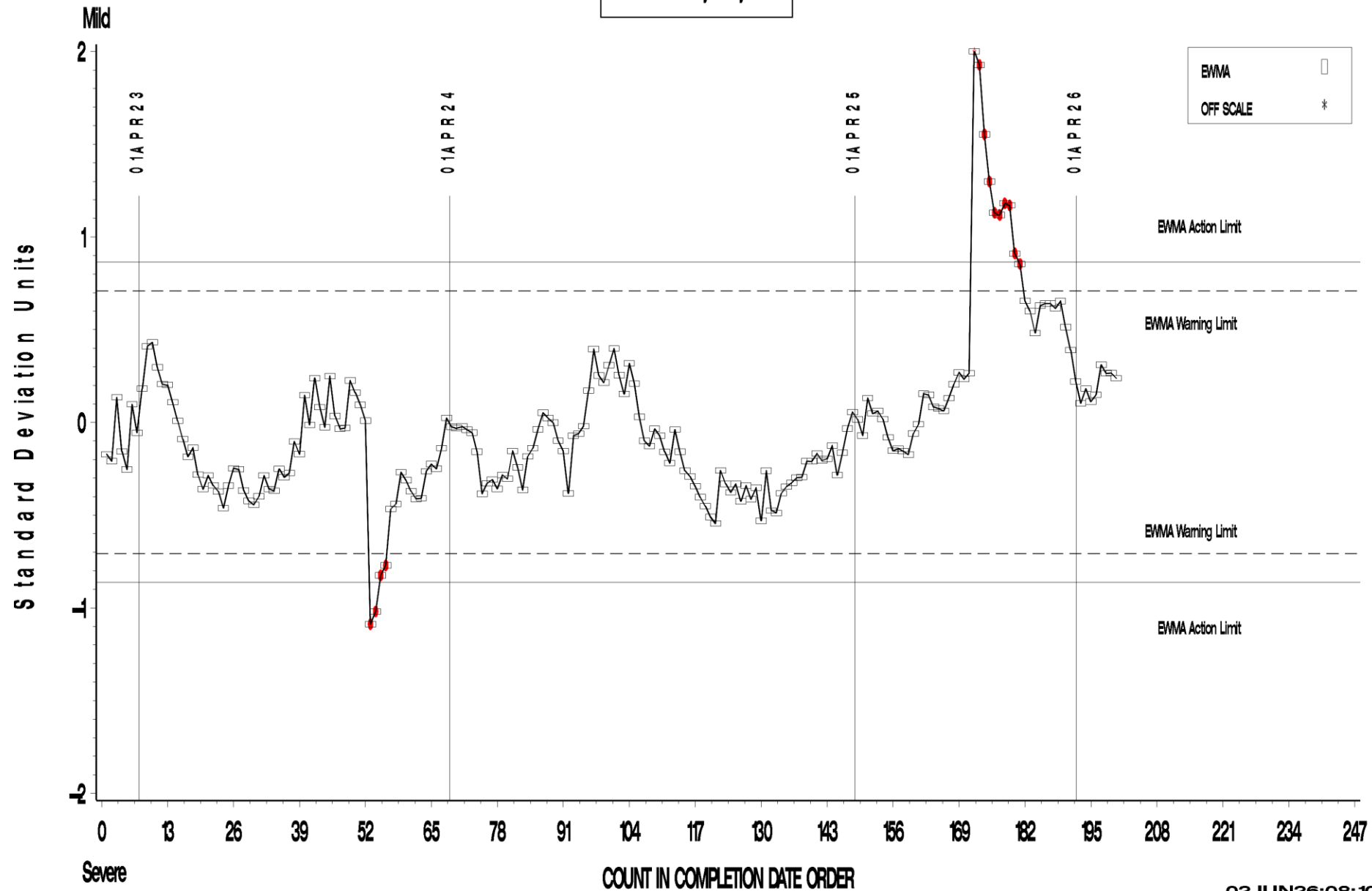
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LTMS Severity Analysis



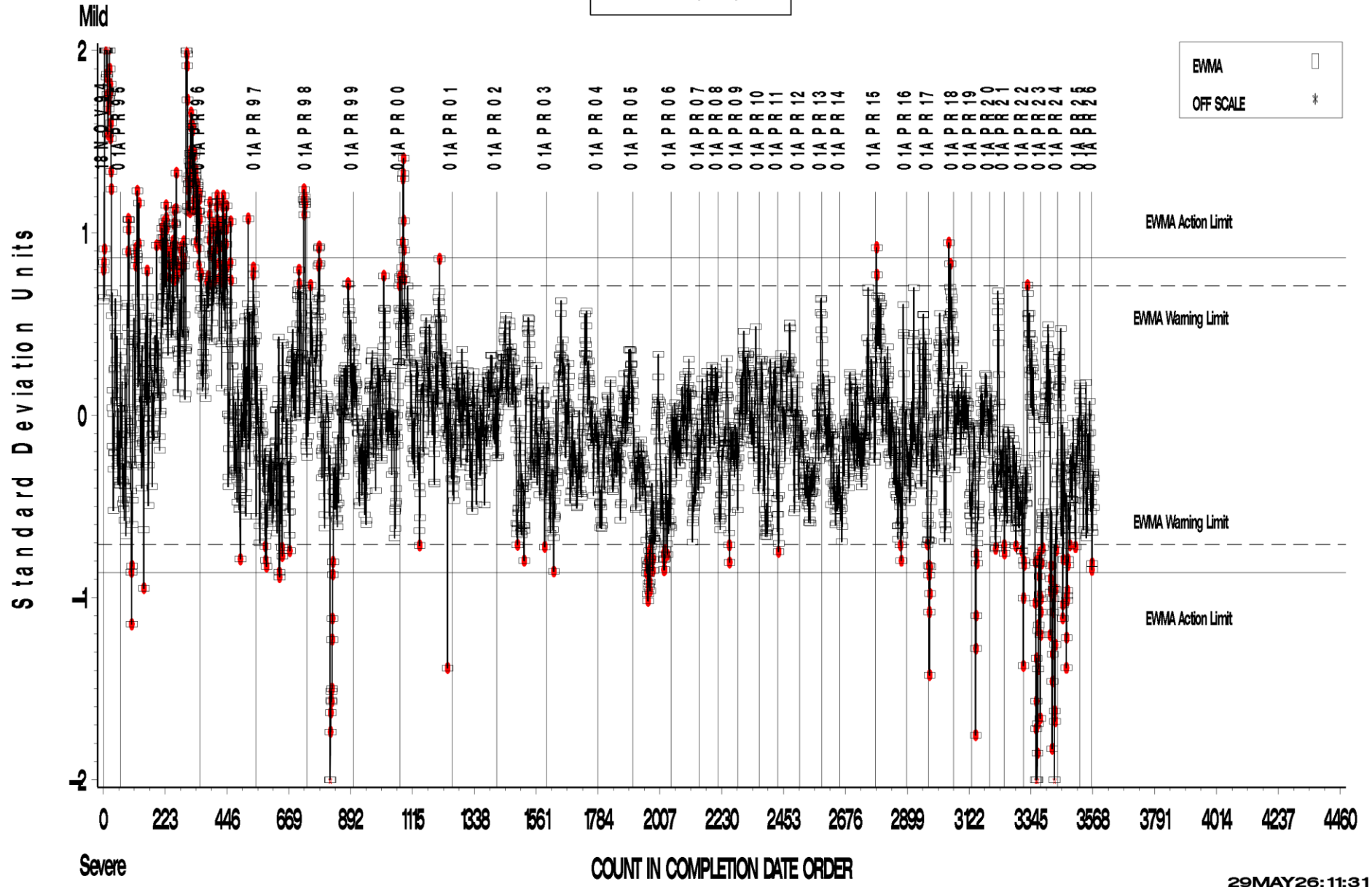
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LTMS Severity Analysis



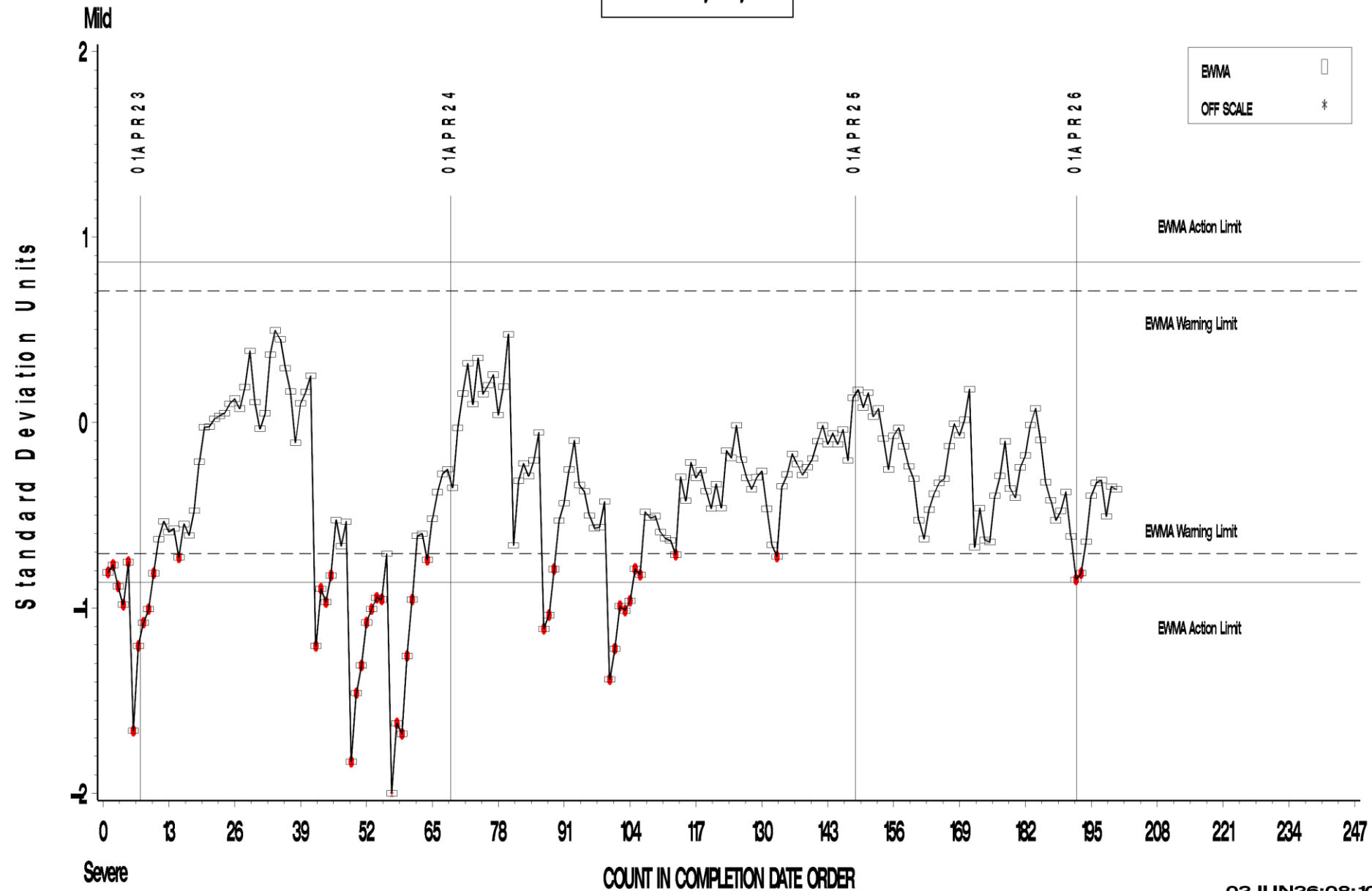
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LTMS Severity Analysis



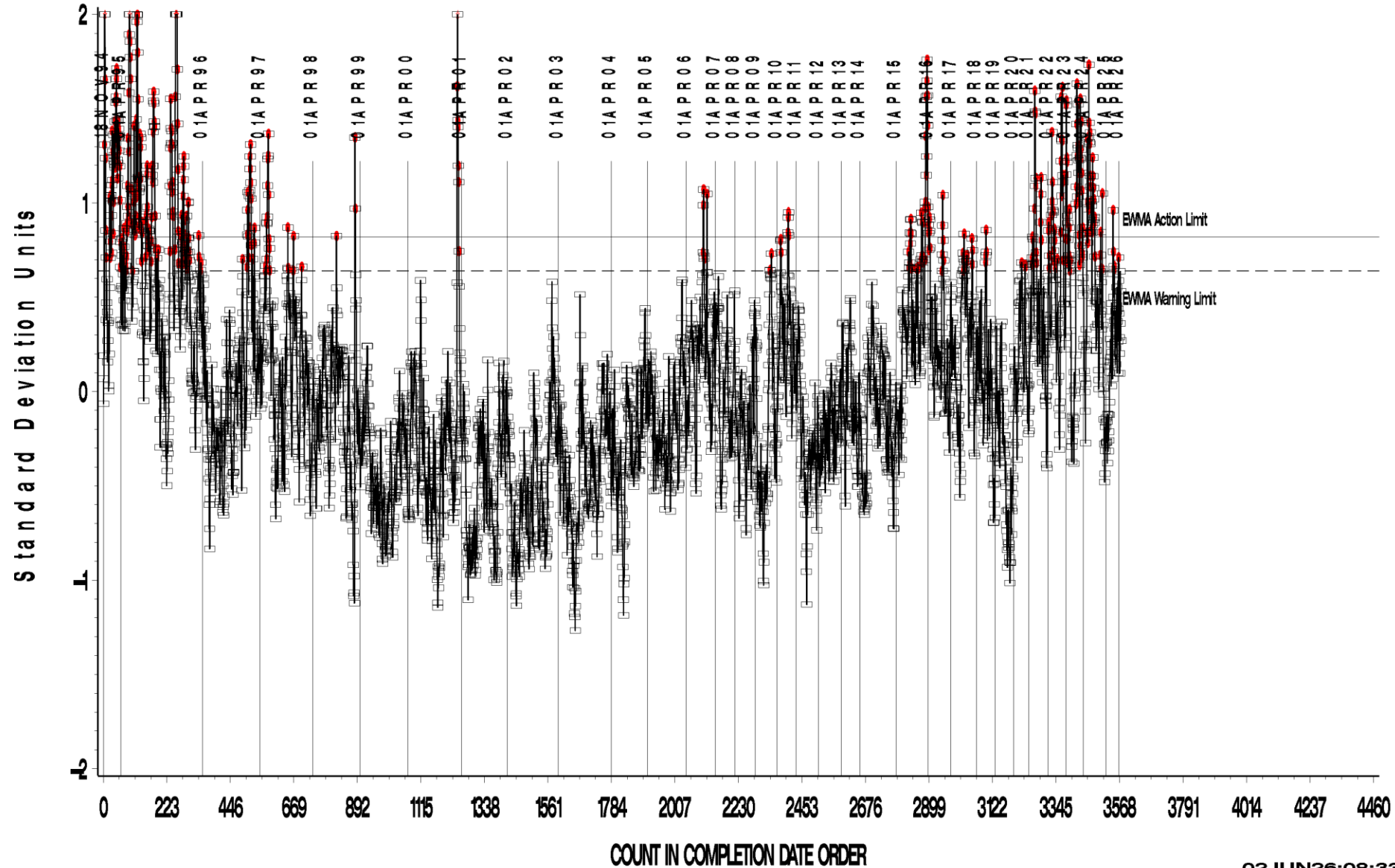
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LTMS Severity Analysis



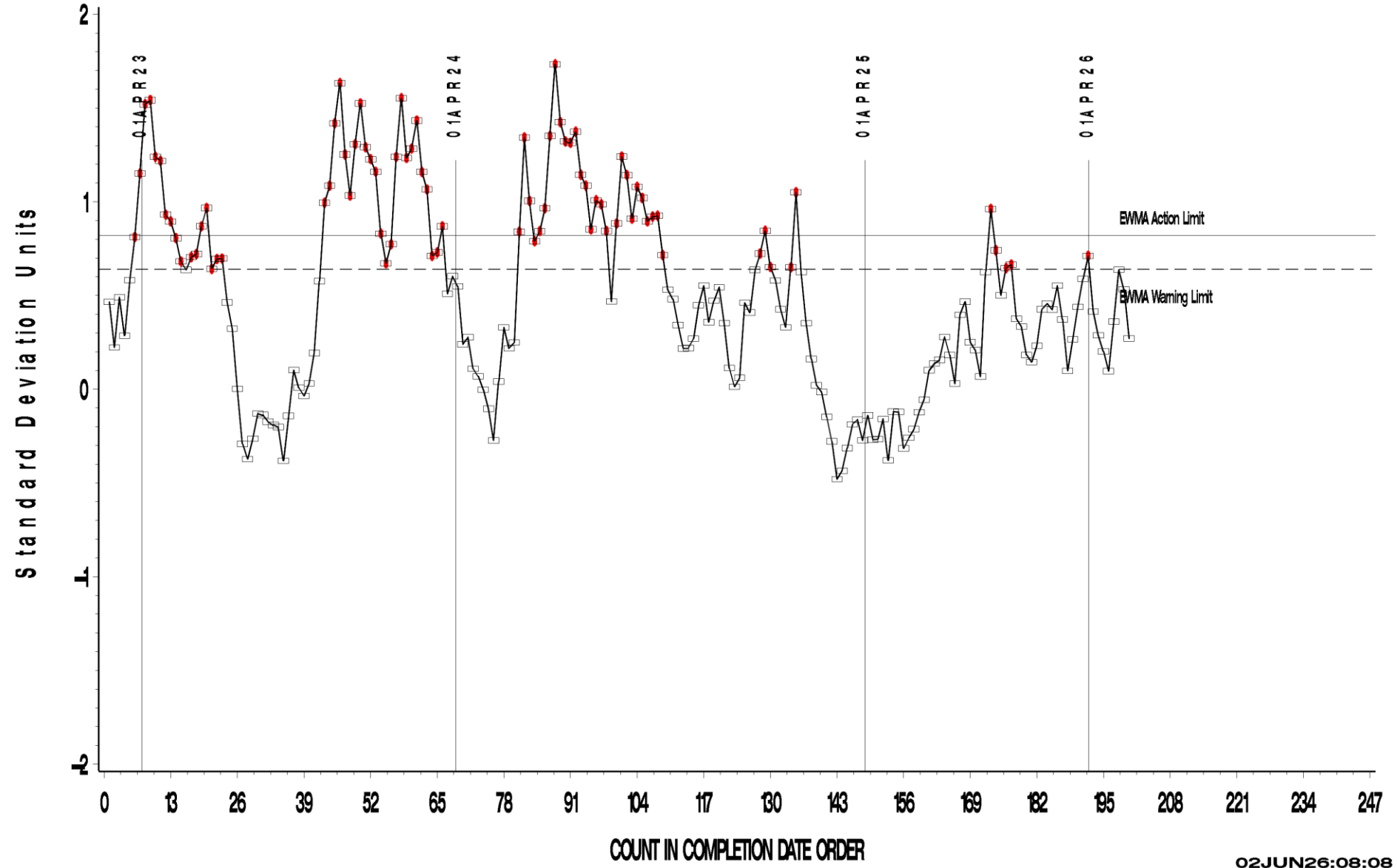
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LTMS Precision Analysis



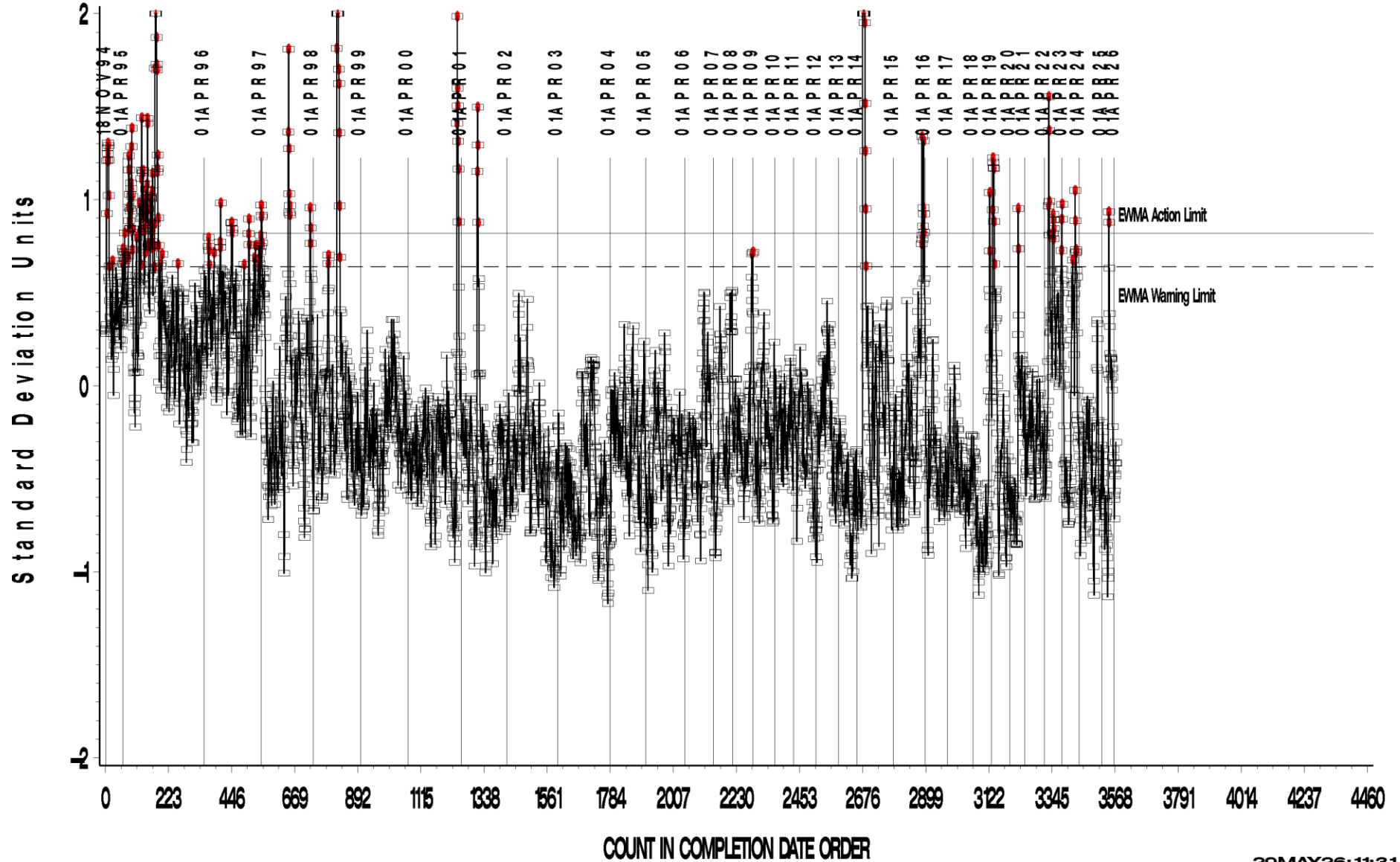
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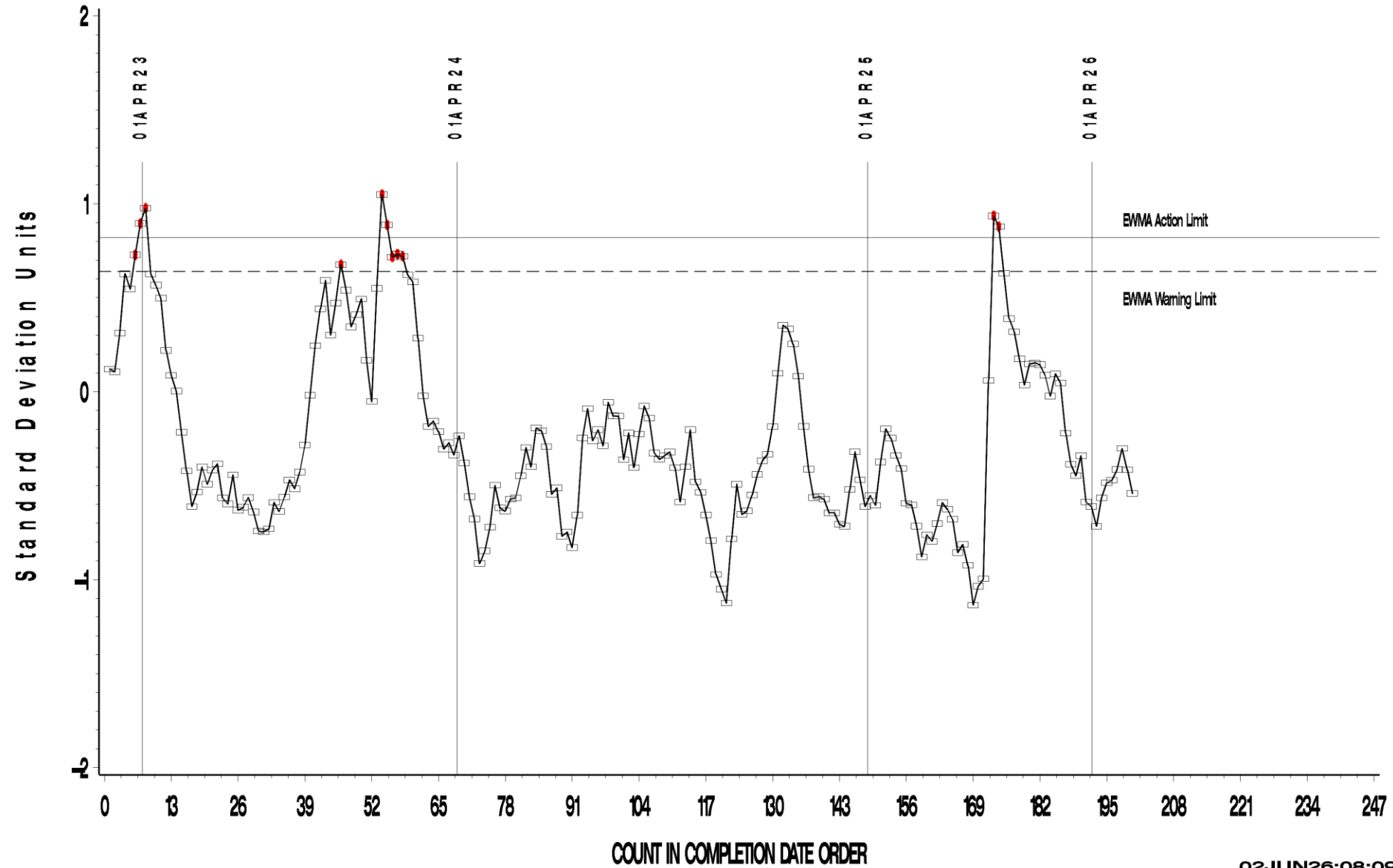
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LTMS Precision Analysis



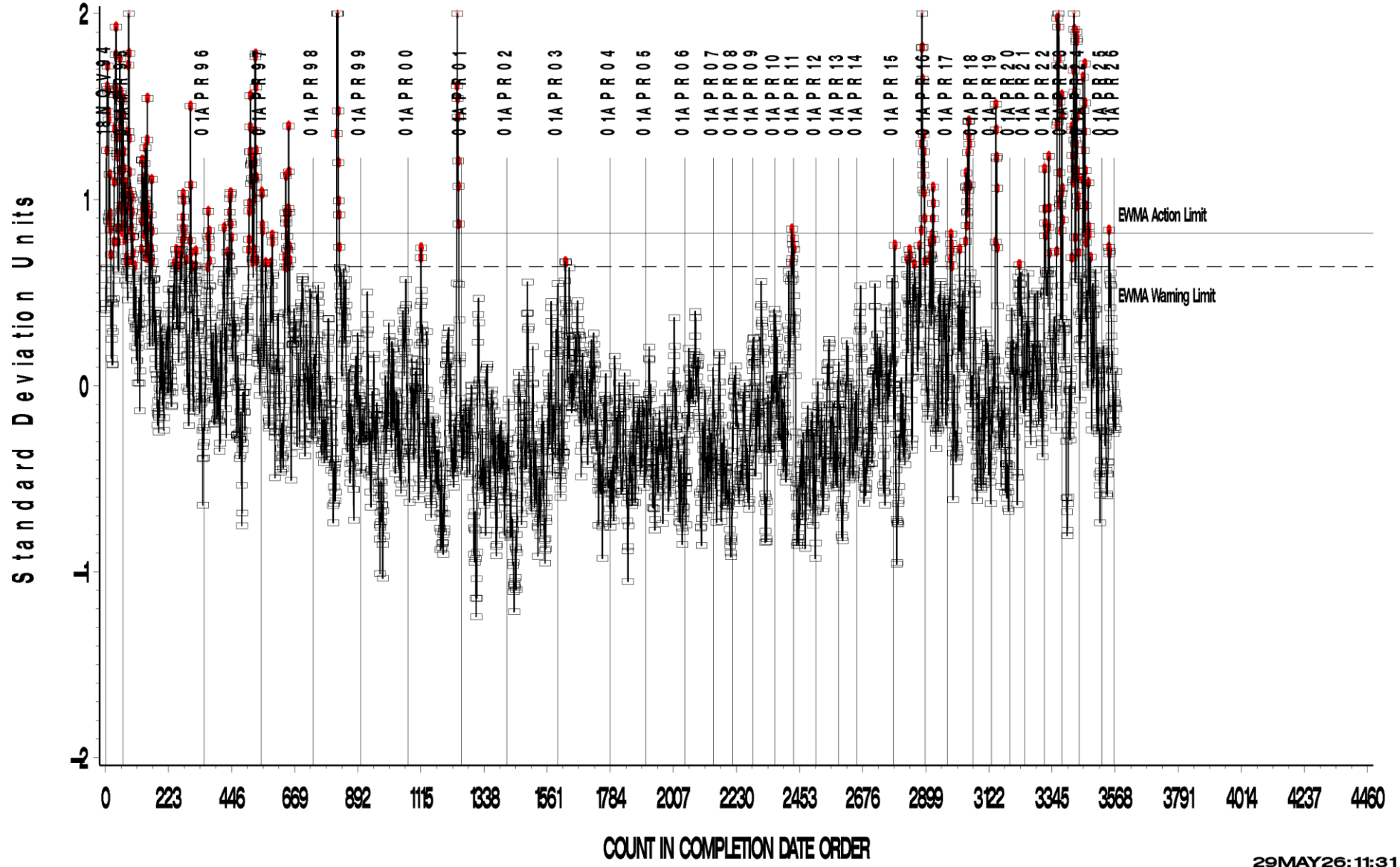
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LTMS Precision Analysis



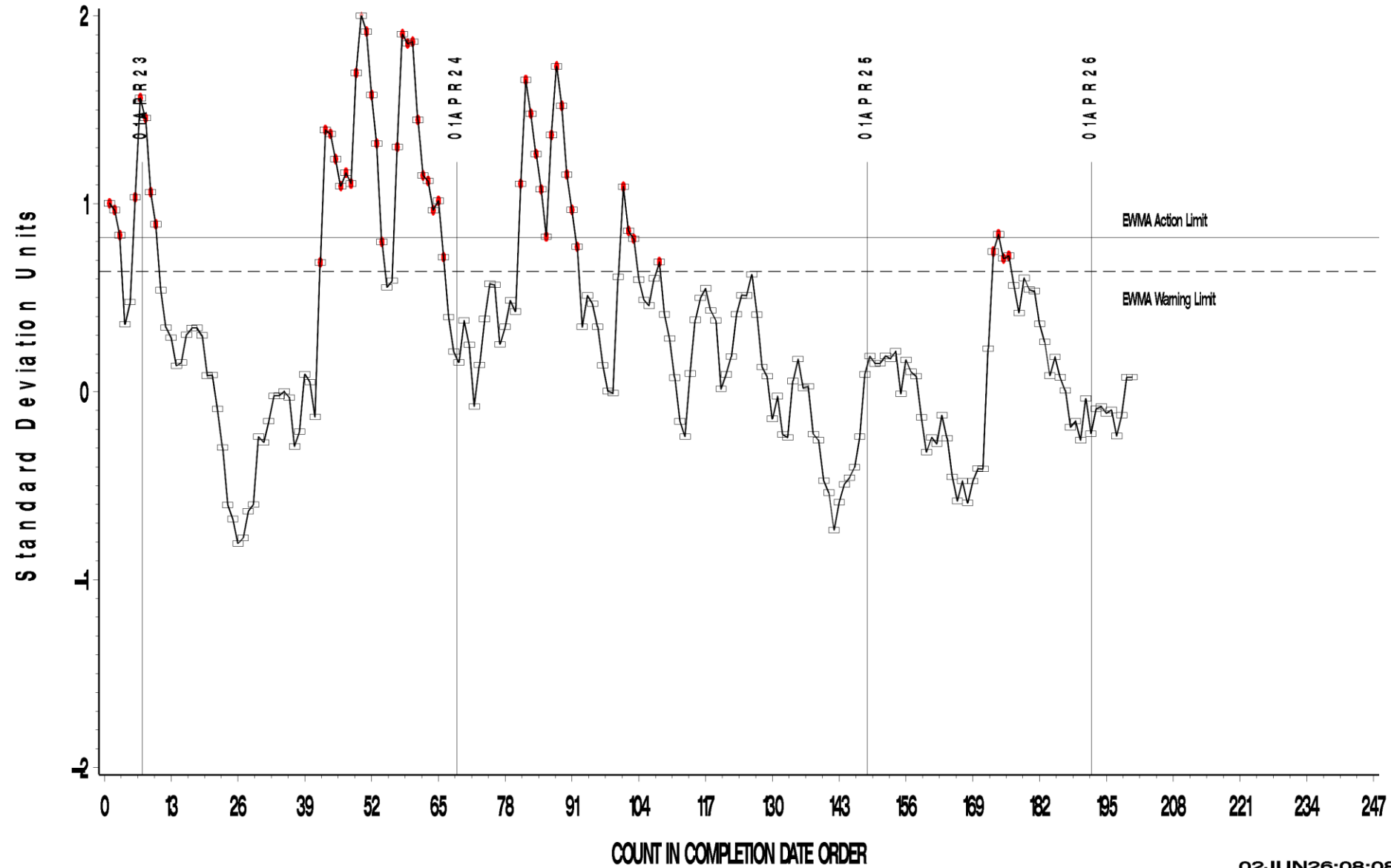
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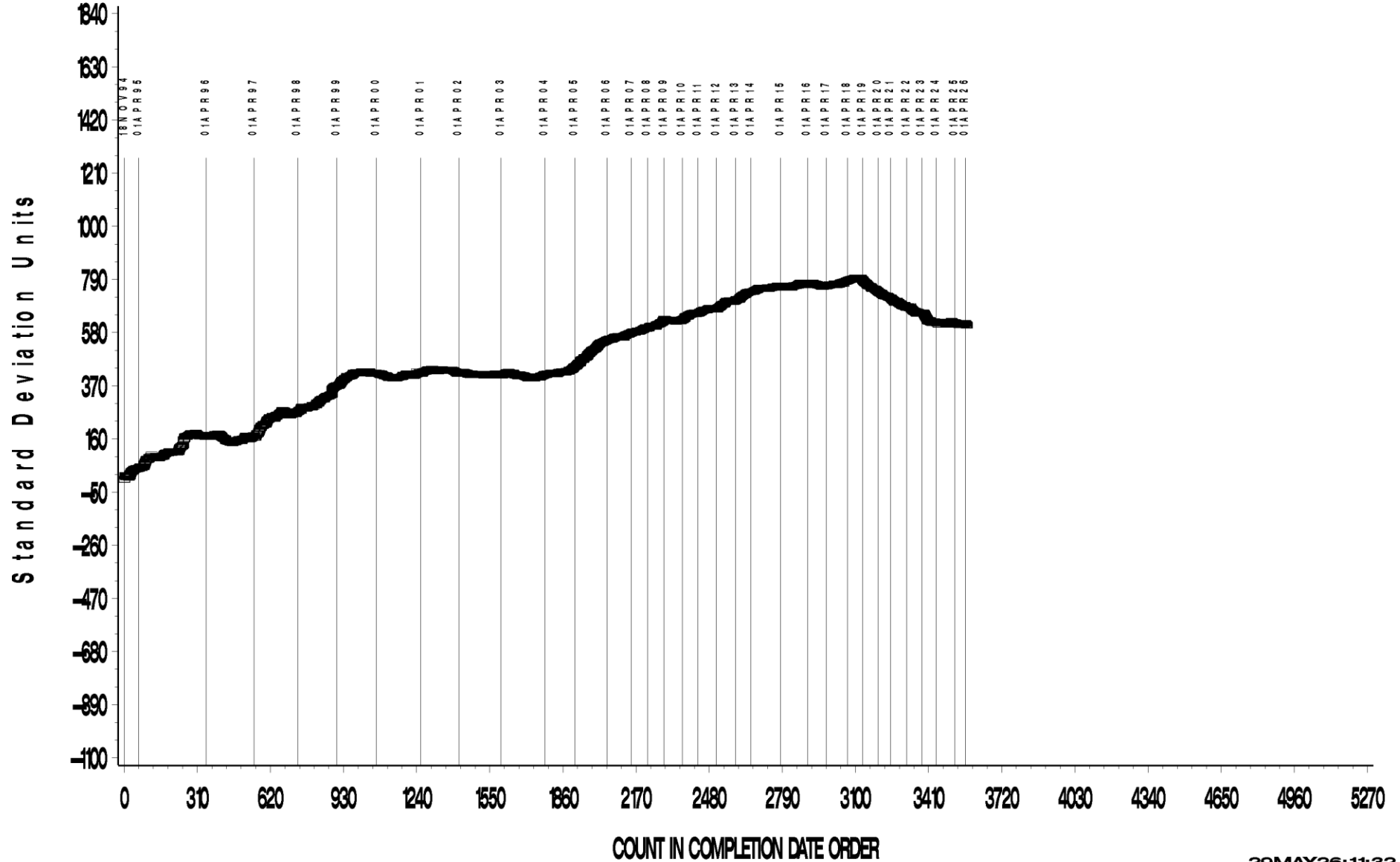
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LTMS Precision Analysis



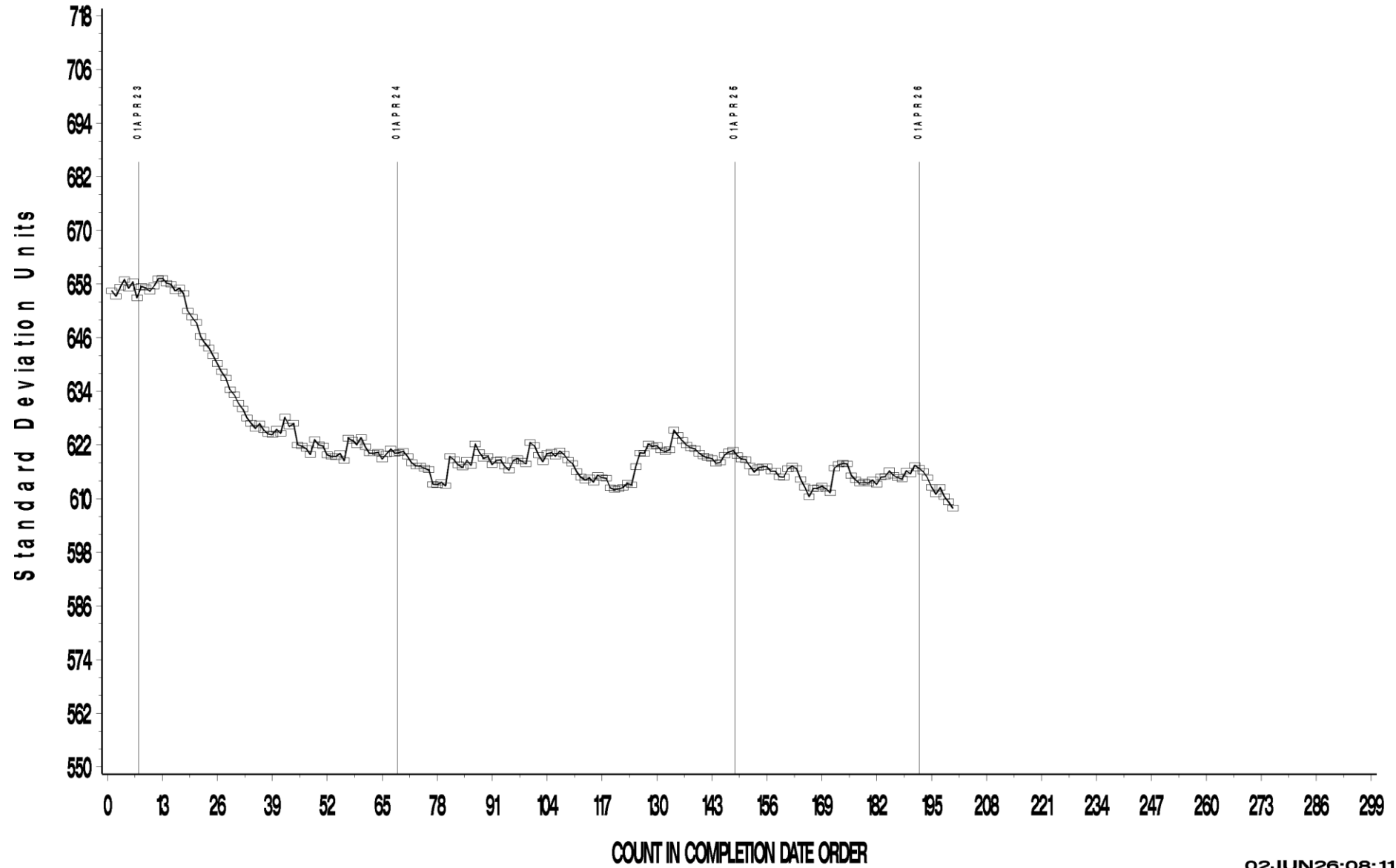
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CUSUM Severity Analysis



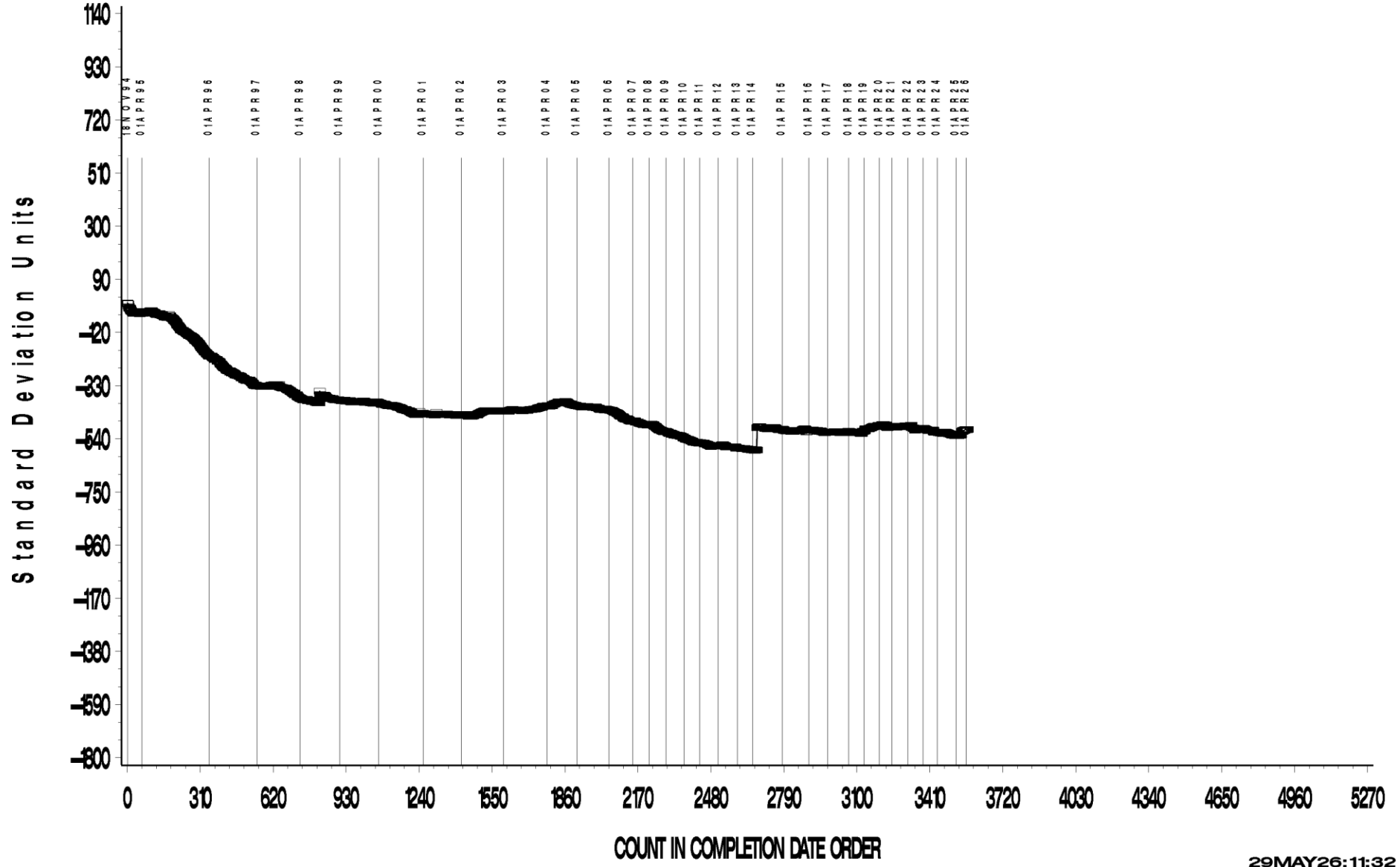
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CUSUM Severity Analysis



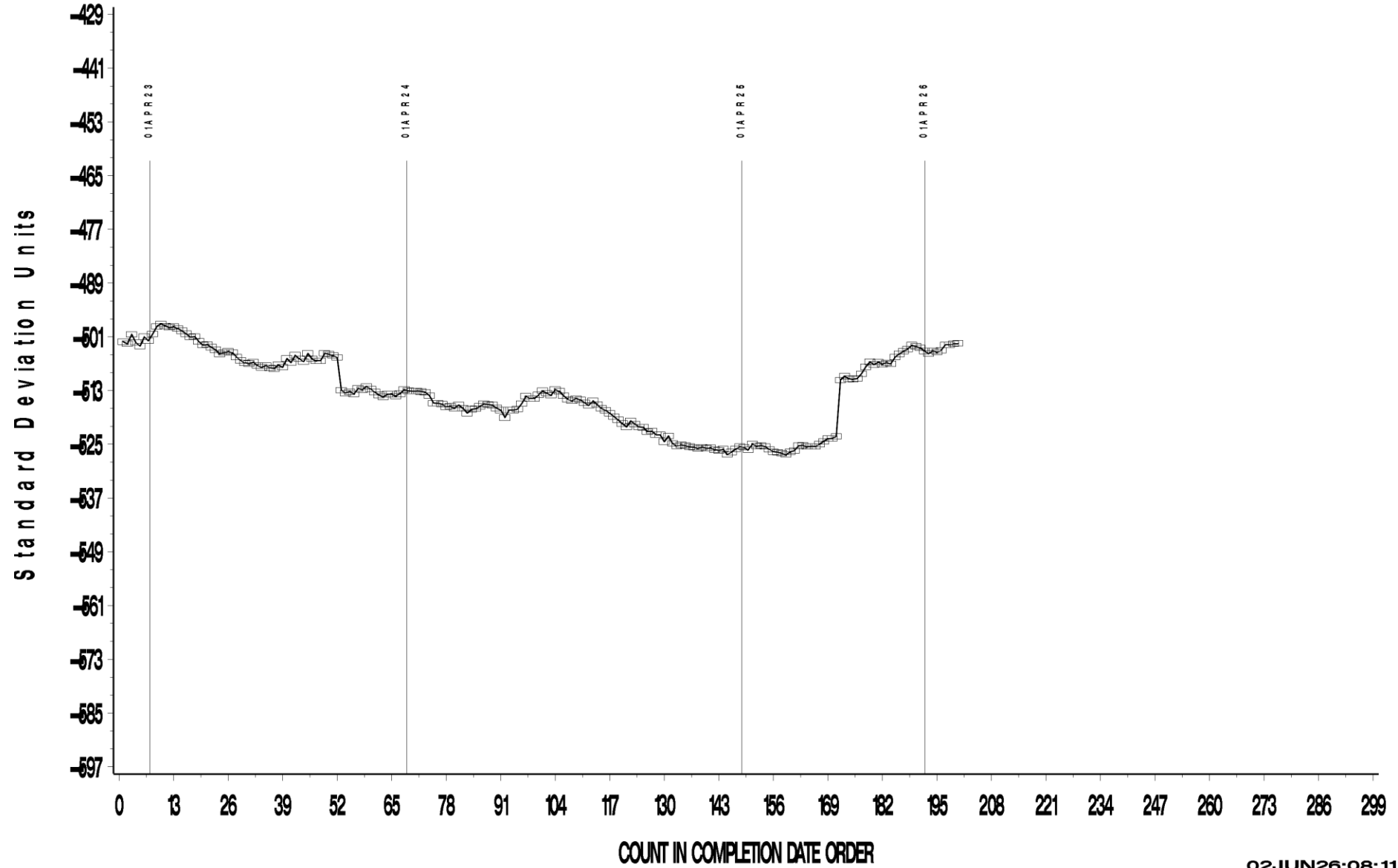
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CUSUM Severity Analysis



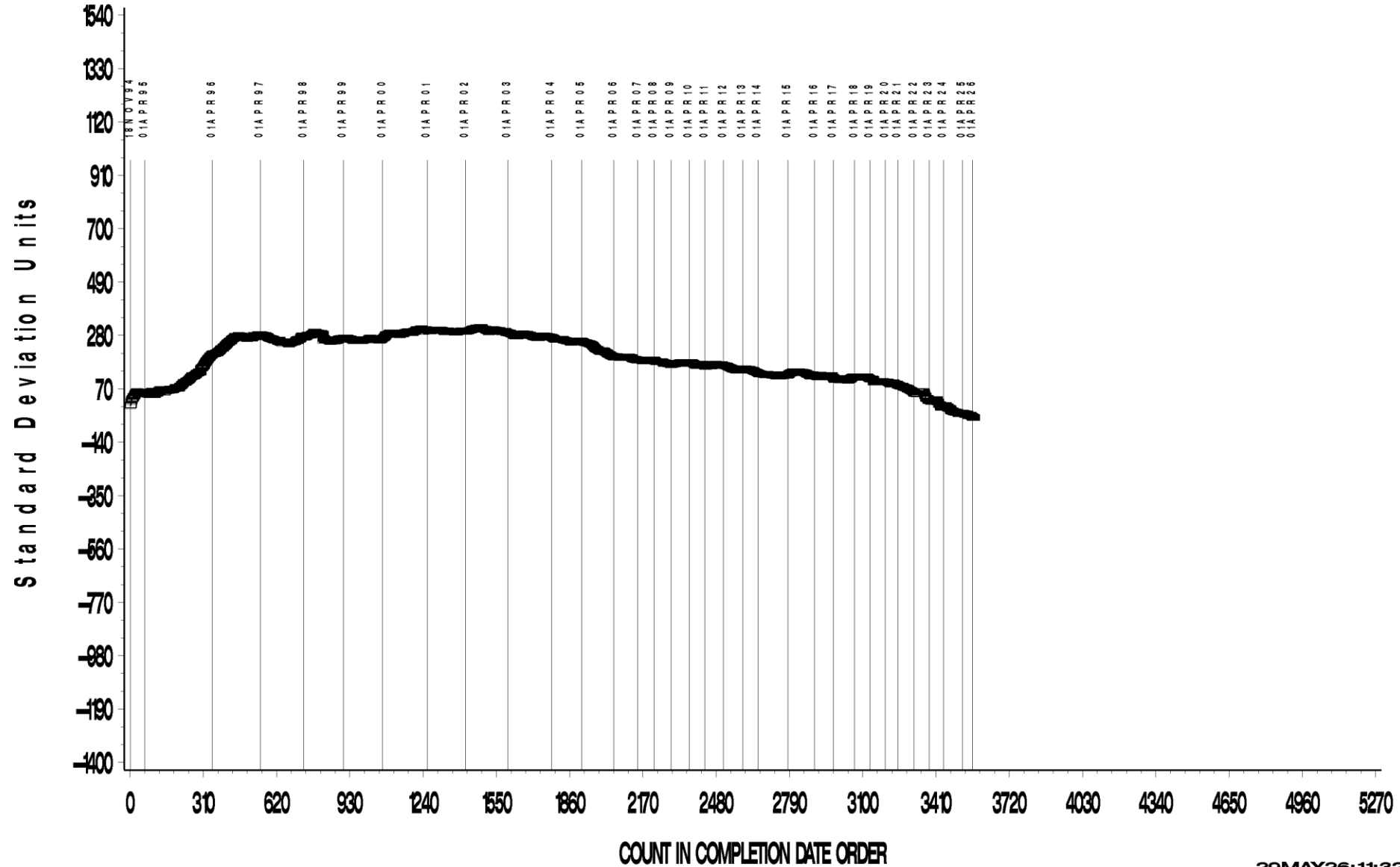
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CUSUM Severity Analysis



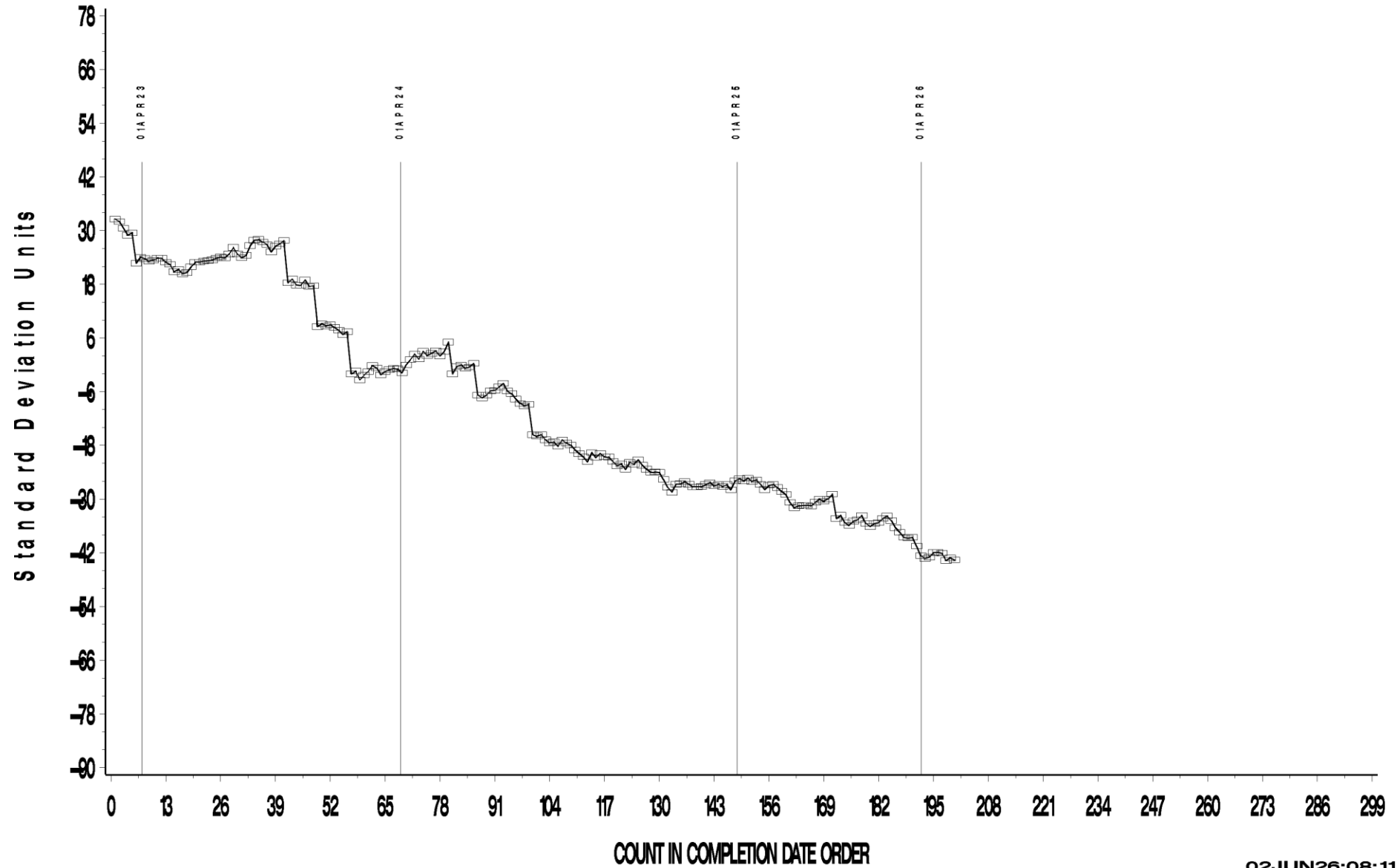
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CUSUM Severity Analysis

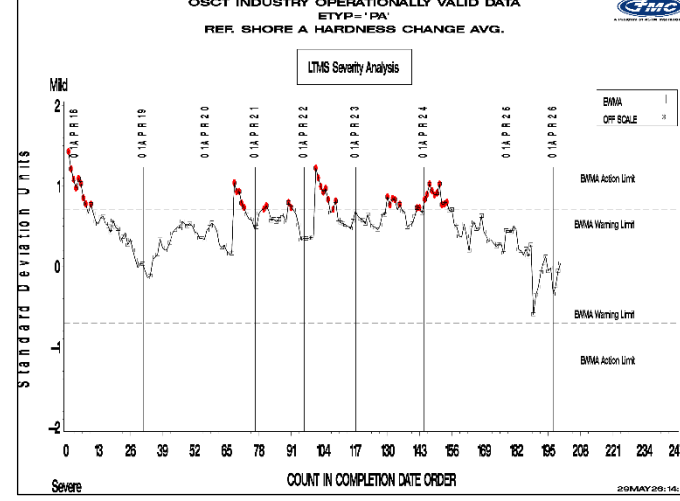
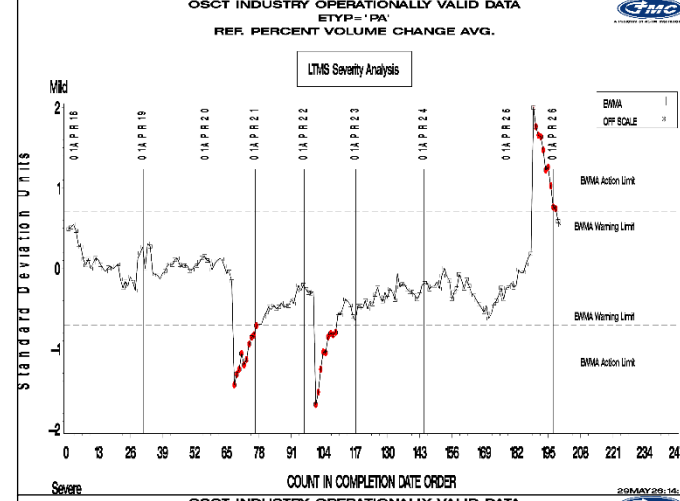
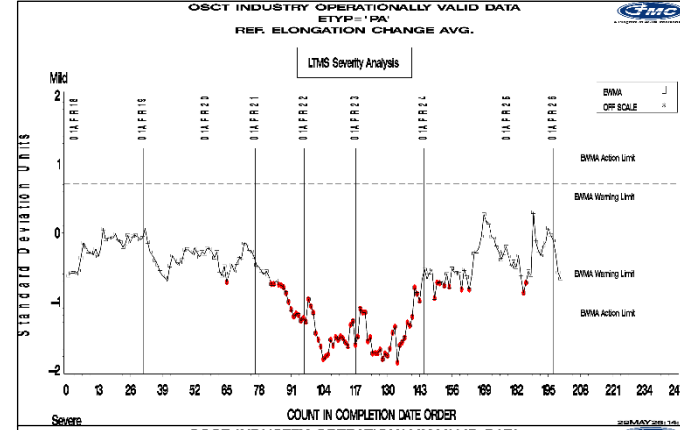
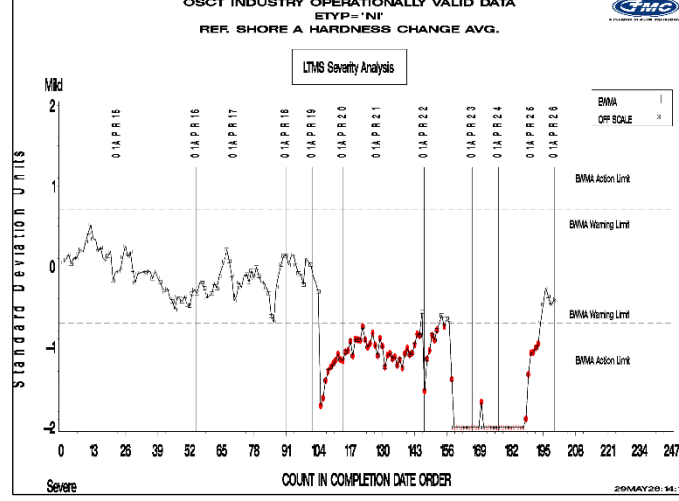
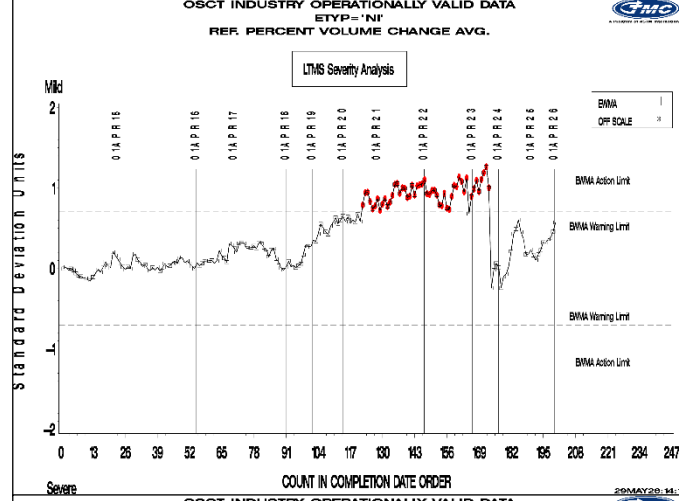
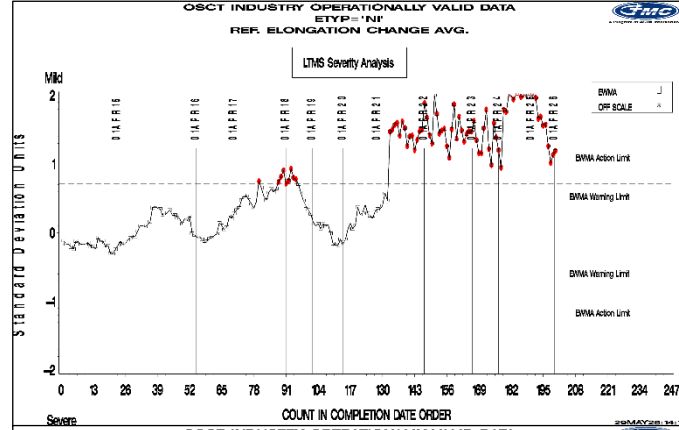
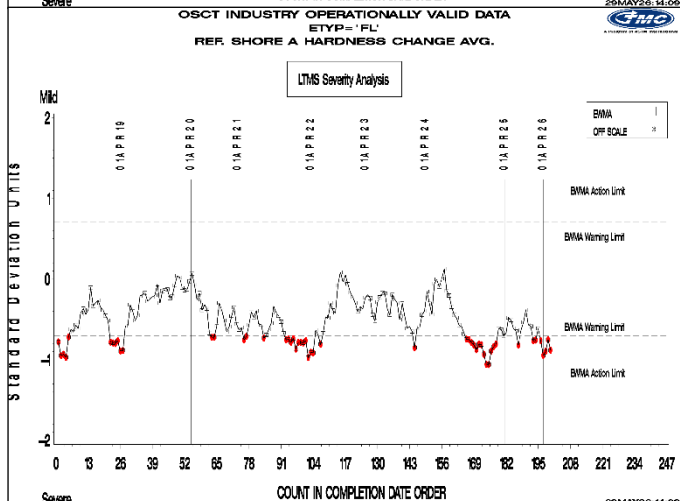
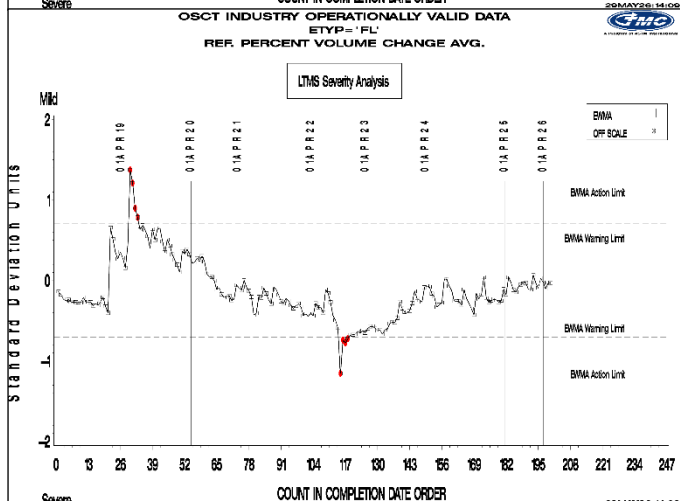
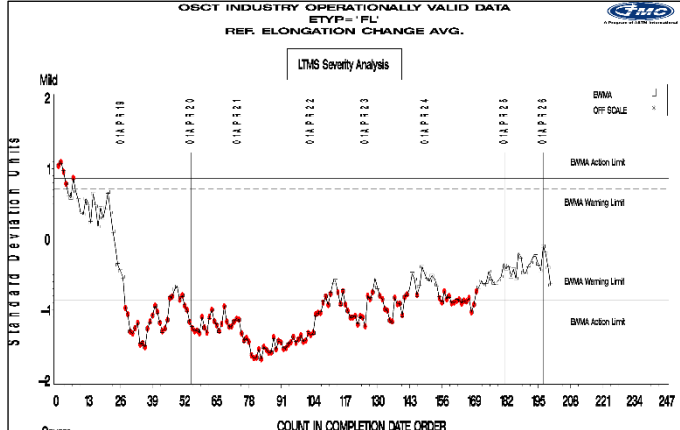


REF. SHORE A HARDNESS CHANGE AVG.

CUSUM Severity Analysis

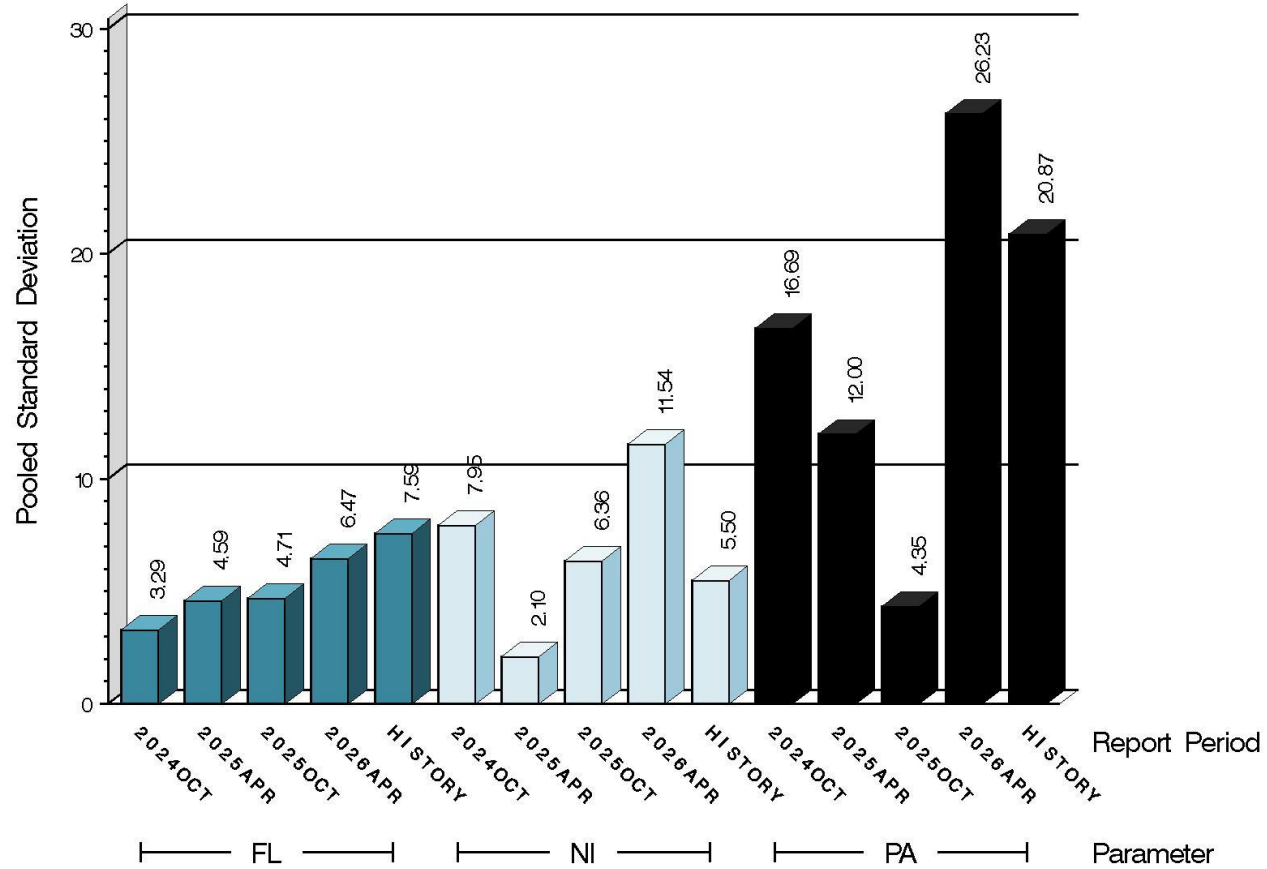


# By-Elastomer Plots



# OSCT Precision Estimates

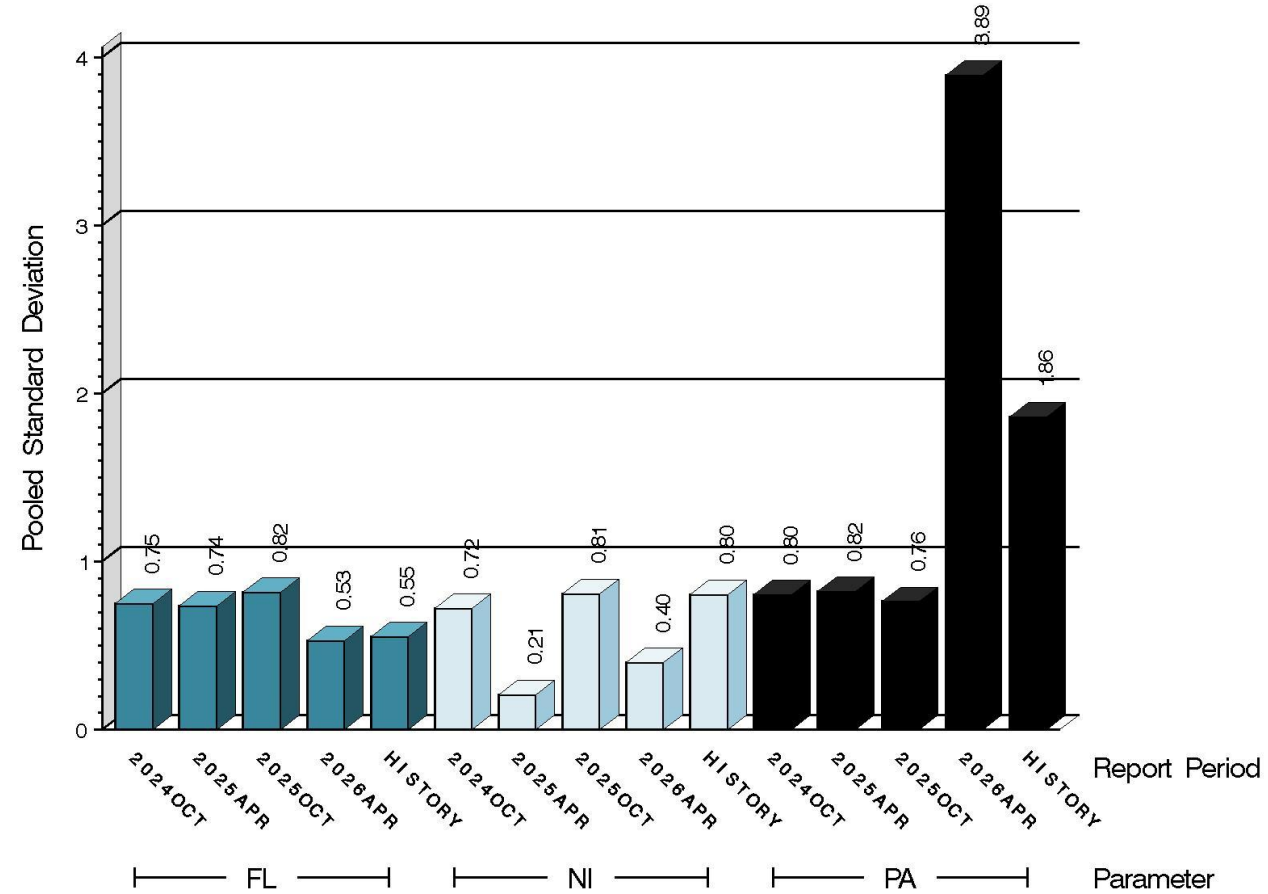
%ELONGATION PRECISION  
 POOLED STANDARD DEVIATION  
 BY SIX-MONTH ASTM REPORT PERIOD



14:31:59 08JUN2026

# OSCT Precision Estimates

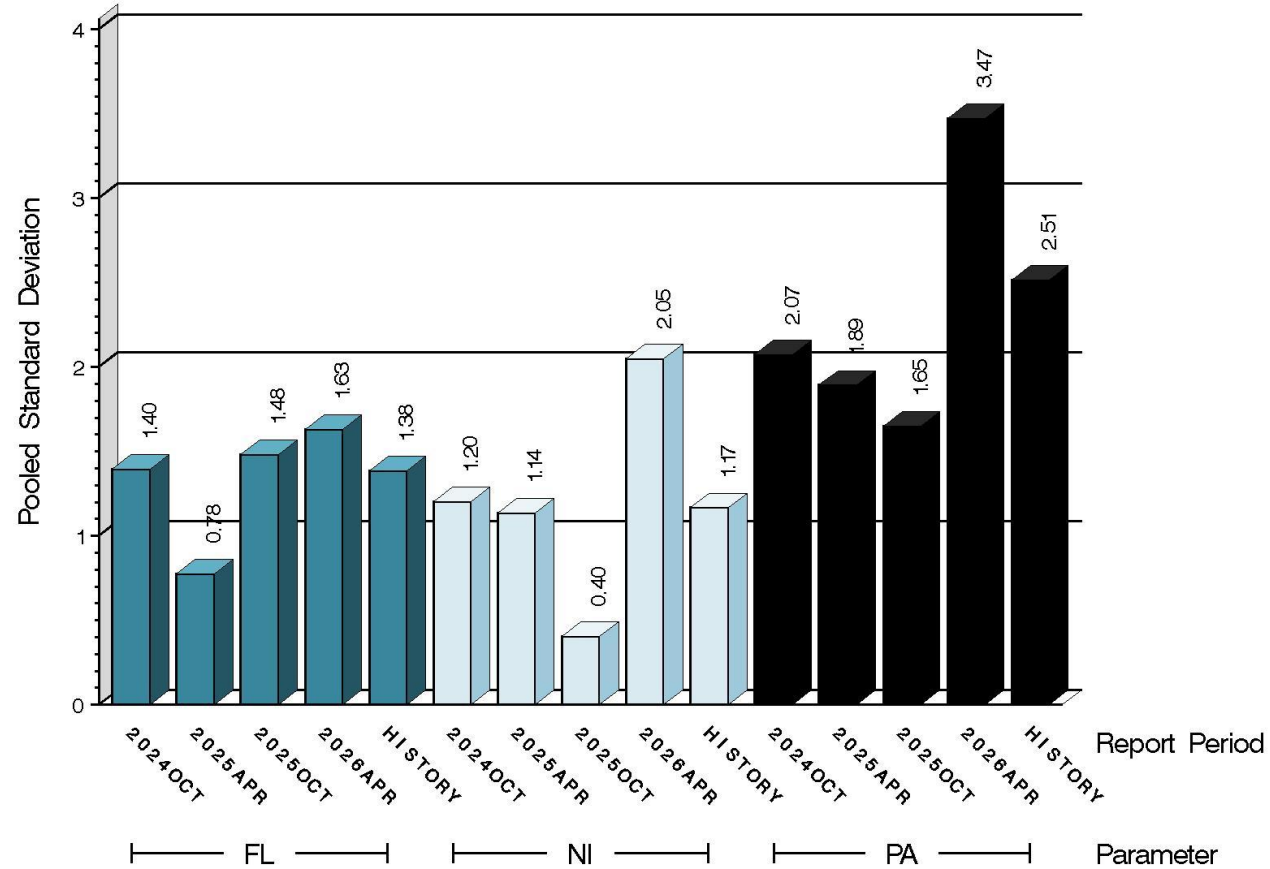
%VOLUME CHANGE PRECISION  
POOLED STANDARD DEVIATION  
BY SIX-MONTH ASTM REPORT PERIOD



14:31:59 08JUN2026

# OSCT Precision Estimates

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



14:31:59 06JUN2026

# L37 RC

➤➤ April 2026

# L37RC Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	14
Unacceptable Calibration Test	OC	22
<b>Total</b>		<b>36</b>

# L37RC Activity

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild)	OC	5
Unacceptable Calibration Test (Severe)	OC	10
Unacceptable Calibration Test (Multiple)	OC	4
Unacceptable Calibration Test (Precision)	OC	3
<b>Total</b>		<b>22</b>

# L37RC OC

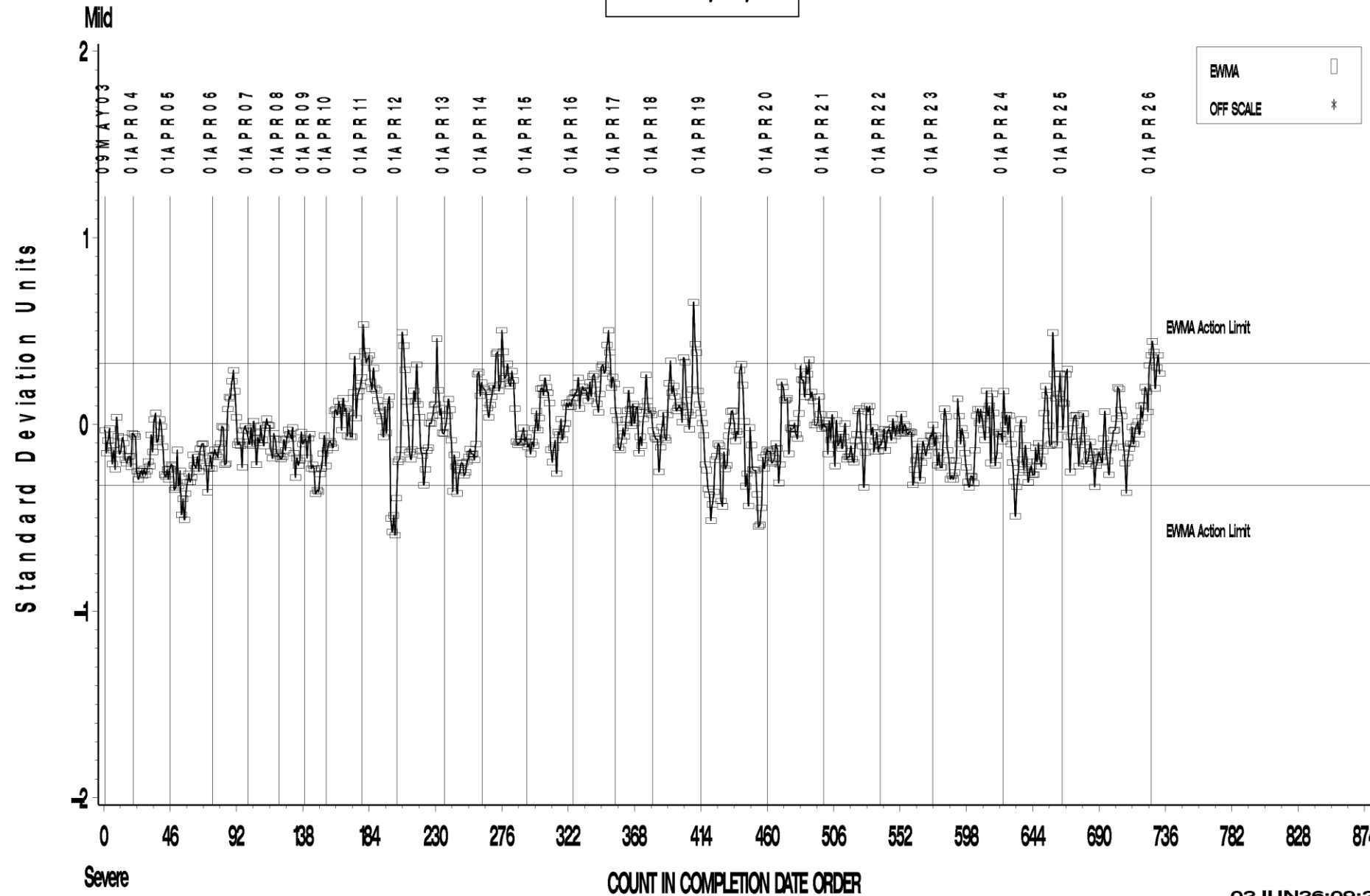
- OC Analysis:
  - Of the 22 failures, 13 (59%) are attributed to 2 raters who required multiple attempts.
  - In effort to improve, the team has been updating the procedure and adding supplemental images that better illustrate gear tooth distress.

# L37RC Test Severity

- **Severity:**
  - WEAR exceeded the action limit in the mild direction but has since retuned within limits.
  - RIDG exceeded the action limit in the severe direction but has since retuned within limits.
  - Rippling and Spit remained within limits throughout the reporting period.
- **Precision:**
  - All parameters remained within the action limit this period.

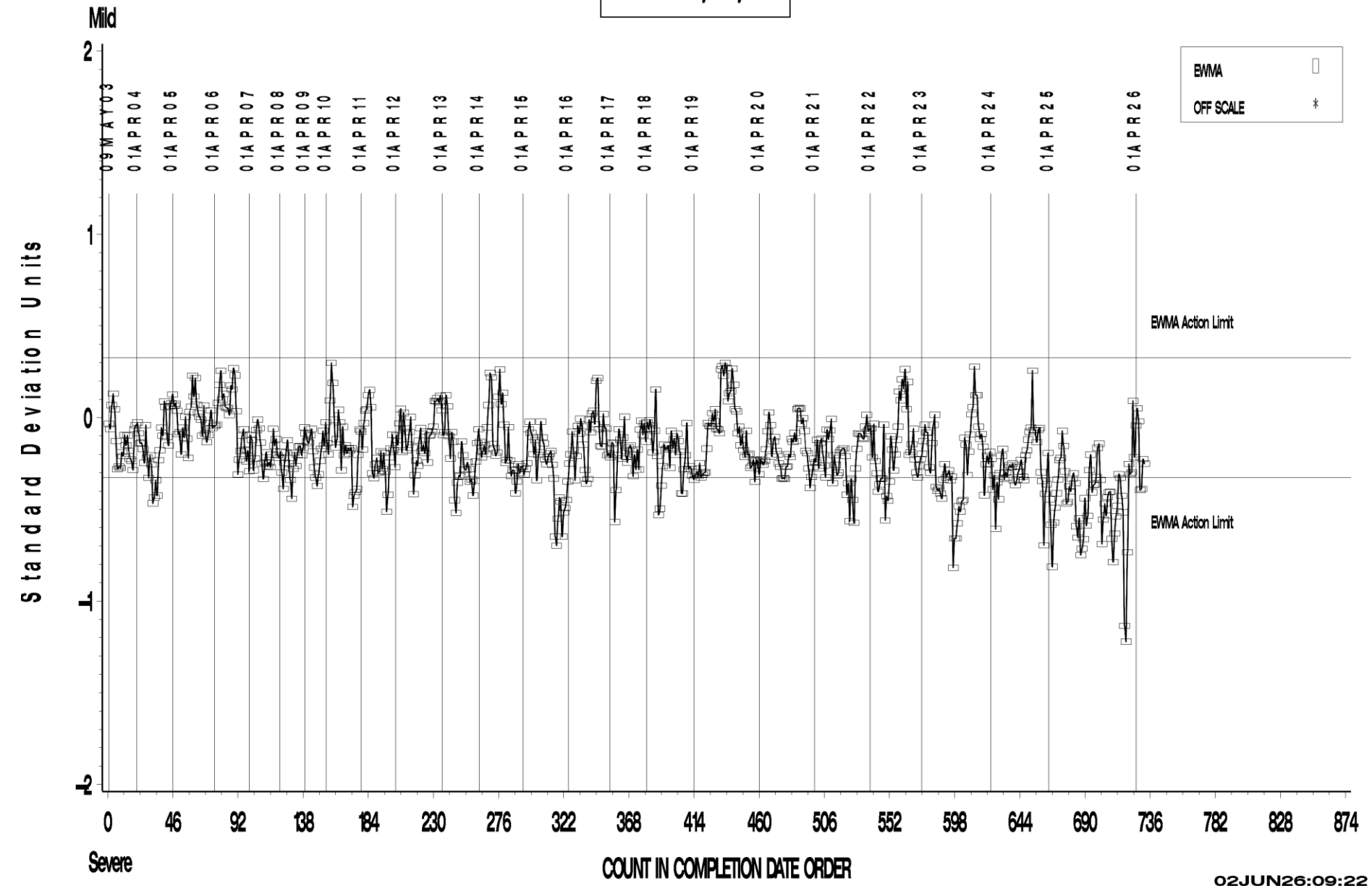
WEAR

LTMS Severity Analysis



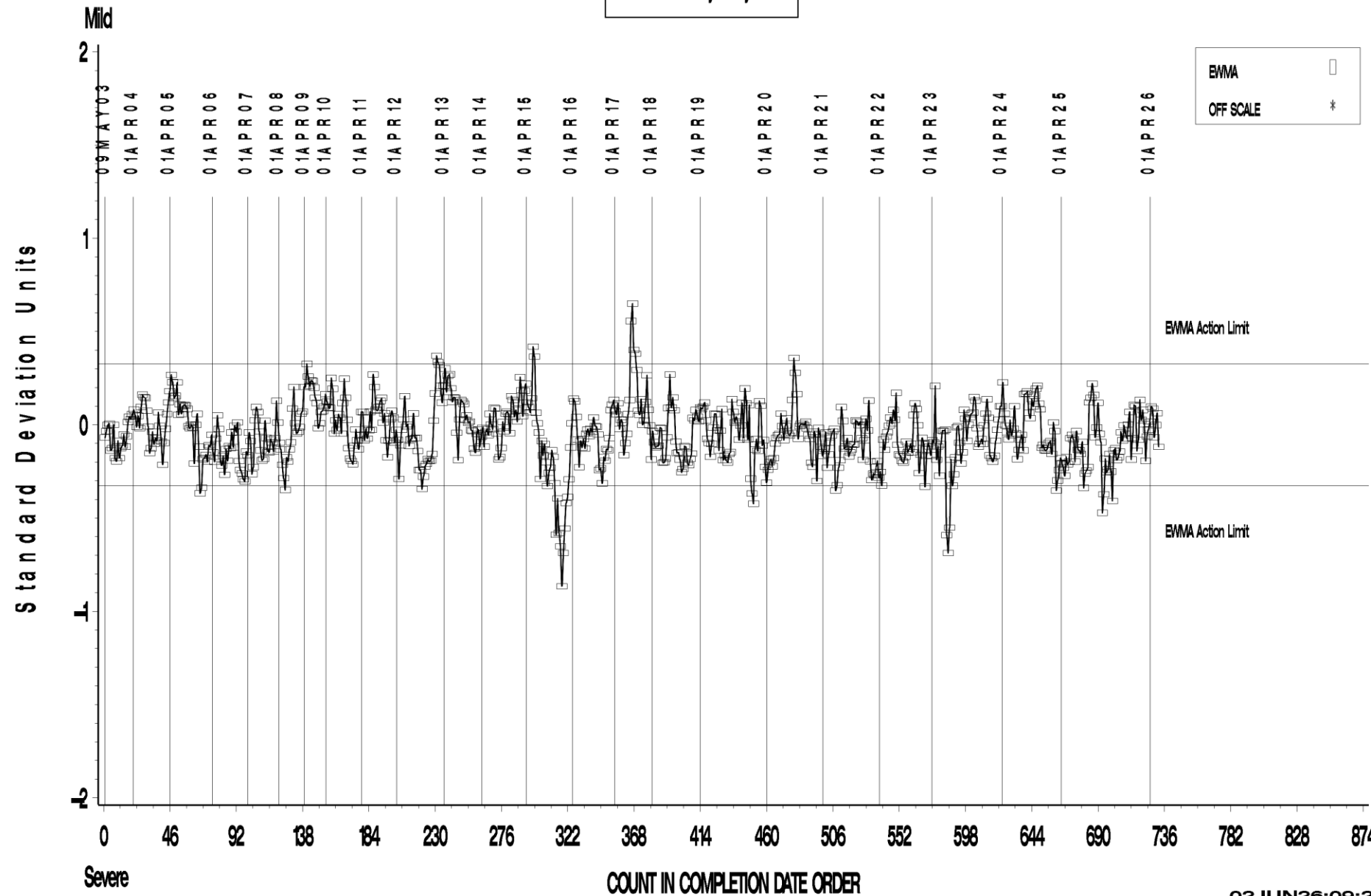
### RIDGING

LTMS Severity Analysis



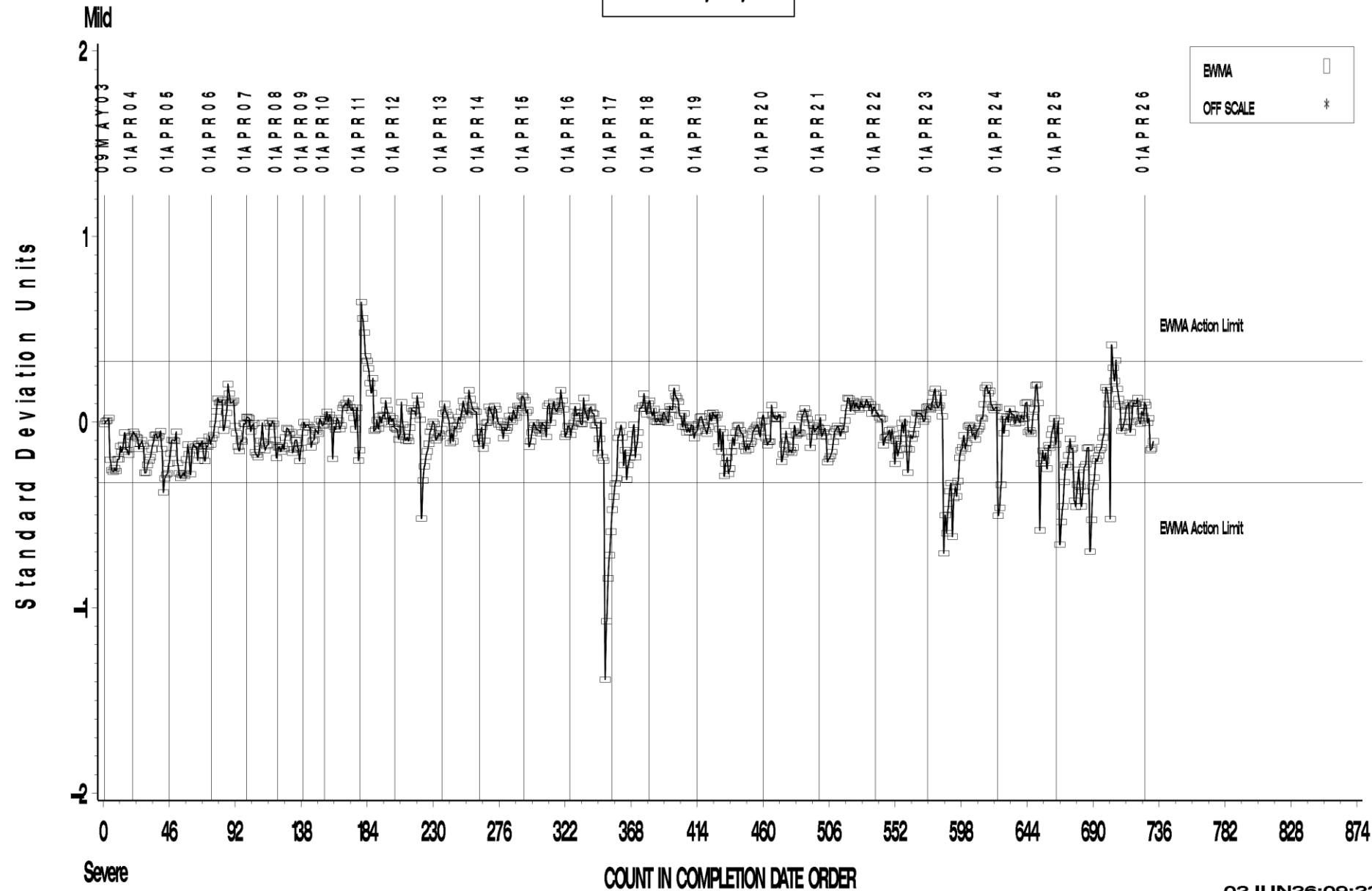
RIPPLING

LTMS Severity Analysis



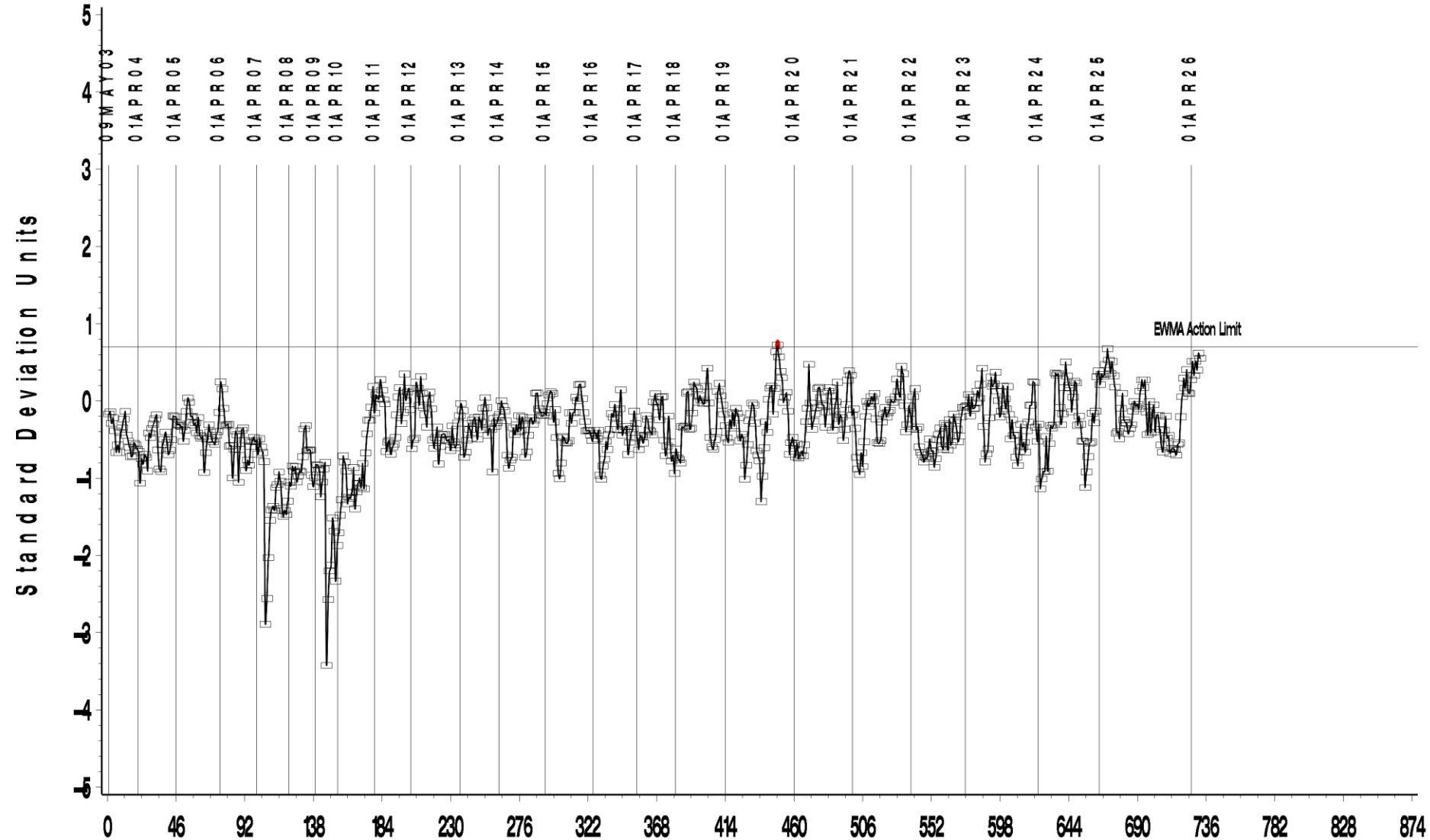
SPITTING

LTMS Severity Analysis



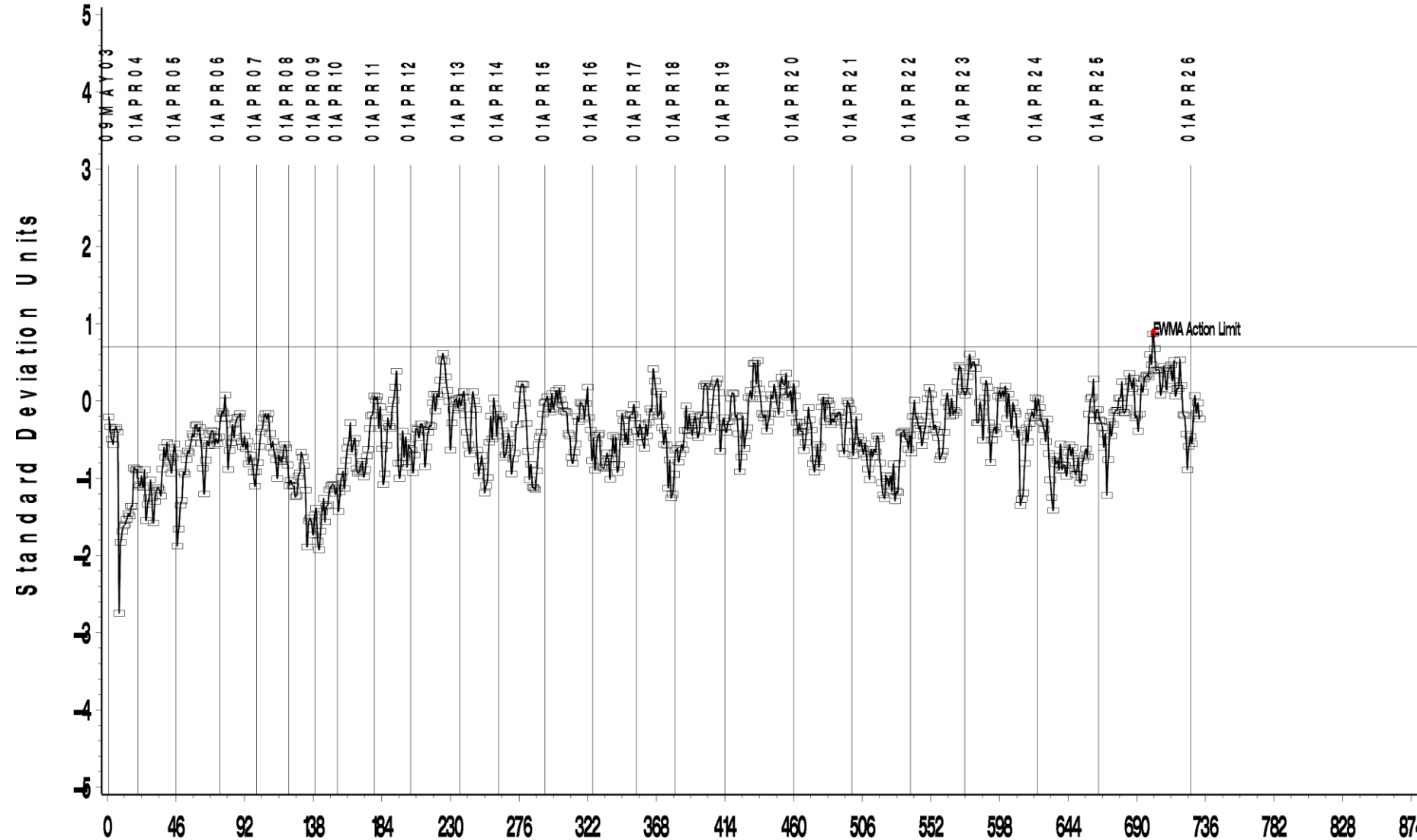
WEAR

LTMS Precision Analysis



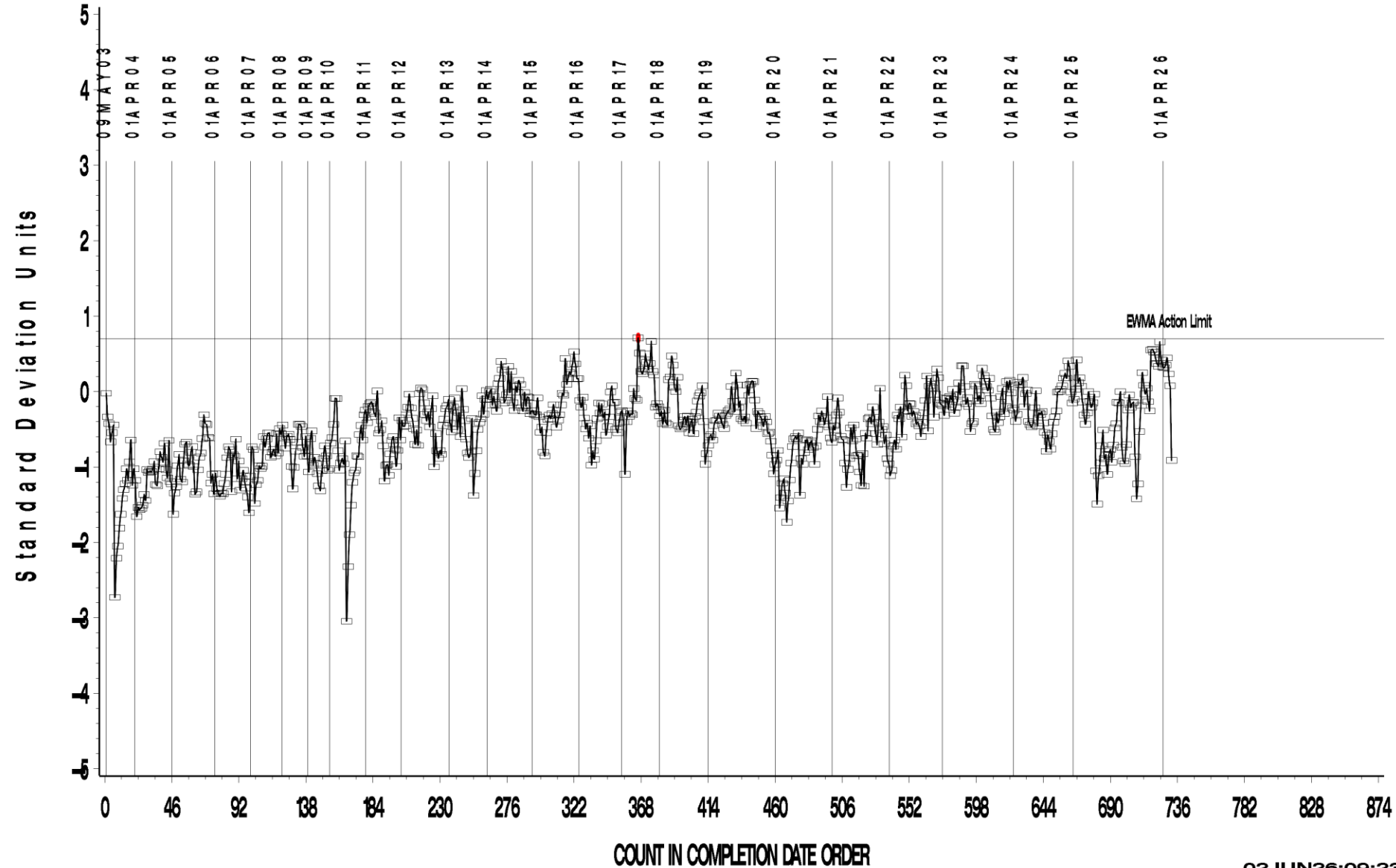
### RIPPLING

LTMS Precision Analysis



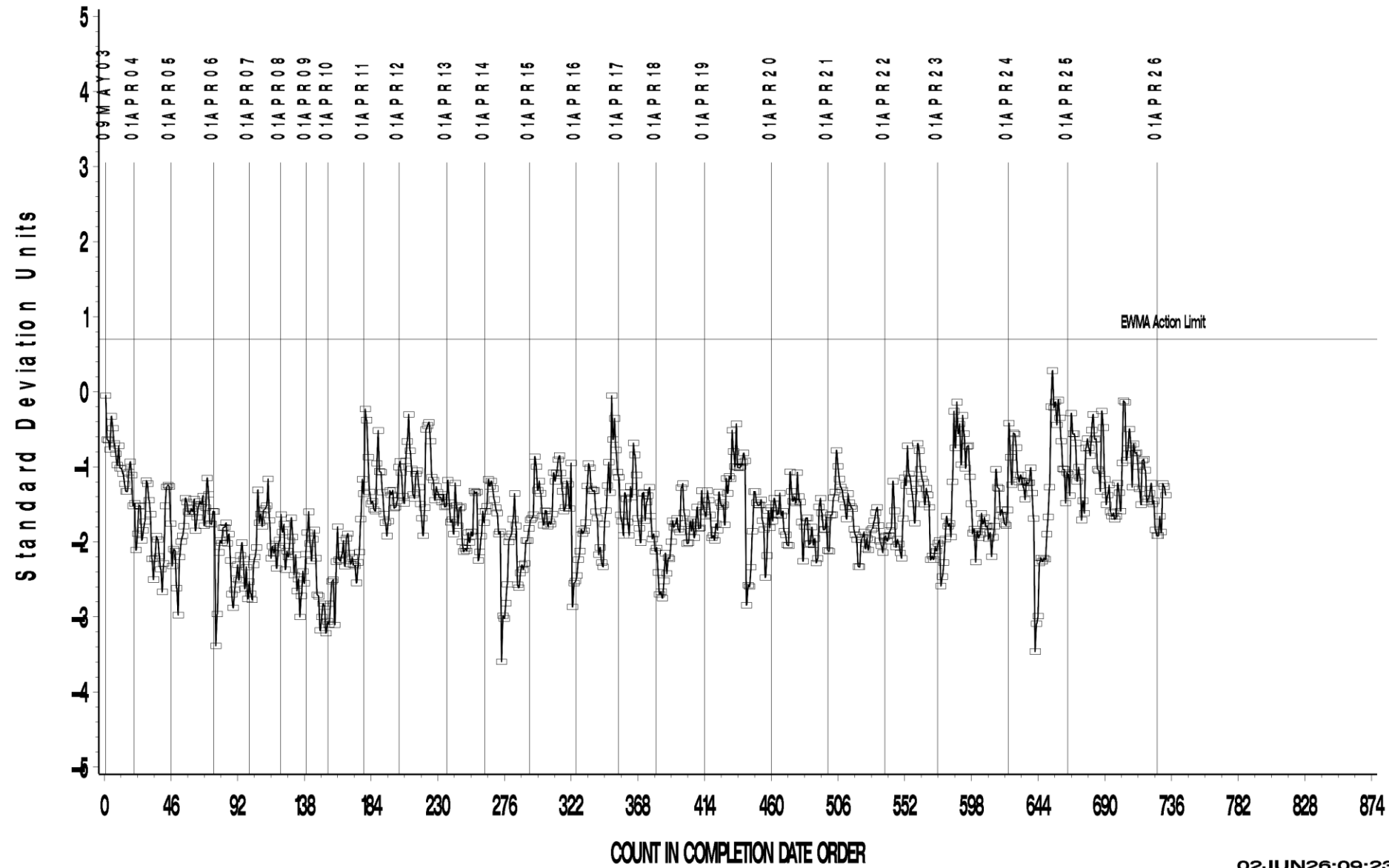
RIDGING

LTMS Precision Analysis



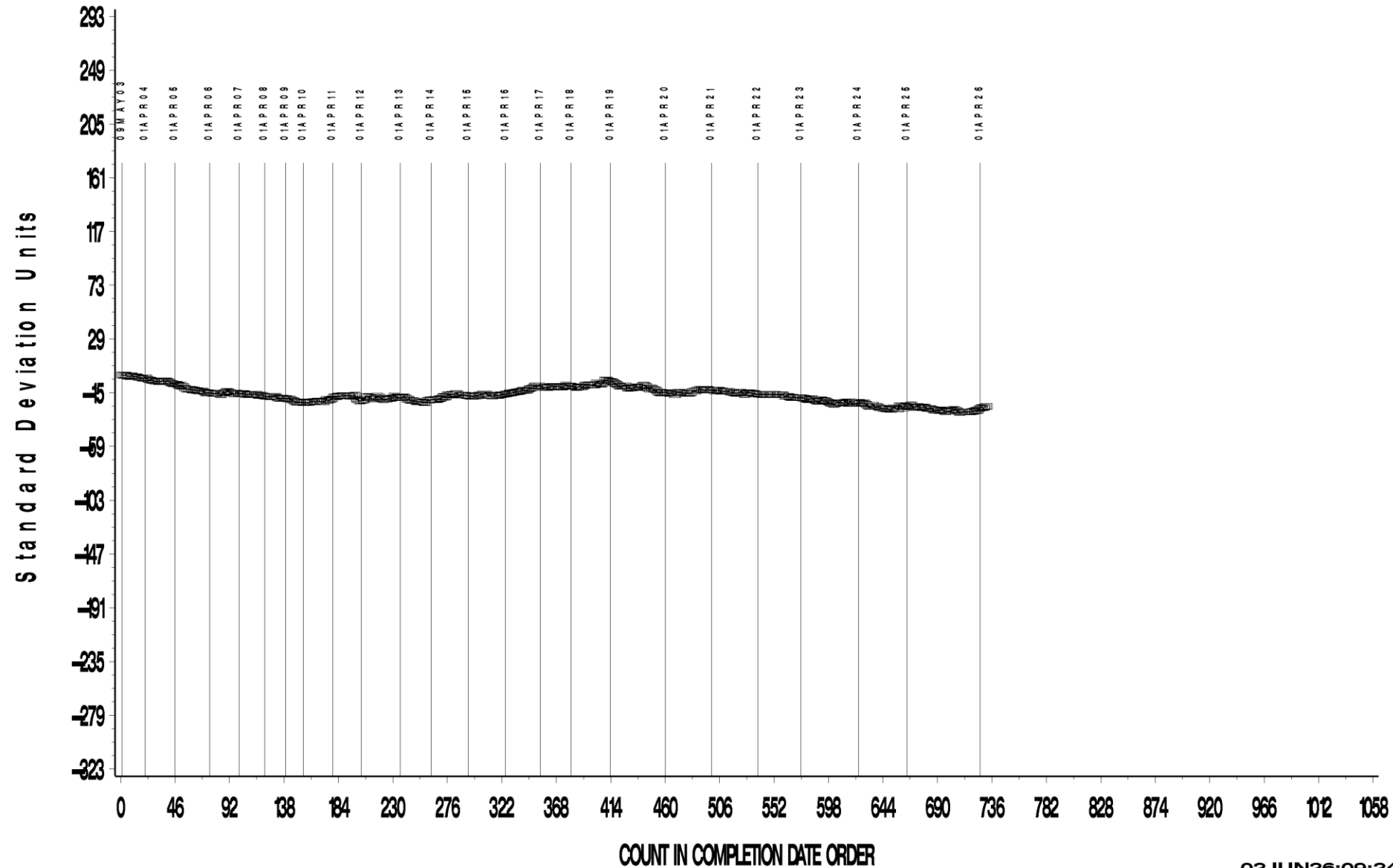
**SPITTING**

LTMS Precision Analysis



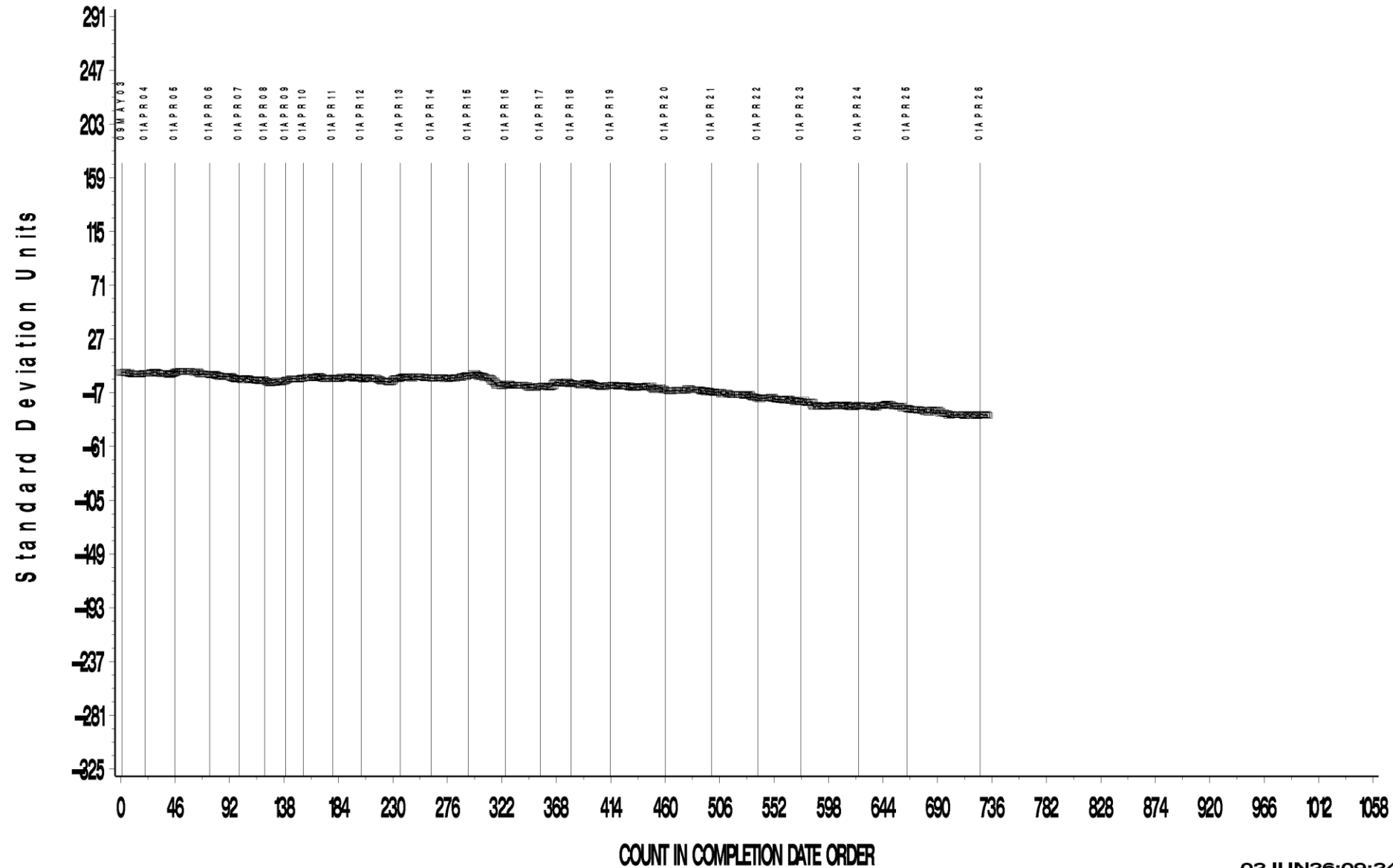
### WEAR

CUSUM Severity Analysis



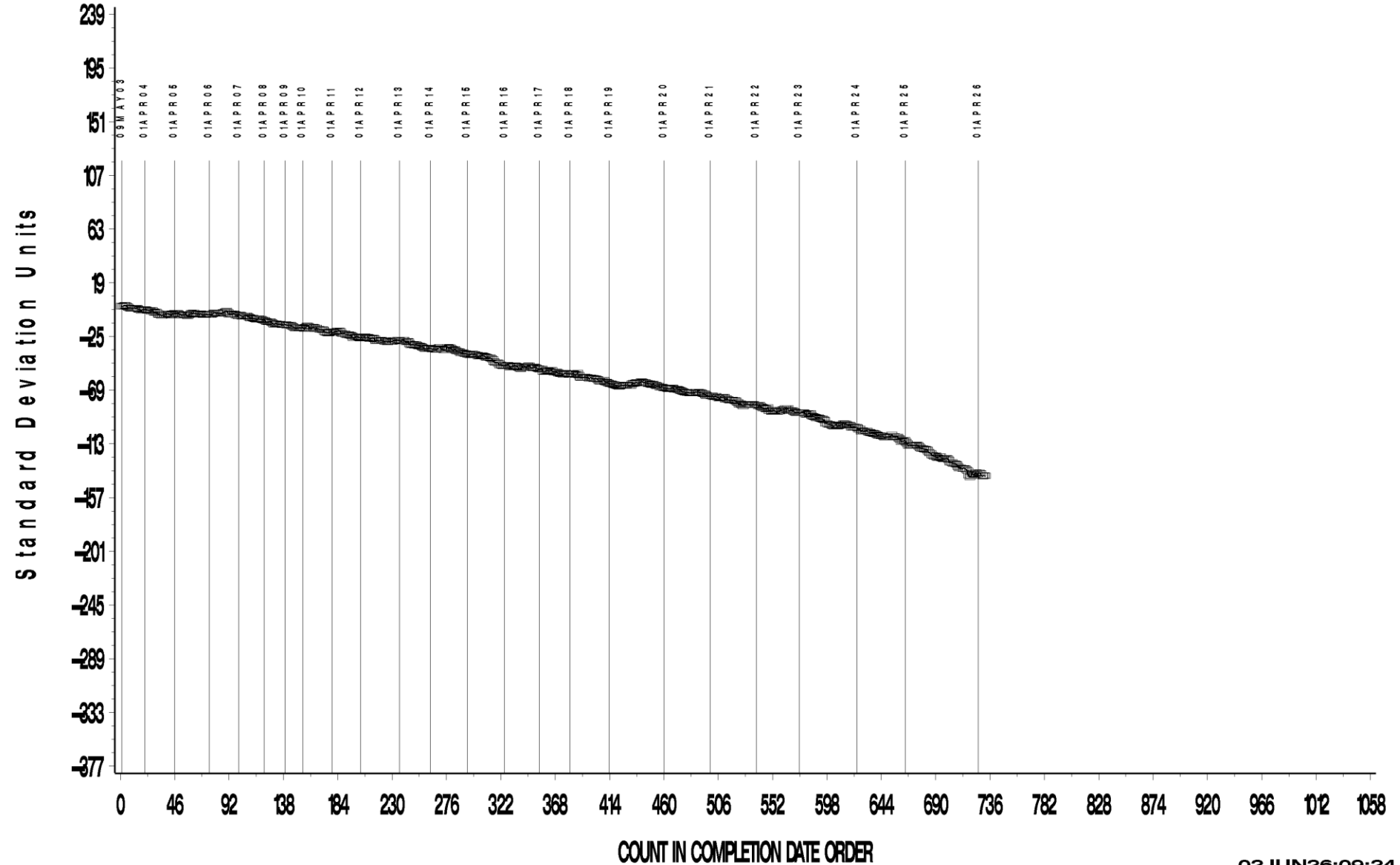
### RIPPLING

CUSUM Severity Analysis



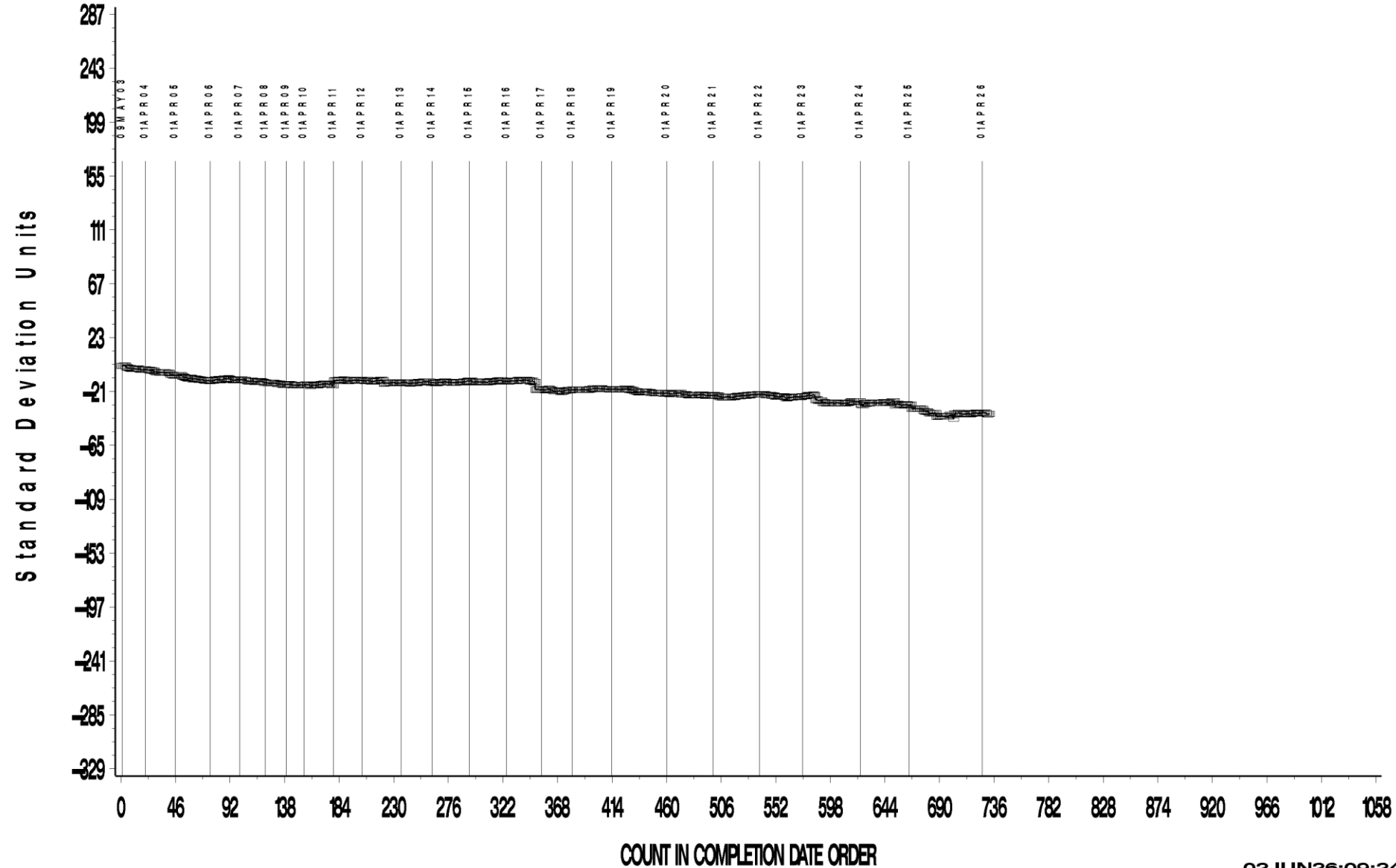
### RIDGING

CUSUM Severity Analysis



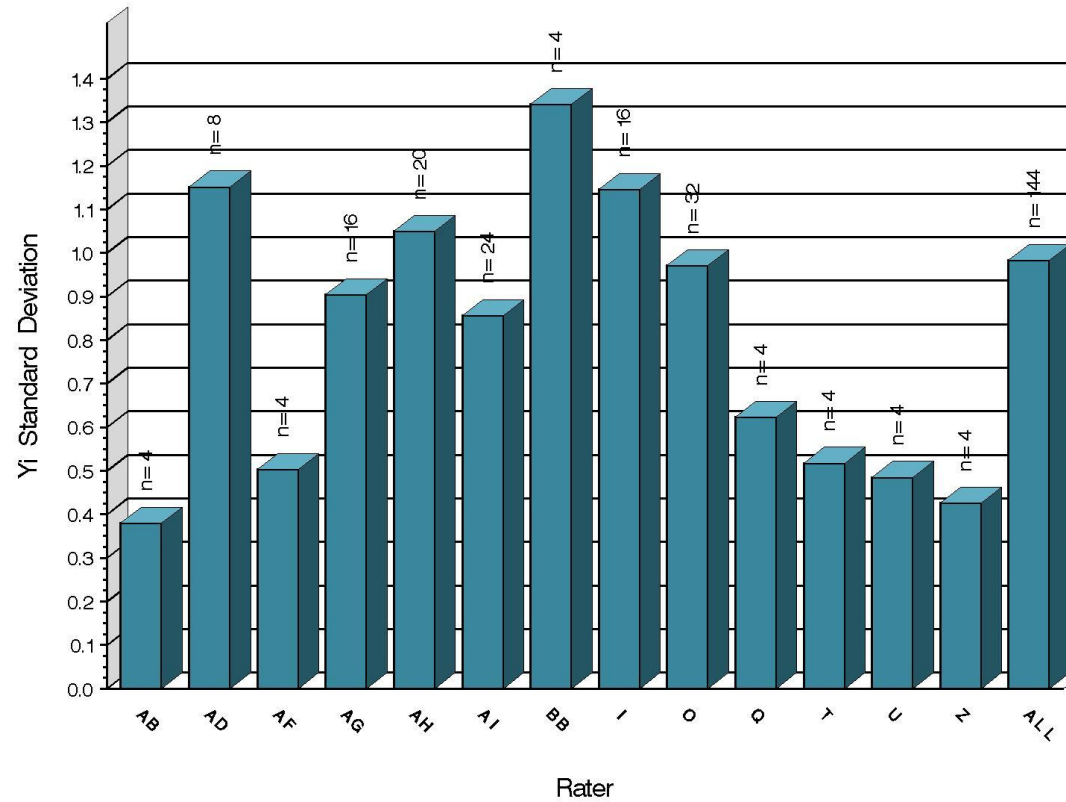
### SPITTING

CUSUM Severity Analysis



# L37RC Precision Estimates

WEAR  
Precision as Measured by Y1 STD



10:39:11 09JUN2026

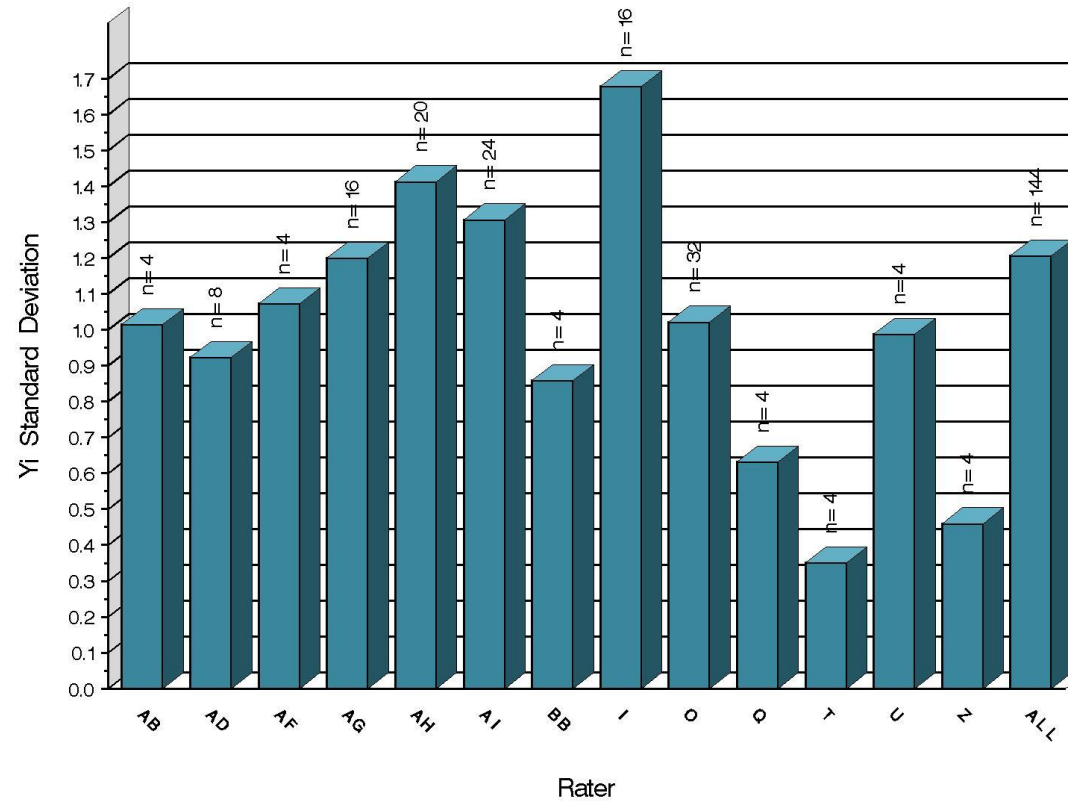
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**Test Monitoring Center**  
<https://www.astmtmc.org>



# L37RC Precision Estimates

RIPPLING  
Precision as Measured by Yi STD



10:39:11 03JUN2026

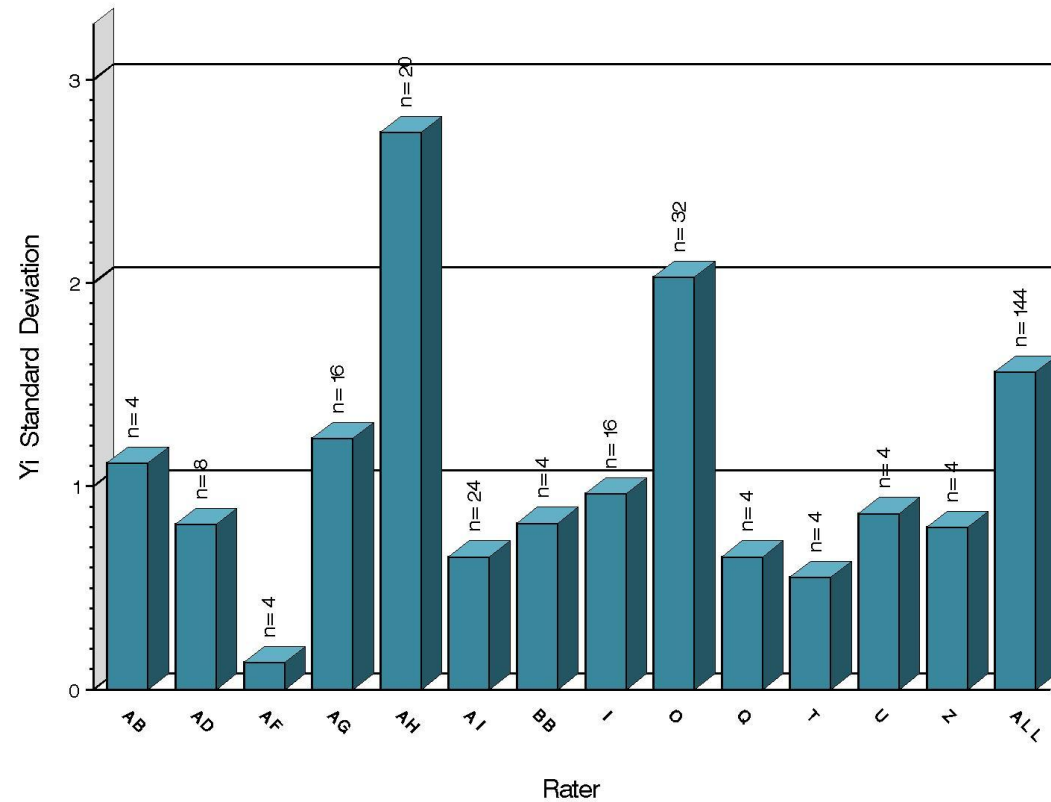
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# L37RC Precision Estimates

RIDGING  
Precision as Measured by Yi STD



10:39:11 03JUN2025

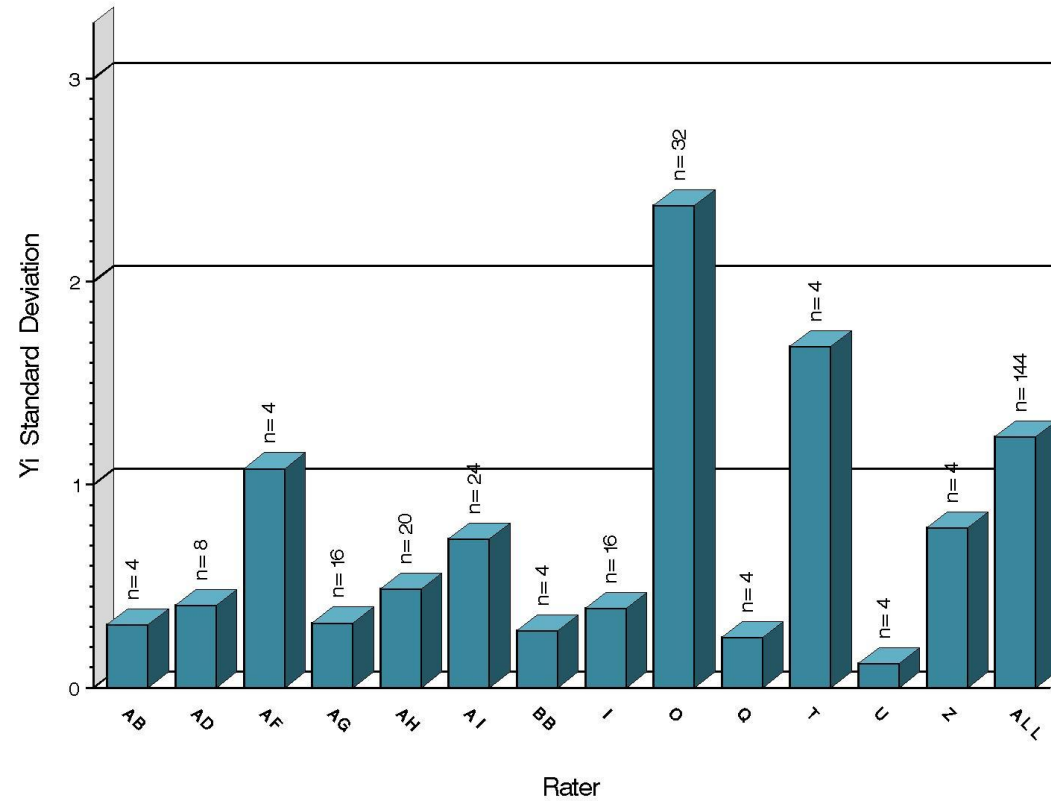
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# L37RC Precision Estimates

SPITTING  
Precision as Measured by Y1 STD



10:39:11 03JUN2025

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# L42RC

»» April 2026

# L42RC Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	12
Unacceptable Calibration Test	OC	9
<b>Total</b>		<b>21</b>

# L42RC – Failed Test

Test Status	Validity Code	#
Unacceptable Calibration Test (Mild)	OC	4
Unacceptable Calibration Test (Multiple)	OC	2
Unacceptable Calibration Test (Precision)	OC	3
<b>Total</b>		<b>9</b>

# L42RC OC

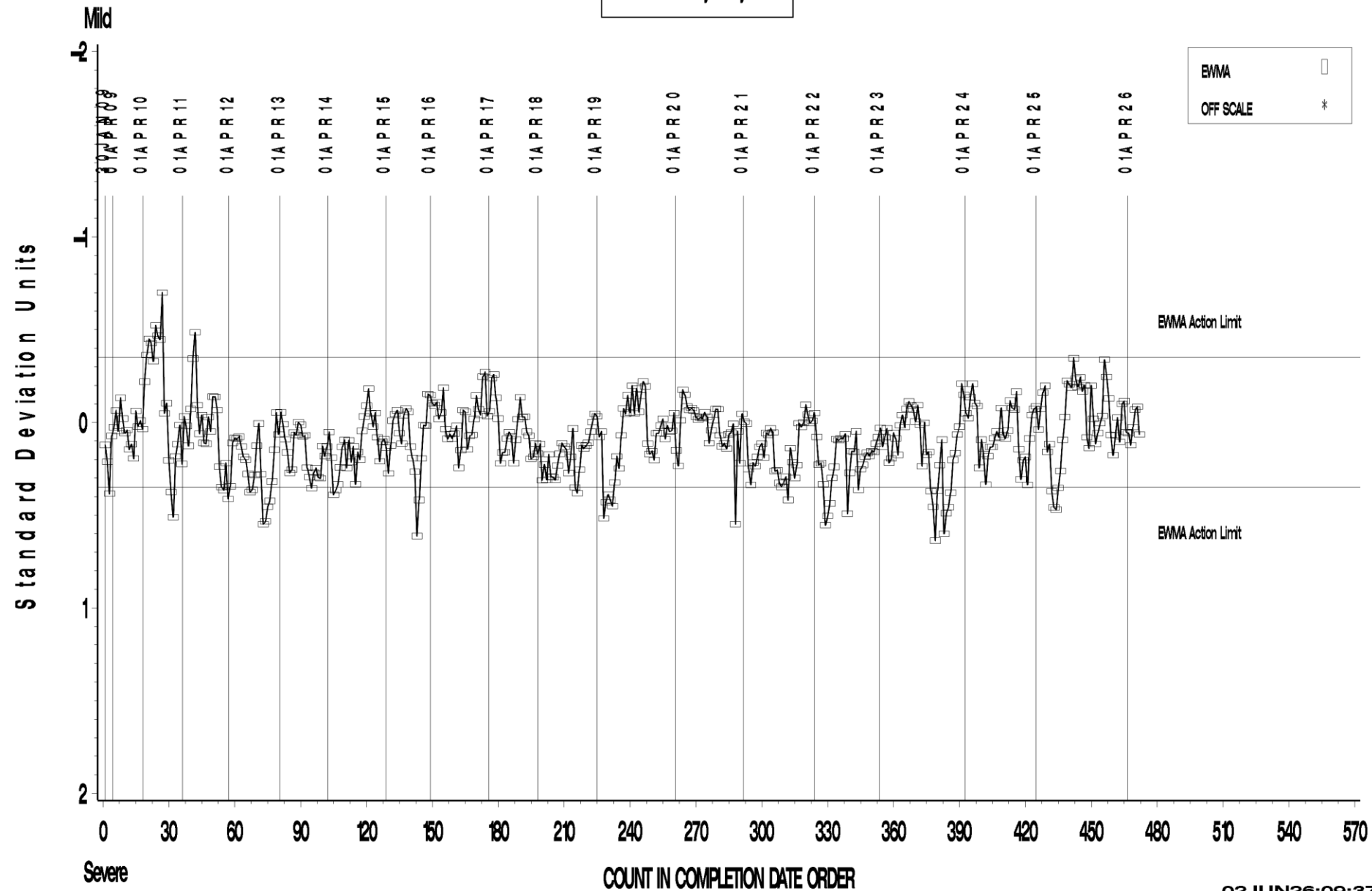
- OC Analysis:
  - Of the 9 failures, 6 (66%) are attributed to 1 rater who required multiple attempts.

# L42RC Test Severity

- Severity:
  - All parameters remained within the limits this reporting period.
- Precision:
  - All parameters remained within the limits this reporting period.

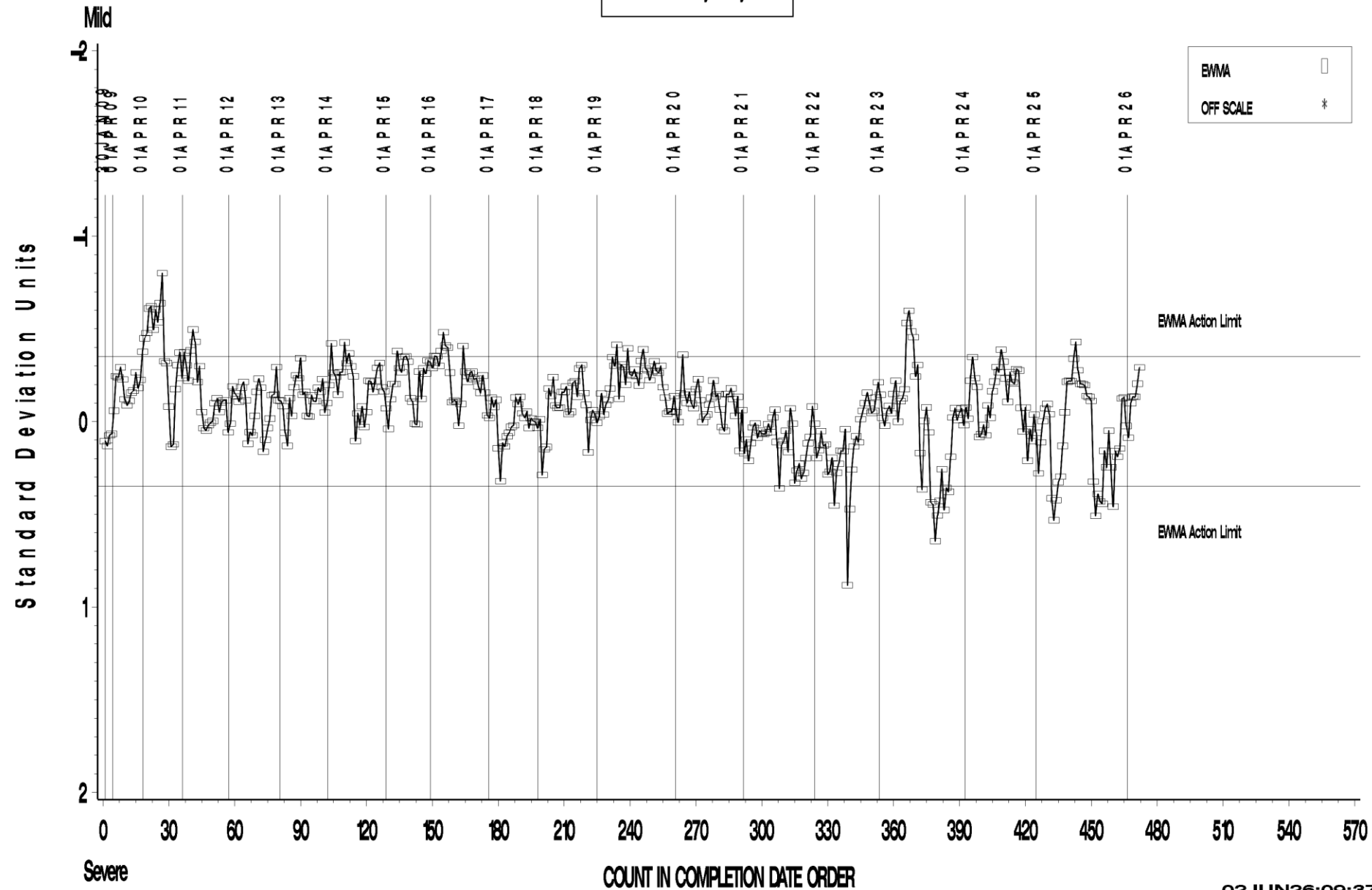
### PINION SCORING

LTMS Severity Analysis



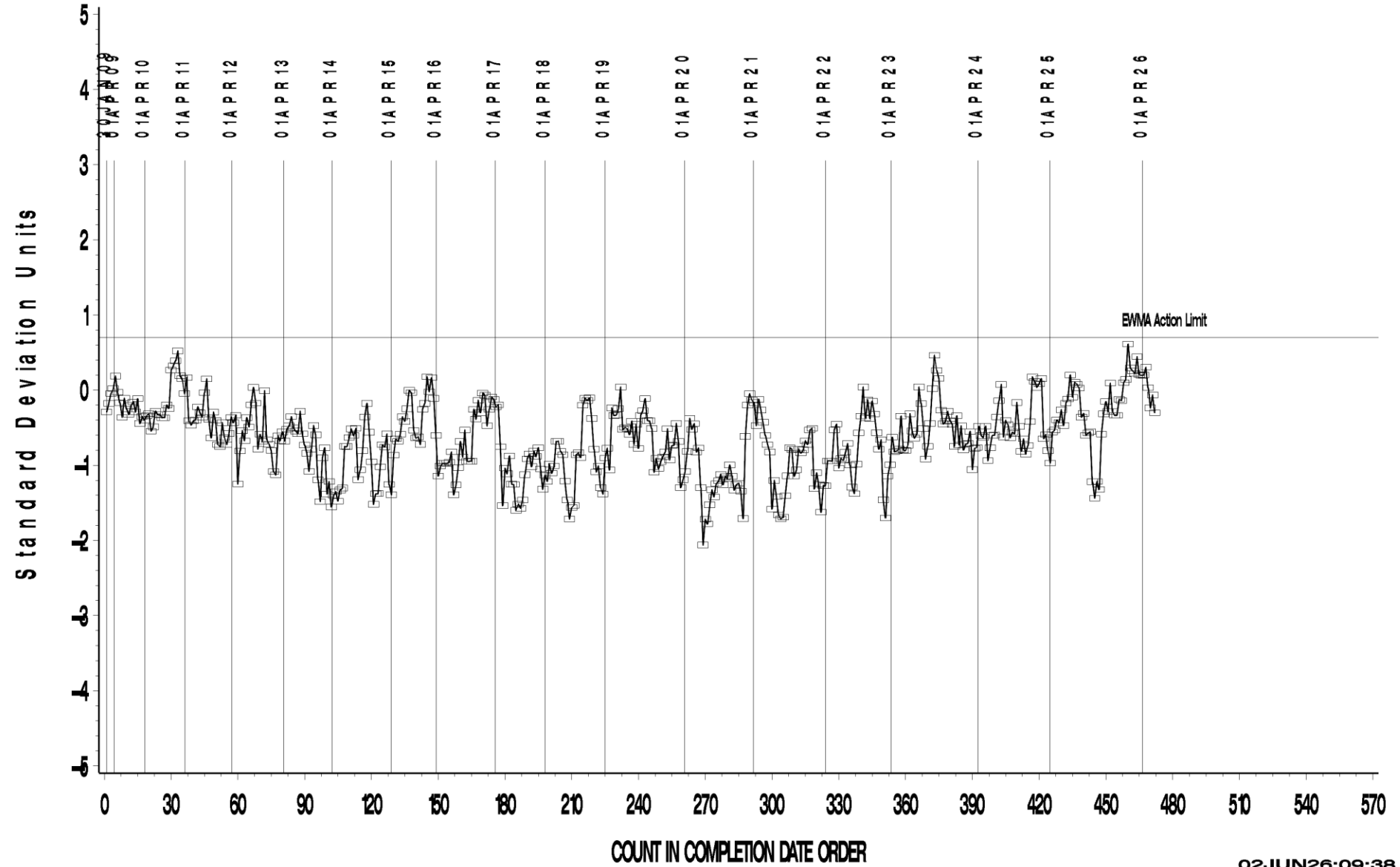
### RING SCORING

LTMS Severity Analysis



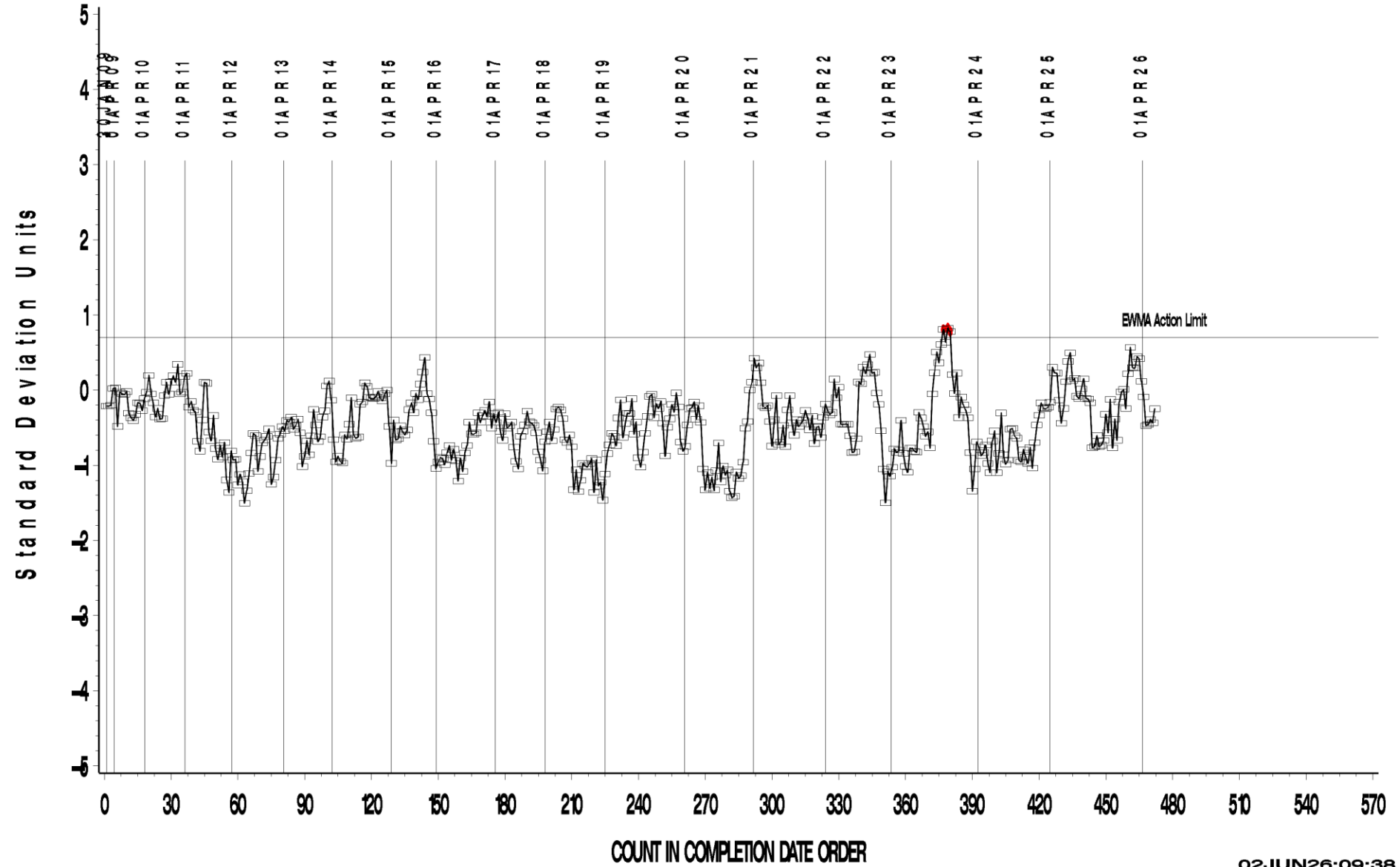
### PINION SCORING

LTMS Precision Analysis



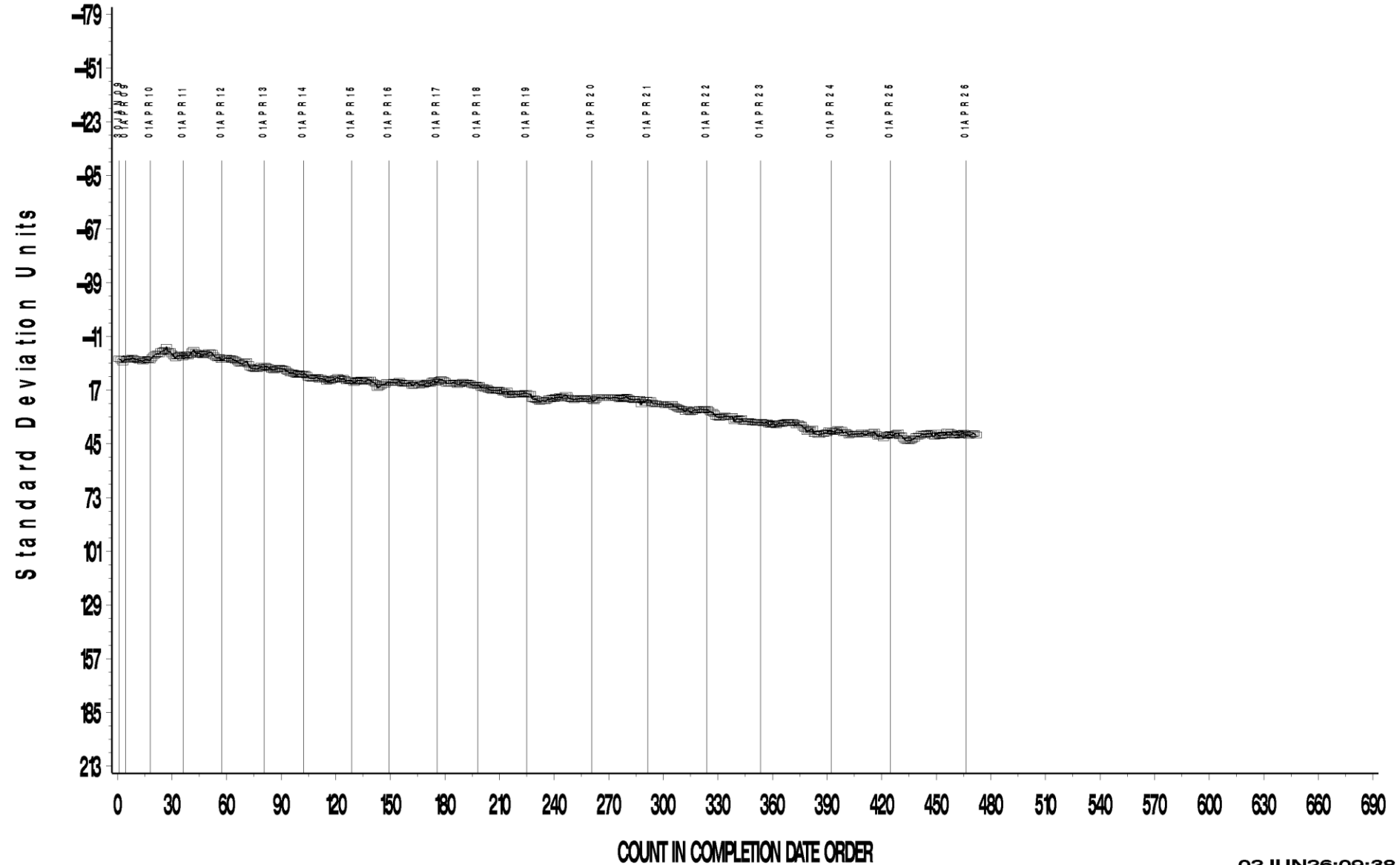
### RING SCORING

LTMS Precision Analysis



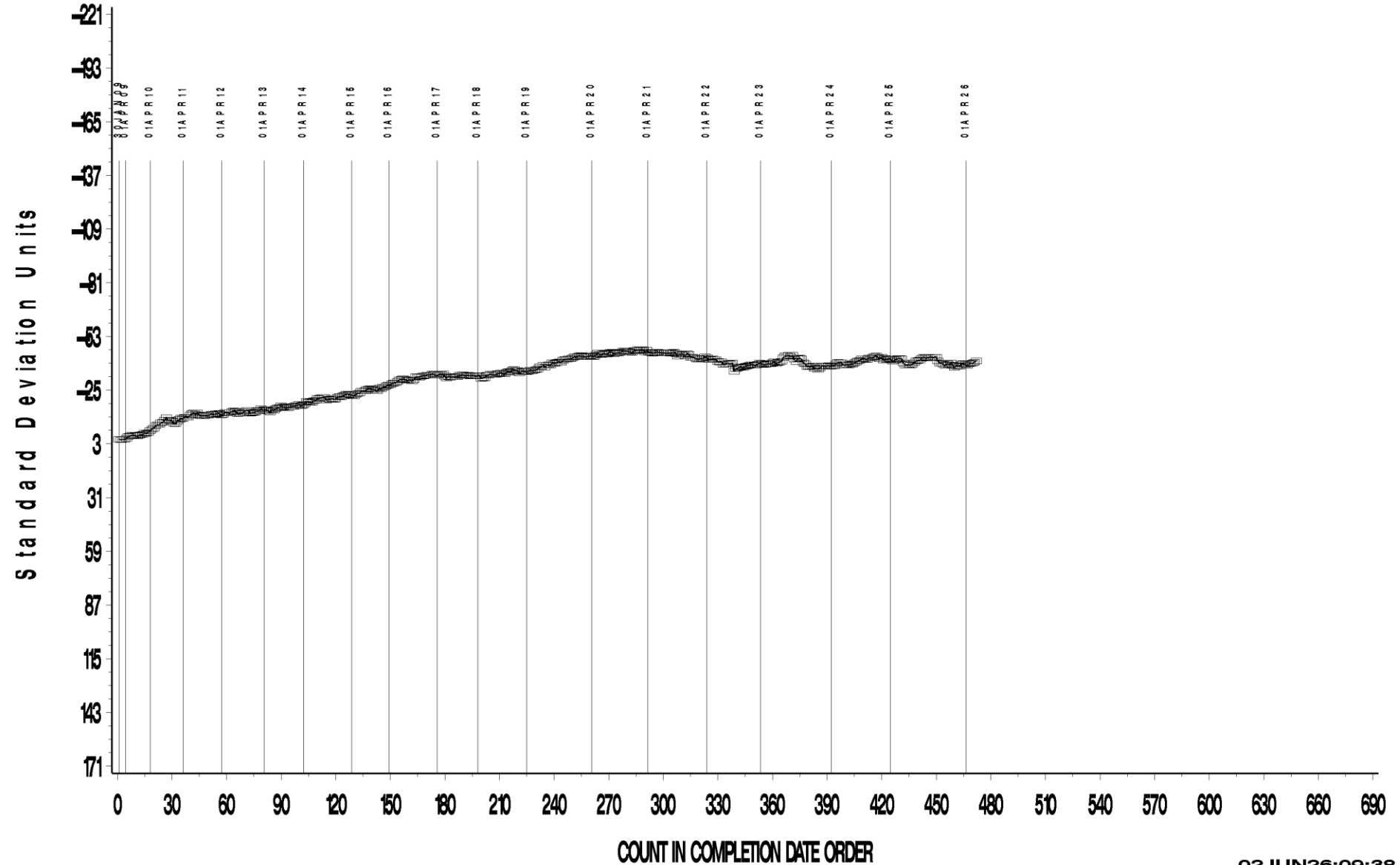
### PINION SCORING

CUSUM Severity Analysis



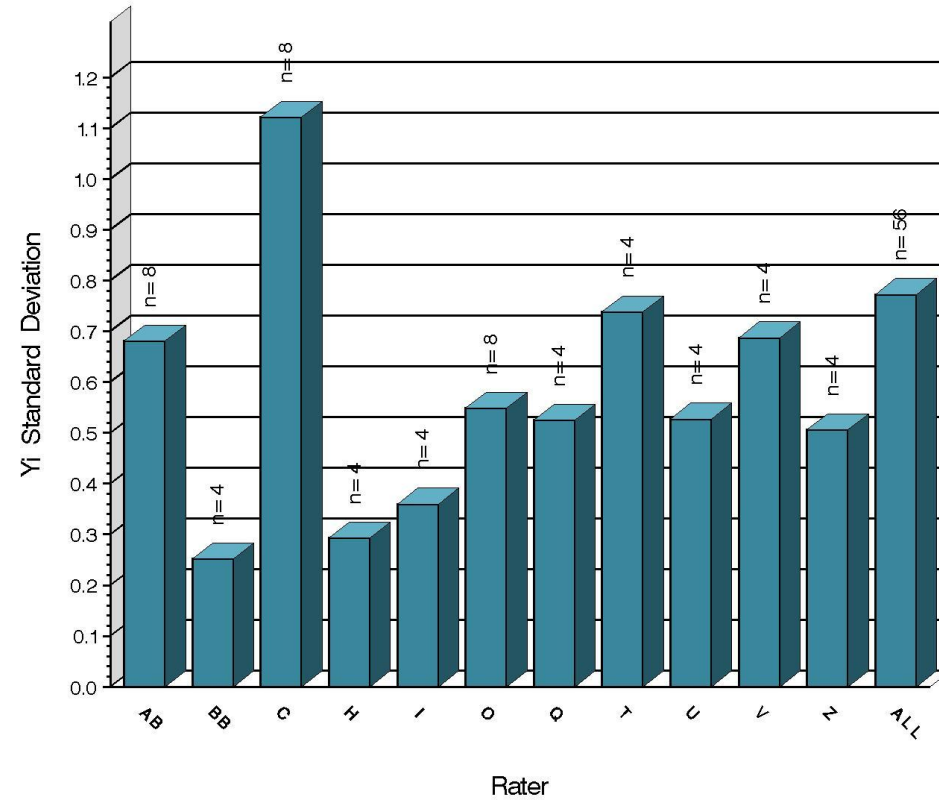
### RING SCORING

CUSUM Severity Analysis



# L42RC Pinion Scoring Estimates

PINION SCORING  
Precision as Measured by Yi STD



10:35:46 28OCT2022

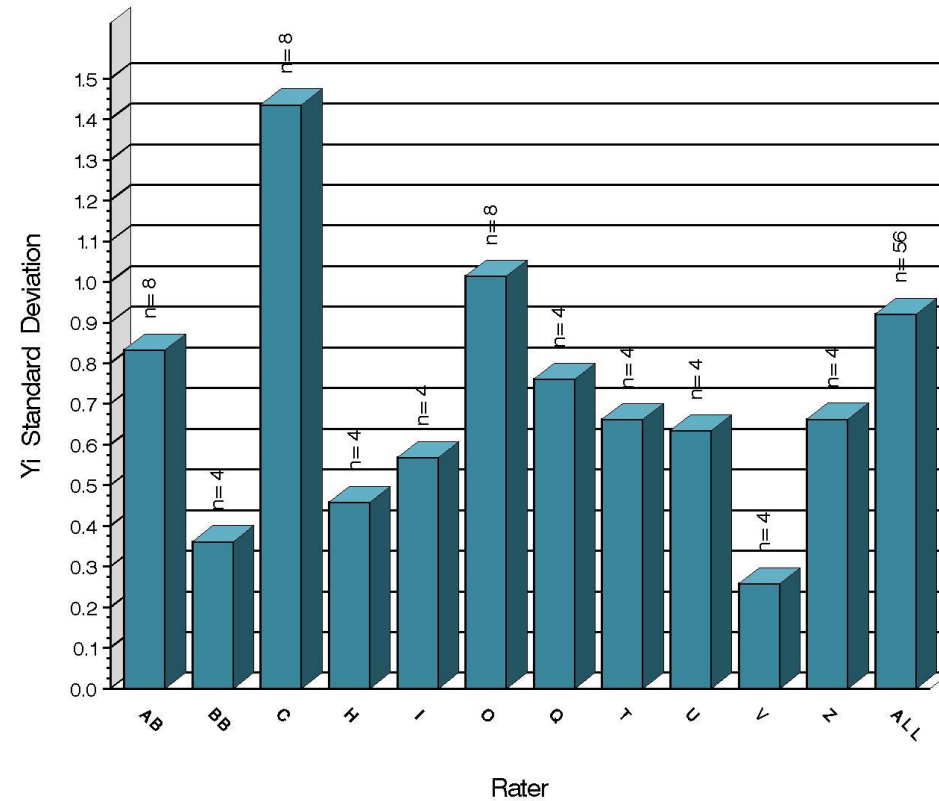
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# L42RC Ring Scoring Estimates

RING SCORING  
Precision as Measured by Yi STD



10:35:46 28OCT2022

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# L-60-1

➤➤ April 2026

# L-60-1 Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	19
Failed Calibration Test	OC	9
Operationally Invalid Calibration Test	LC	5
Acceptable Information Run	NI	9
Operationally Invalid Information Run	NN	1
Total		43

# L-60-1 Failed Tests

Test Status	Validity Code	#
Failed Calibration Test (Mild)	OC	1
Failed Calibration Test (Severe)	OC	4
Failed Calibration Test (Multiple)	OC	2
Failed Calibration Test (Precision)	OC	2
Total		9

# L-60-1 – Lost Tests

Test Status	Validity Code	#
Oil Loss	LC	2
Post test analytic error	LC	1
Airflow supply loss	LC	1
Post tests analytics performed after 48hrs	LC	1
Total		5

# L-60-1 – Industry Run

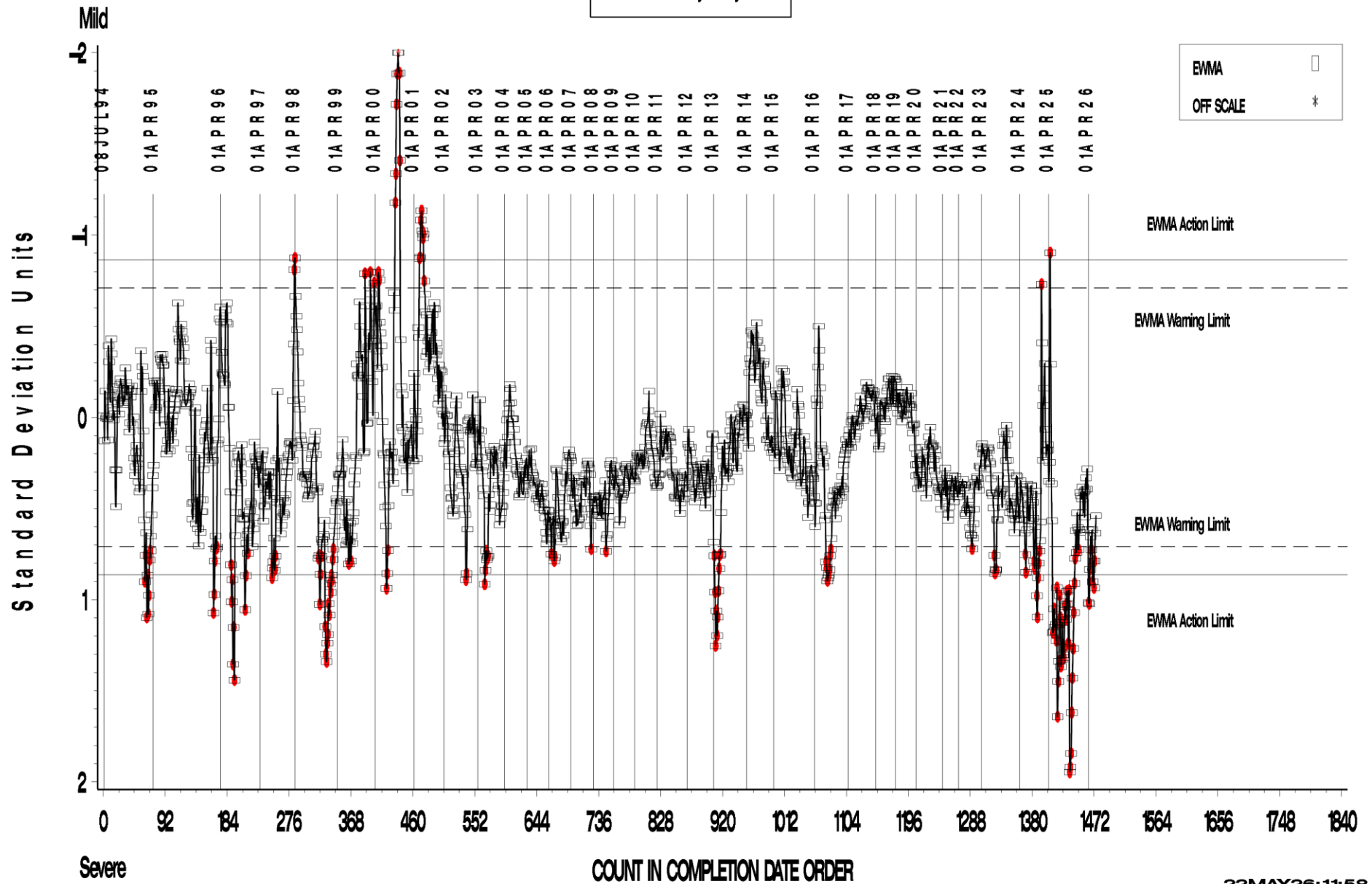
Test Status	Validity Code	#
Shakedown	NN	1
Donated Hardware Runs	NI	9
Total		10

# L-60-1 Test Severity

- **Severity:**
  - VISI and ACV outside the action limit in the severe direction but finished the reporting period within the limits.
  - PEN and TOL had several test outside the action limit in the mild direction. Finished the period only exceeding the warning limit.
- **Precision:**
  - AVC and ASL exceeded the action limits this period, but finished within the limits.

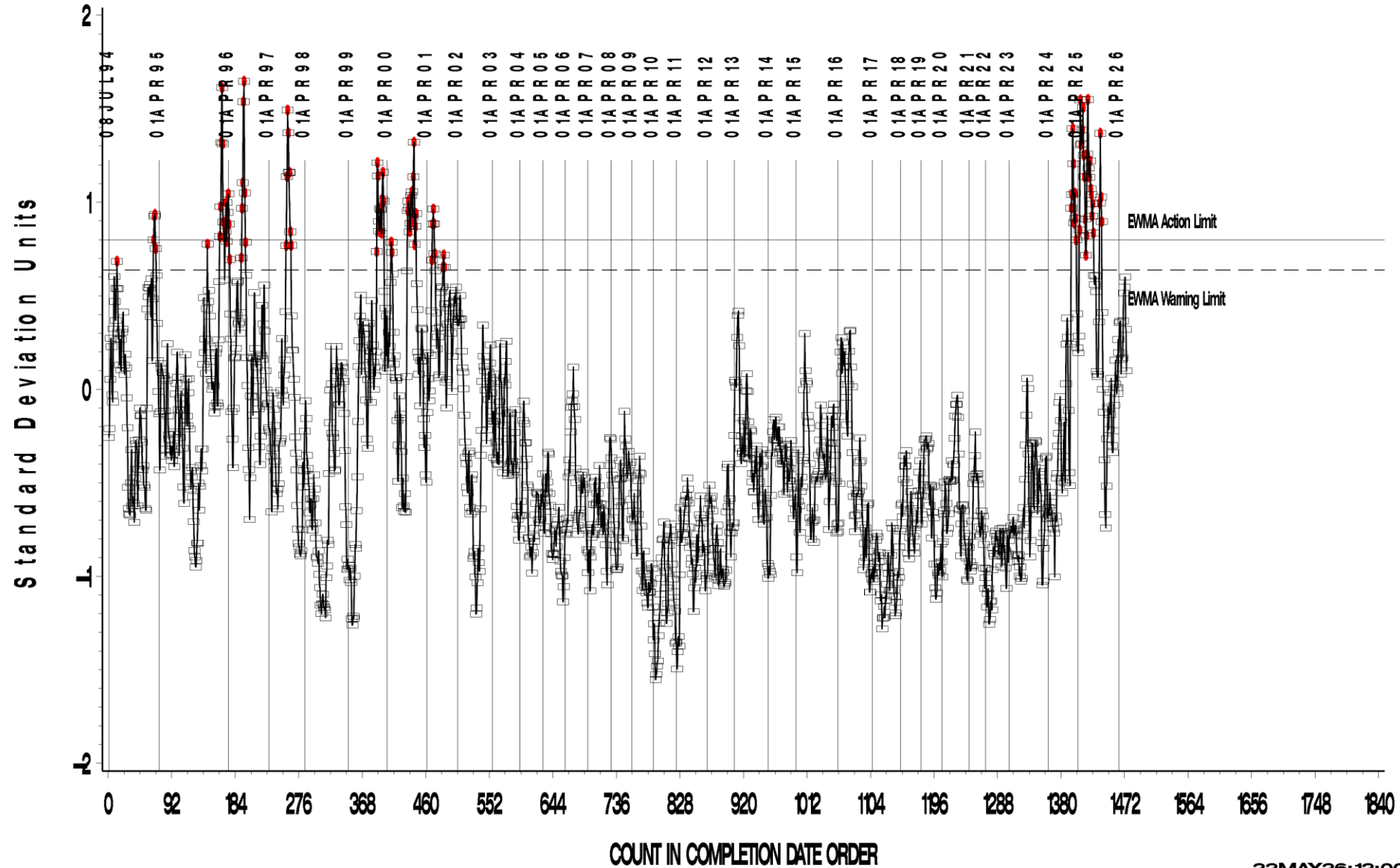
REF. FINAL VISCOSITY INCREASE

LTMS Severity Analysis



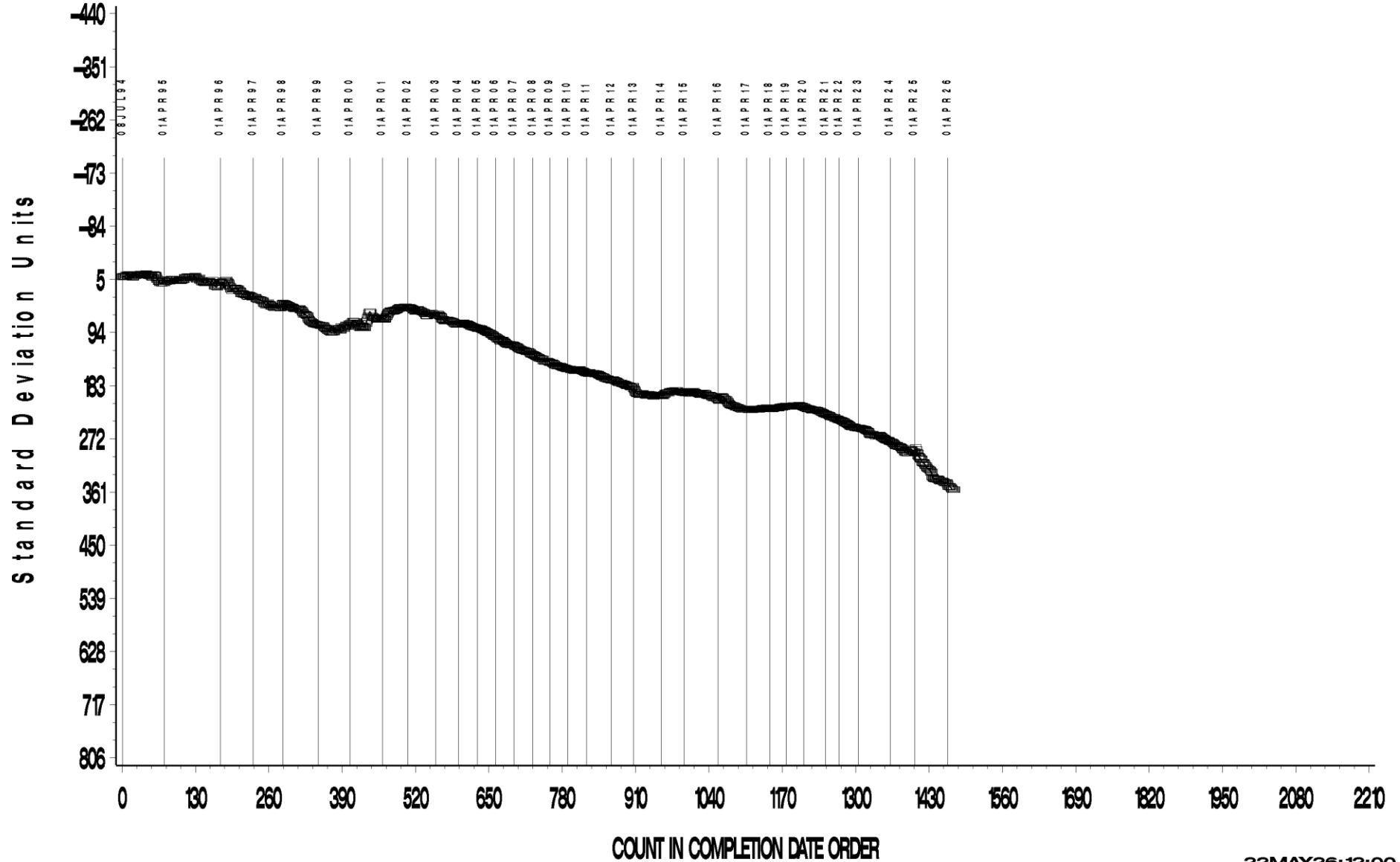
REF. FINAL VISCOSITY INCREASE

LTMS Precision Analysis



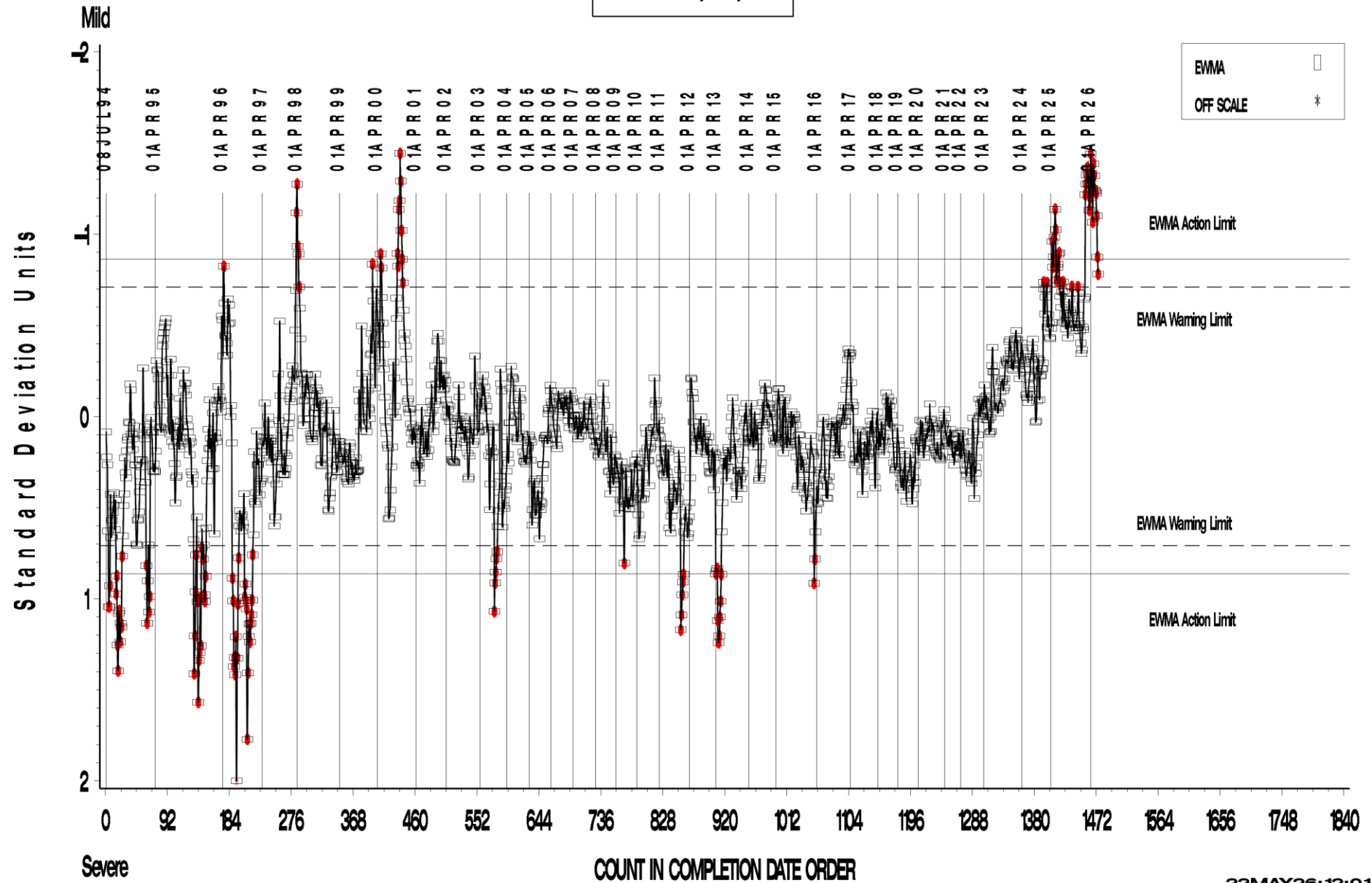
REF. FINAL VISCOSITY INCREASE

CUSUM Severity Analysis



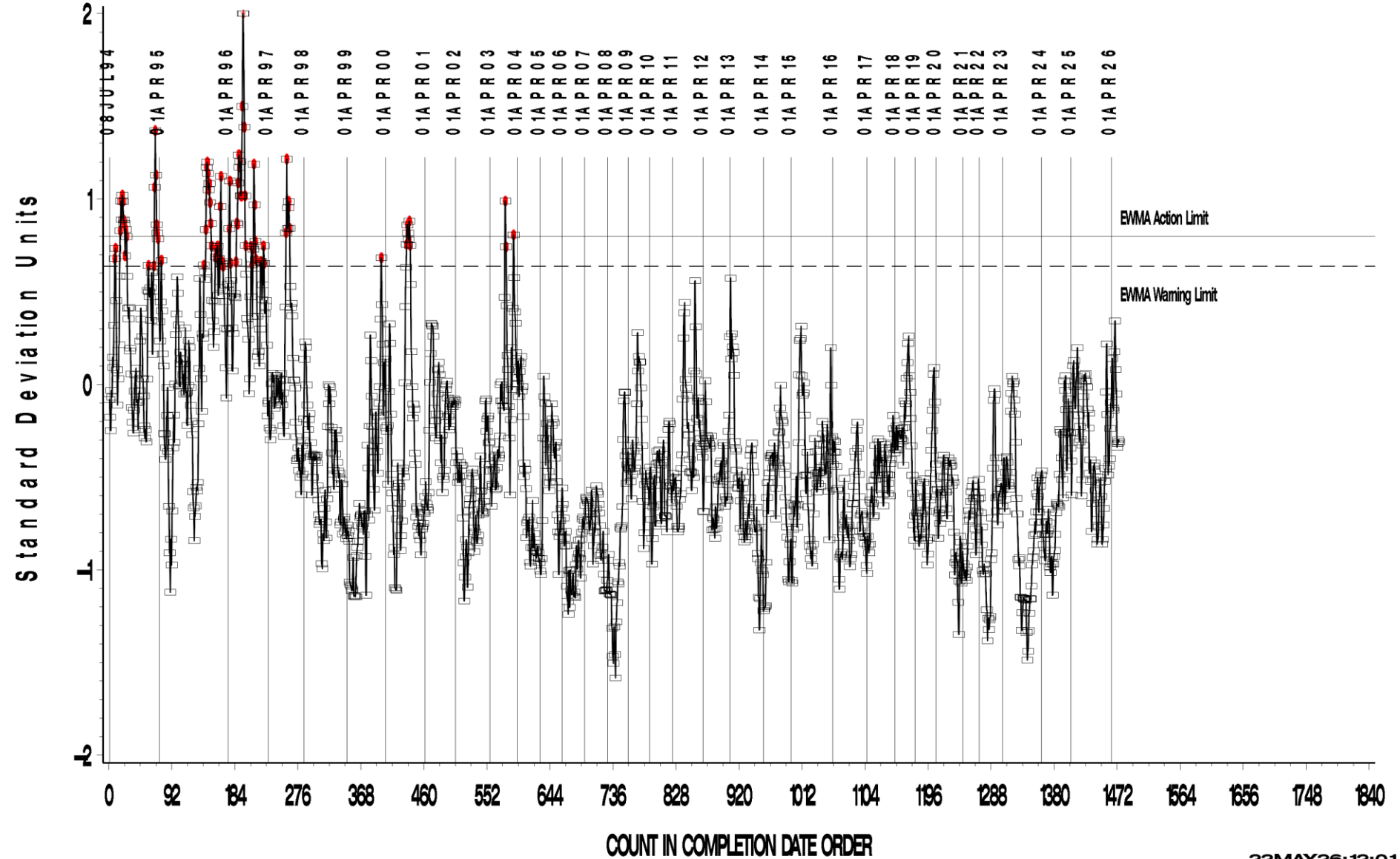
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LTMS Severity Analysis



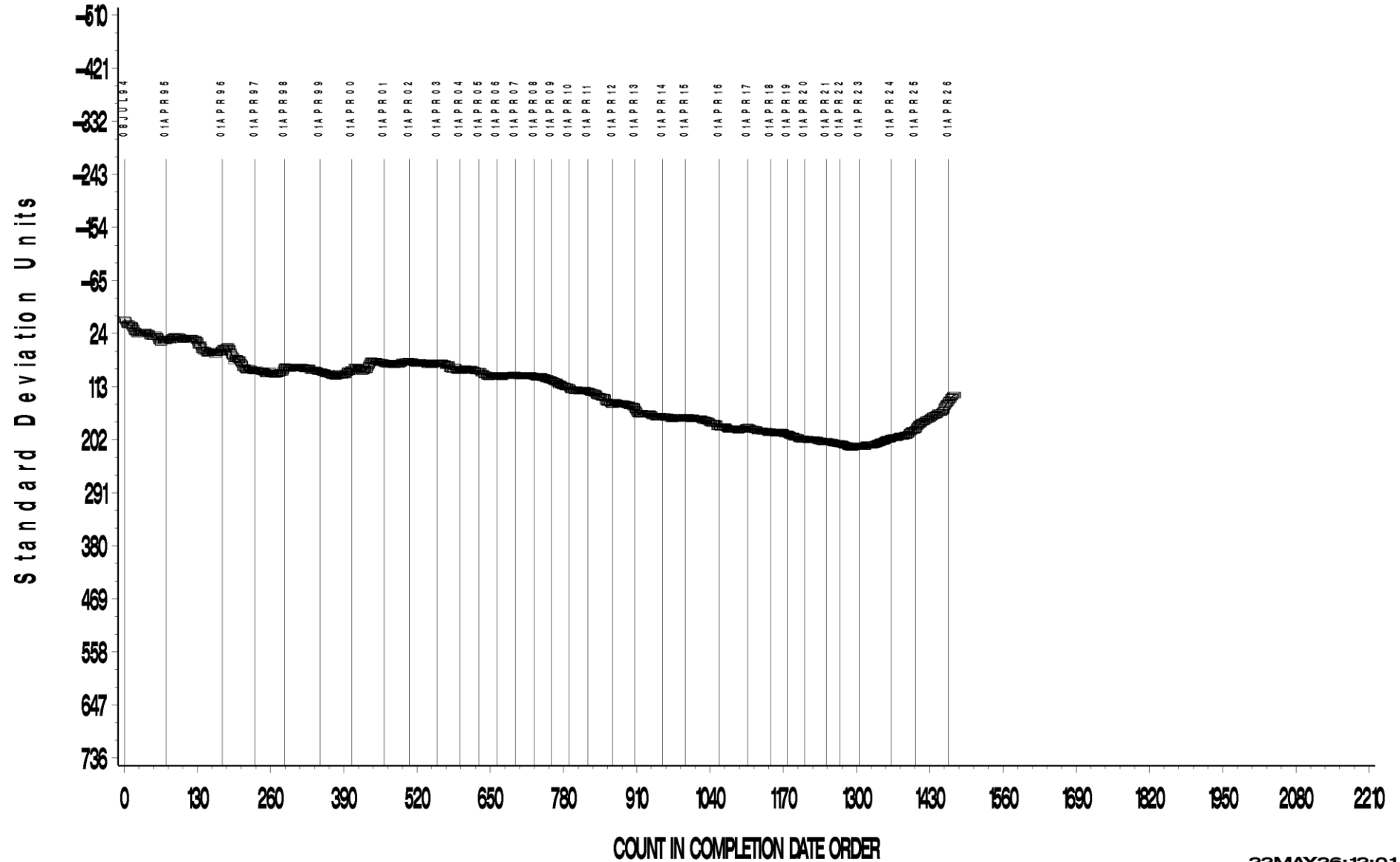
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LTMS Precision Analysis



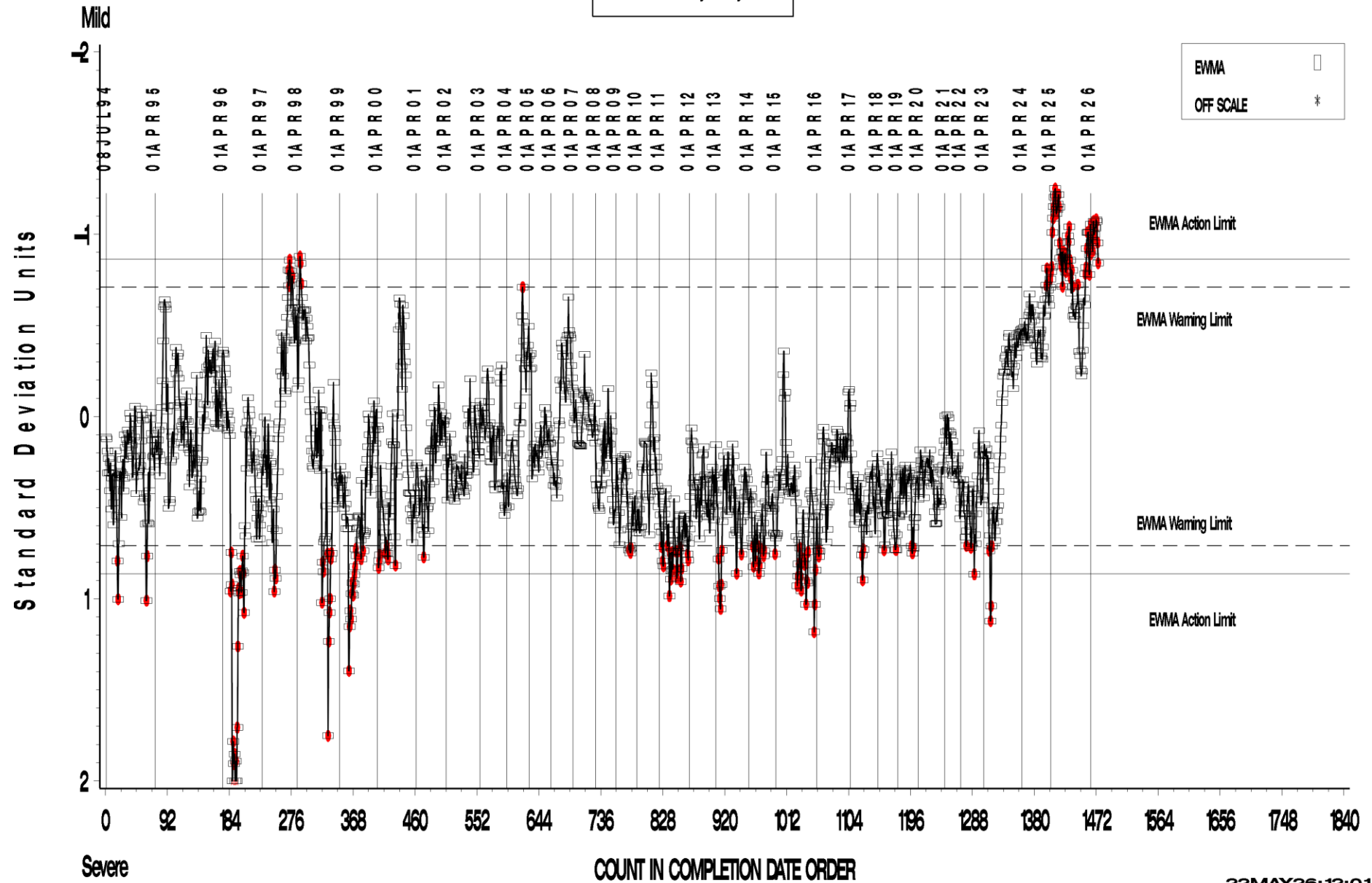
REF. FINAL PENTANE INSOLUBLES

CUSUM Severity Analysis



REF. FINAL TOLUENE INSOLUBLES

LTMS Severity Analysis

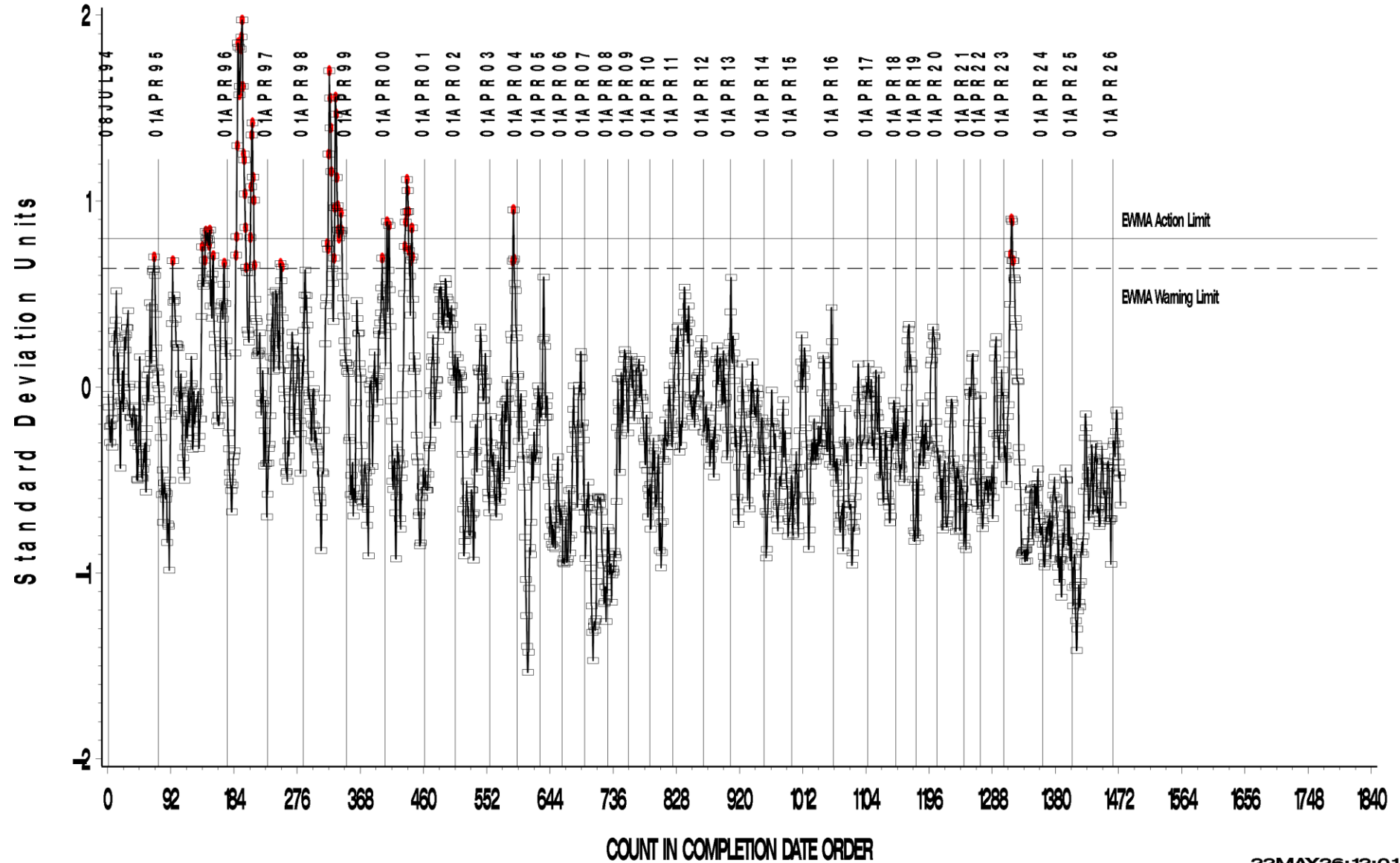


EWMA □  
 OFF SCALE \*

EWMA Action Limit  
 EWMA Warning Limit  
 EWMA Warning Limit  
 EWMA Action Limit

REF. FINAL TOLUENE INSOLUBLES

LTMS Precision Analysis



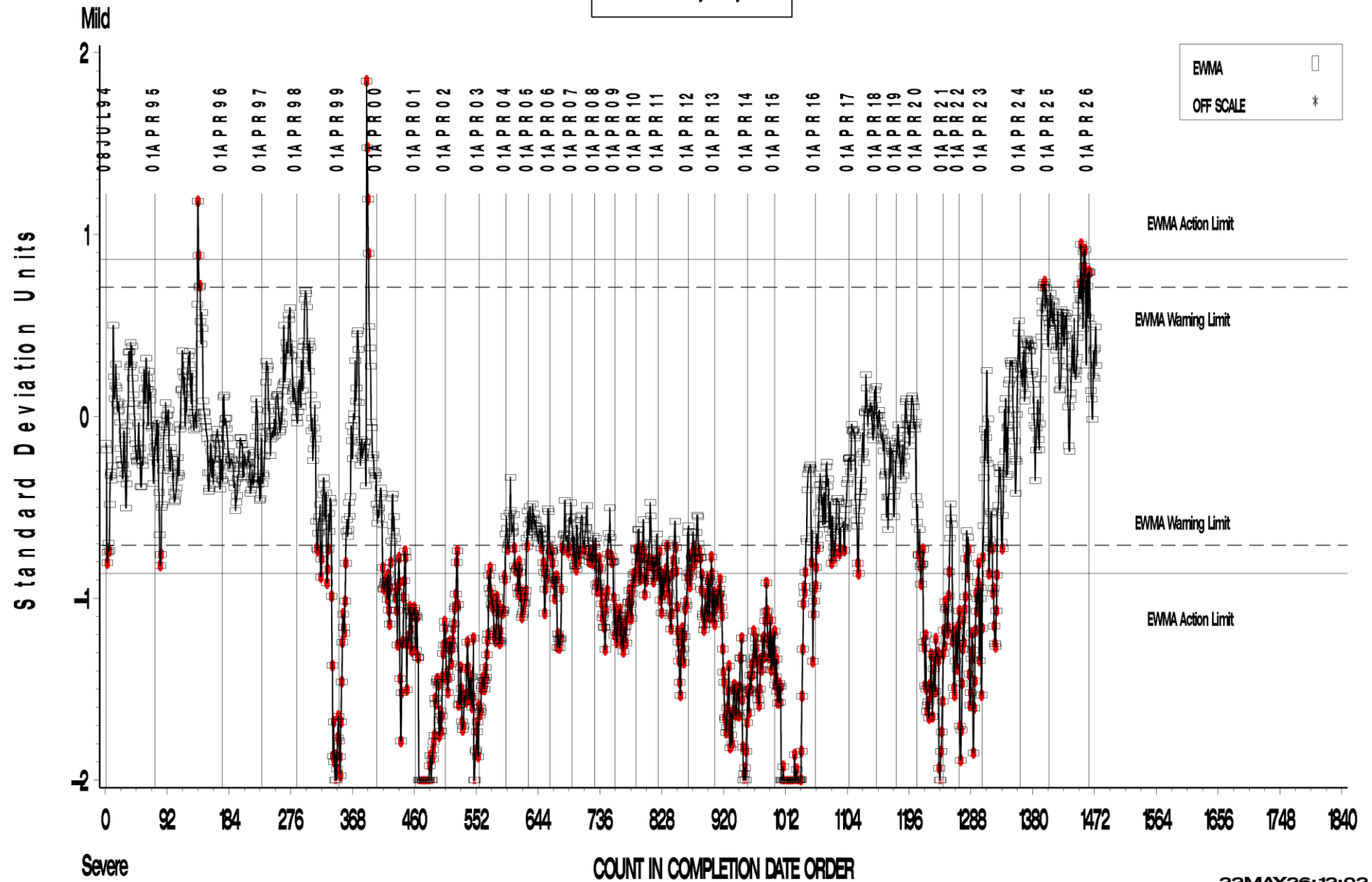
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CUSUM Severity Analysis



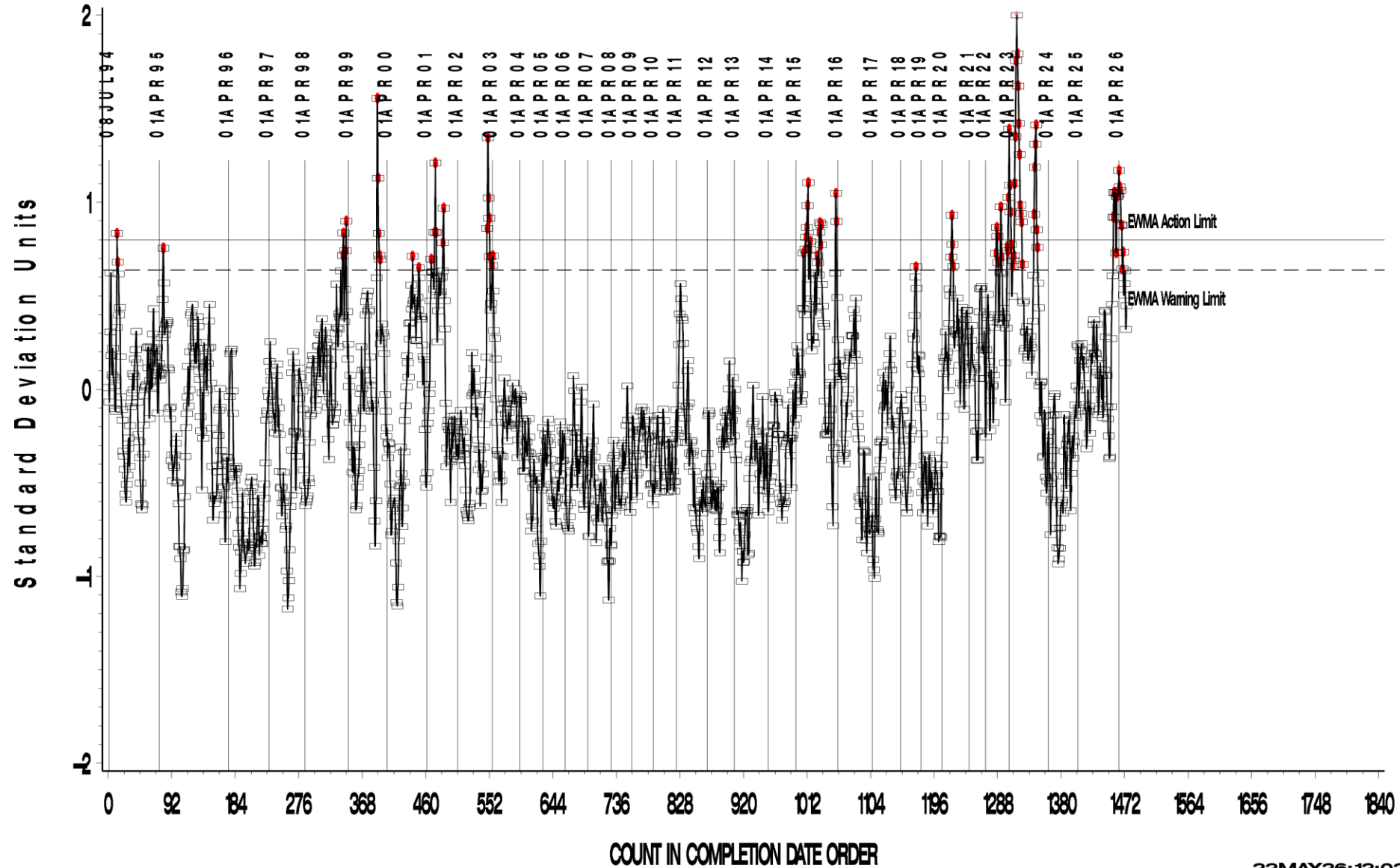
REF. FINAL AVERAGE CARBON/ VARNISH

LTMS Severity Analysis



REF. FINAL AVERAGE CARBON/ VARNISH

LTMS Precision Analysis



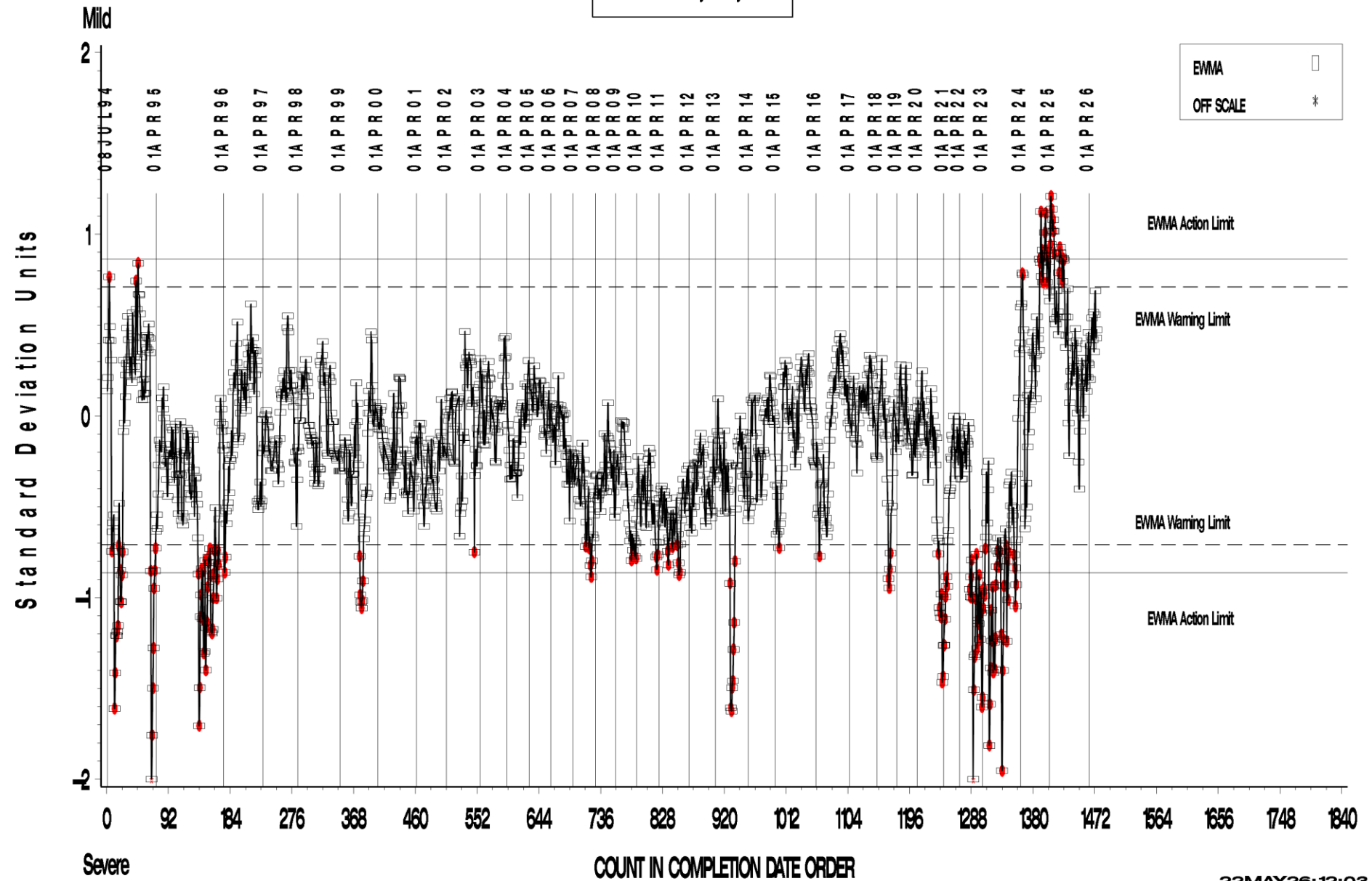
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CUSUM Severity Analysis



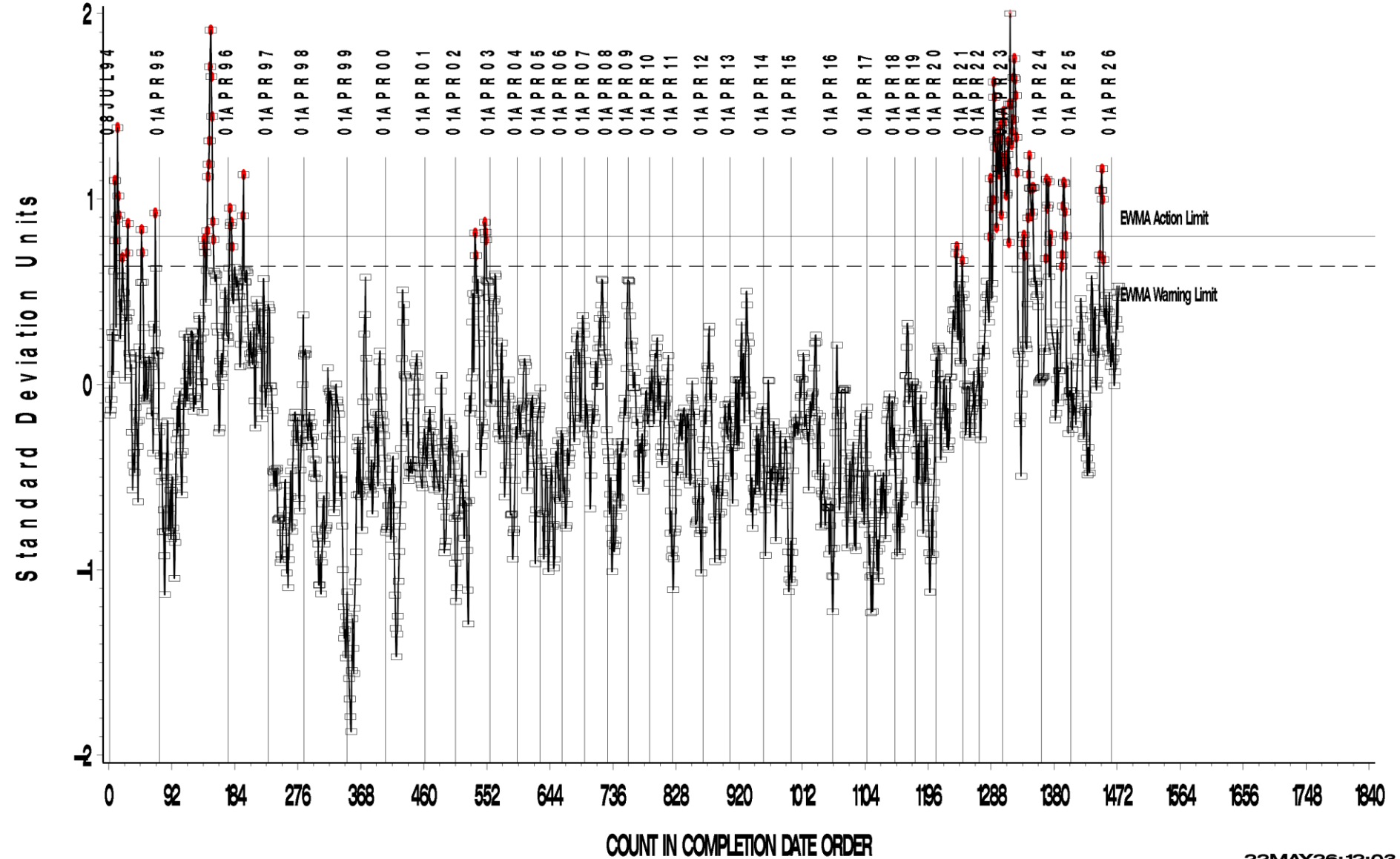
REF. FINAL AVERAGE SLUDGE

LTMS Severity Analysis



REF. FINAL AVERAGE SLUDGE

LTMS Precision Analysis



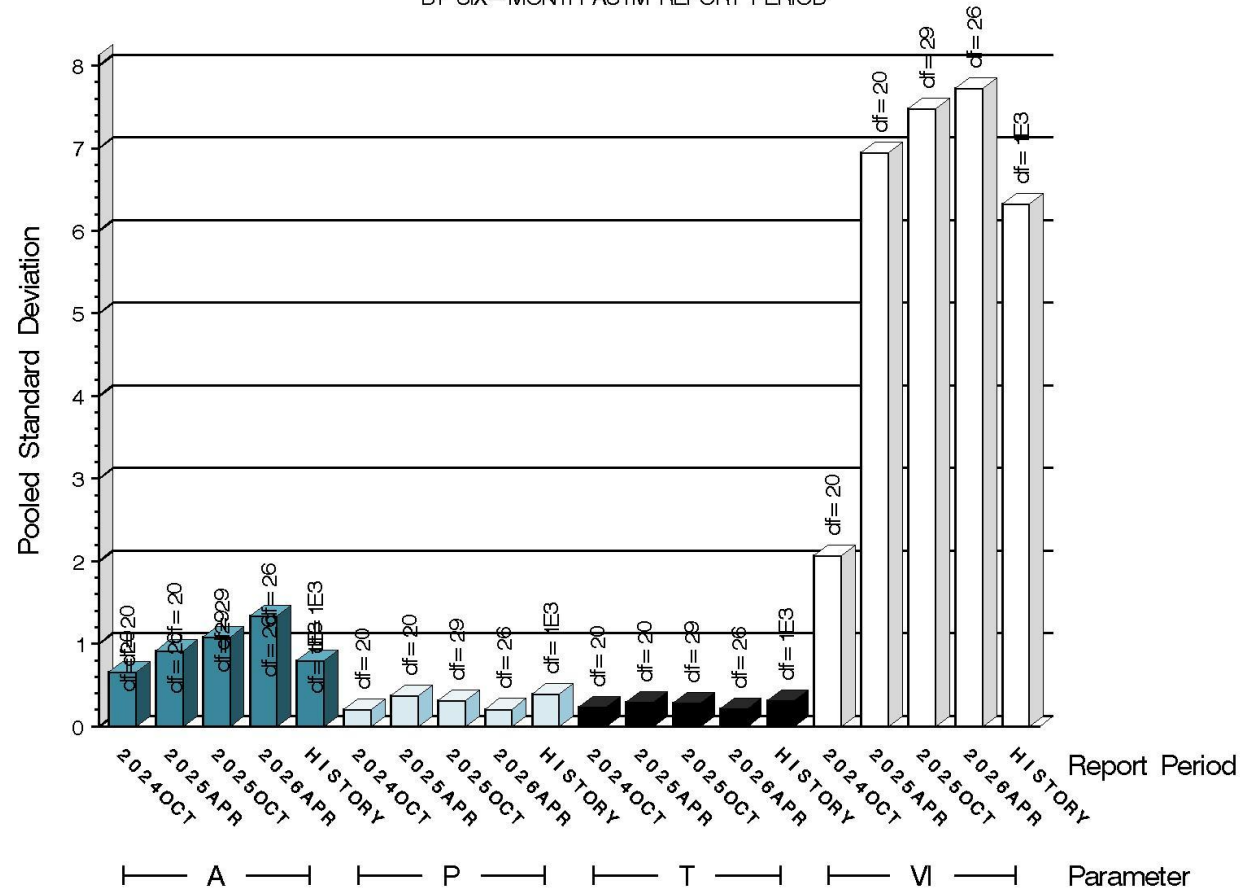
REF. FINAL AVERAGE SLUDGE

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

14:01:02 06JUN2026

# Information Letters



April 2026

# Information Letters\*

No new Information Letters during this reporting period.

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# 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 completed for 170-1 and 172. Currently under review by surveillance panel.

# 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.

## ➤ TMC 134-1 and 152-2 (L37-1 Testing)

➤ The panel is searching for a replacement oil for reference oil 134-1 and 152-2 for L37-1 reference testing. Interested parties should approach the TMC.

# Reference Oil Inventory Estimated Life

Original Blend	Oil	Tests	Year	Blend Quanti	TMC Invento	Estimated Li	Comment
117	117	L-42	2013	550	193.5	5 years	A request has been put out to the panel for a replacement oil for 117
126	126	L-33-1	2022	105	34.3	3 years	
155	155-2	L-33-1, L-37-1, L-60-1, HTCT, OSCT	2020	265	159	4 years	
134	134-1	L-37-1	2015	220	71	5 years	
152	152-2	L-37-1	2009	275	14.3	>2 year	A request has been put out to the panel for a replacement oil for 152-2
119	119-1	L-42	2024	54	38.5	5 years	Approved by panel Nov 2024
	145	L-60-1	2024	48	43.7	5 years	Replacement for 148-1. Approved for test use
169	169	OSCT	2010	275	99	5 years	
170	170	OSCT	2015	52	18	2 years	
171	171	OSCT	2017	53	0	0 years	TMC inventory has been depleted.
	172	OSCT	2024	103	102	7 years	Replacement for 169. Not yet approved by panel for test use
170	170-1	OSCT	2024	51.5	48.7	7 years	Reblend of 170. Not yet approved by panel for test use
171	171-1	OSCT	2024	54	45	5 years	Reblend of 171. Approved for test use

# LTMS Deviations

»» Oct 1 2025– March 31, 2026

# LTMS Deviations

- No LTMS Deviations this period

# TMC Laboratory Visits

➤➤ Oct 1 2025– March 31, 2026

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<https://www.astmtmc.org>



# 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

»» Oct 1 2025– March 31, 2026

# Test Area Timeline Additions\*

Test	Date	Topic	IL
L-33-1	20260217	The surveillance panel agreed to approve new 31XX Gear Batch.	TMC Memo 26-001

\*As of 03/31/2025

# Rating Workshop Data

➤➤ January 2026 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/](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>

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