



ASTM INTERNATIONAL  
Helping our world work better

100 Barr Harbor Drive  
PO Box C700  
West Conshohocken, PA  
19428-2959 USA

tel +1.610.832.9500  
fax +1.610.832.9666  
www.astm.org

**COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS**

**CHAIR:** Scott Fenwick, Clean Fuels Alliance America, PO Box 104848, Jefferson City, MO 65110-4898, (800) 841-5849, e-mail: [sfenwick@CleanFuels.org](mailto:sfenwick@CleanFuels.org)

**FIRST VICE CHAIR:** Gregory C Miiller, Tannas Co, 4800 James Savage Rd, Midland, MI 48642, United States (989) 496-2309, Fax: (989) 496-3438, e-mail: [gmiiller@savantgroup.com](mailto:gmiiller@savantgroup.com)

**SECOND VICE CHAIR:** James J Simnick, Ph.D, Simnick Consulting LLC, 1424 Brush Hill Circle, Naperville, IL 60540, (630) 269-8662, e-mail: [jim.simnick@gmail.com](mailto:jim.simnick@gmail.com)

**FIRST SECRETARY:** Ian P Mylrea, Stanhope-Seta, 70 Bramley Drive, Hampshire, RG27 8ZF, United Kingdom (44) 1932 574589, e-mail: [im@stanhope-seta.co.uk](mailto:im@stanhope-seta.co.uk)

**SECOND SECRETARY:** Barbara E. Goodrich, John Deere Product Engineering, 1017 Washington St., Cedar Falls, IA 50613, (319) 464-4417, email: [goodrichbarbarae@johndeere.com](mailto:goodrichbarbarae@johndeere.com)

**STAFF MANAGER:** Alyson Fick, ASTM International, (610) 832-9710, e-mail: [afick@astm.org](mailto:afick@astm.org)

**Sequence VIII Surveillance Panel Meeting Minutes  
Tuesday, November 15, 2022  
Intertek, Port San Antonio Location  
3:00 - 4:00 PM CST**

**Minutes recorded by Patrick Lang**

**Direct any comments or corrections to: [patrick.lang@swri.org](mailto:patrick.lang@swri.org)**

The attendance list can be found as Attachment #1.

Bob Campbell will replace Christian Porter of Afton, William Hairston will replace Prasad Tumati of Haltermann and Joseph Riou will replace Tony Hendrix of SwRI.

**Agenda:**

The agenda can be found as Attachment #2.

**Minutes Approval:**

A motion was made and approved with no objections to accept the minutes as written from the March 13, 2022, Sequence VIII Surveillance Panel conference call.

**Central Parts Supplier Report:**

Pat gave the parts supplier report on behalf of Dan Lanctot of TEI. The report can be found as Attachment #3. All parts are in good supply with approximately 940 sets of the new batch of bearings in stock at TEI. Pat also advised that the current 06-16 bearing batch has been depleted at the CPD but there is some remaining inventory at the labs.

### **Fuel Supplier Report:**

William Hairston of Haltermann gave the fuel supplier report via the Webex call-in. William reported that there are no issues with fuel supply at this point. The Sequence IVB uses the same fuel and there were no supply issues or problems in that test type as well.

### **TMC Report:**

Rich Grundza provided the TMC report which can be found as Attachment #4. There were six tests reported this period with two of the six tests failing their calibration attempt.

He reported that Bearing Weight Loss severity (BWLS) is in control with a recent BWL precision warning alarm triggered but has since recovered. The Cusum plot for BWL has been flat for a period of time.

Stripped viscosity has triggered a mild EWMA severity warning limit with precision being in control. The Cusum plot for SVIS has been showing a slight upward trend for several periods.

### **Old Business:**

The group discussed the need for another reference oil. This has been an ongoing topic for a long time. Oil 704 has been depleted at the TMC with limited quantities at the labs which will be held for use to bring in the new bearing batch. The TMC has about 170 gallons of oil 1006-2 but other test types use this oil. We will most likely be ok for at least a year with this remaining quantity.

The group entertained bringing in oil 1009 again but the target for this oil is very close to 1006-2, 13.8/17.5 mg weight loss respectively. The panel prefers an oil close to the candidate pass limit of approximately 26 mg.

Bill Buscher made the suggestion of using oil 1011-1 which is currently used in the VH. He also asked if using an IX reference oil would be a possibility. Andy Ritchie threw out the idea of API oil "API-01" which is a high Moly oil.

No decisions were made during the meeting on what oil to use next. The chairman will continue to investigate. Andy Ritchie mentioned that the chair should approach the TMC once an oil is chosen to see if there is a possibility of some funding being released for the prove-out.

**New Business:**

The new bearing batch designated as 03-22 will be brought into service in the first quarter of 2023. Labs will be required to conduct two successful calibration tests in their lab on the new bearings before candidates testing can begin on them.

**Adjournment:**

The meeting was adjourned at 4:00 PM CST.

Next meeting at the call of the chairman




**Attachment #1**

**Attendance List**




**ASTM SEQUENCE VIII SURVEILLANCE PANEL  
VOTING MEMBERSHIP ATTENDANCE RECORD**

Name	Address	Attendance
Alfonso, Adrian	Intertek 5404 Bandera Road San Antonio, TX 78238 Phone: 210-647-9429 adrian.alfonso@intertek.com	
Bowden, Jason	OH Technologies, Inc. P.O. Box 5039 Mentor, OH 44061-5039 Phone: 440-354-7007 jhbowden@ohtech.com	
Savant, Amol	Valvoline 21st and Front Streets Ashland, KY 41101 Phone: 606-585-8982 acsavant@valvoline.com	
Campbell, Bob	Afton Chemical 500 Spring Street P.O. Box 2158 Richmond, VA 23218 Bob.Campbell@aftonchemical.com	
Grundza, Rich	ASTM/TMC Phone: 412-365-1031 reg@astmtmc.org	
Hsu, Jeff	Shell Projects and Technology-USA 3333 Hwy 6 Houston, TX 77082 Phone: 281-544-8619 J.Hsu@shell.com	
Hairston, William	Haltermann Solutions 15600 W. Hardy Road Houston, TX 77060 Phone No: 832-647-9264 whhairston@haltermann.com	
Riou, Joseph	Southwest Research Institute 6220 Culebra Road P.O. Box 28510 San Antonio, TX 78228-0510 Phone: 210-522-6266 jriou@swri.org	

**ASTM SEQUENCE VIII SURVEILLANCE PANEL  
VOTING MEMBERSHIP ATTENDANCE RECORD**

Name	Address	Attendance
Lanctot, Dan	Test Engineering Inc. 12718 Cimarron Path San Antonio, TX 78249-3423 Phone: 210-690-1958 dlanctot@tei-net.com	
Kowalski, Teri	Toyota Motor North America, Inc. 1555 Woodridge Ann Arbor, Mi 48105 Phone: 734-995-4032 Cell: 734-355-8082 teri.kowalski@tema.toyota.com	
Cosgrove, Bradley	GM Global Propulsion Systems Phone: 313-590-2186 Bradley.Cosgrove@gm.com	
Rubas, Paul	ExxonMobil Research and Engineering Company 600 Billingsport Rd. Paulsboro, NJ 08066 Email: paul.j.rubas@exxonmobil.com	
Tang, Haiying	Stellantis Phone: 248-512-0593 haiying.tang@stellantis.com	
Stockwell, Robert	Chevron Oronite Company LLC 4502 Centerview Drive Suite 210 San Antonio, TX 78228 Phone: 210-232-3188 Robert.stockwell@chevron.com	
Marks, Brian	BP Lubricants USA 1500 Valley Rd Wayne, NJ 07470 Phone: Brian.Marks@BP.com	

**ASTM SEQUENCE VIII SURVEILLANCE PANEL  
VOTING MEMBERSHIP ATTENDANCE RECORD**

Name	Address	Attendance
Deegan, Mike	Ford Motor Company 17228 Federal Drive Allen Park, MI 48101 Phone: 313-805-8942 mdeegan@ford.com	
Ritchie, Andy	Infineum P.O. Box 735 1900 East Linden Ave. Linden, NJ 07036-0735 Phone: 908-474-2097 andrew.ritchie@infineum.com	
Szappanos, George	Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092 Phone: 440-347-2631 George.szappanos@lubrizol.com	

**ASTM SEQUENCE VIII SURVEILLANCE PANEL  
NON-VOTING MEMBERSHIP and GUESTS ATTENDANCE RECORD**

Name	Address	Phone/Fax/Email	Attendance
Ricardo AFFINITO	Chevron Onorite	Ph. 713-954-6170 mob. 510-230-7919 affinito@chevron.com	✓
Rob Zdrodowski	Ford	313-390-4046 rzdrowow@ford.com	✓
Travis Kostan	SWRI	210-522-2407 tkostan@swri.org	✓
William Murdock	SWRI	210-522-2515 william.murdock@swri.org	✓
DAVE PASSMORE	IMTS	810-588-8155 DPASSMORE@IMTSIND.COM	✓
Tony Catanese	Lubrizol	216-225-5733 tony.catanese@lubrizol.com	✓
George SZAPPANOS	LZ	440-347-2352 gsz@lubrizol.com	✓
<del>Al</del> <del>Lozano</del>	Intertek	<del>al.lozano@intertek.com</del>	✓
Doyle Boese	Infinium	908-474-3176 Doyle.Boese@Infinium.com	✓
ANDREW ROHLFING	AFTON	804-788-5504 andrew.rohlifing@aftonchemical.com	✓
Ben Maddock	Afton	804-378-9987 ben.maddock@aftonchemical.com	✓
WILLIAM BUSCHER	INTERTEK	210-240-8990 william.buscher@intertek.com	✓



## **Attachment #2**

### **Agenda**

---

Sequence VIII Surveillance Panel Meeting Agenda  
November 15, 2022  
3:00 – 5:00 PM CST  
San Antonio, TX at Intertek Port San Antonio Facility

1. Welcome
2. Membership Changes
3. Acceptance of meeting minutes:
  - a. Review of the March 13, 2022, Conference Call Minutes.
4. CPD Report from TEI (Dan Lanctot)
  - a. Critical parts inventory levels
5. Fuel Report (Haltermann)
  - a. Current fuel inventory level
  - b. Advise on any potential issues or concerns with future supply
6. TMC Report (Rich Grundza)
  - a. Current LTMS Status
  - b. Reference oil inventory levels
7. Old business
  - a. Find current technology reference oil (GF-6)
8. New Business
  - a. Consider bringing Oil 1009 back into system to address the reference oil need (oil used previously)
  - b. Calibration requirements for bringing in the 03-22 bearing batch
9. Next Meeting
10. Adjournment

**Attachment # 3**

**Central Parts Distributor Report**

---

## **TEI Sequence VIII Critical Parts Inventory (Nov 2022):**

- 1) Connecting Rod Bearing Sets (100034-1)**  
06-16 Current Inventory is 21 sets.  
03-22 Current Inventory is 940 sets
  
- 2) Cylinder liners (122183-1): 4 (10 ft raw stick to make more)**
  
- 3) Crankshaft (100038-1) : 4 (more can be made as needed)**
  
- 4) Main Brgs:**
  - a. Std size: 166 sets*
  - b. Undersize (US): 90 sets*
  
- 5) Piston Rings (41274-H):**
  - a. 29 sets*
  
- 6) Piston (2405):**
  - a. Std: 132 each*
  
- 7) Camshaft Bearings (8231):**
  - a. Std: 167 sets*
  - b. Undersize (US): 484 sets*
  
- 8) Camshafts (8211-R): None available**  
Labs to provide core for rework
  
- 9) Connecting Rod (2434-S): None Available**  
Labs to provide core for rework

**Attachment #4**

**TMC Report**

---

# Sequence VIII

➤➤ October 2022

# Sequence VIII Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	4
Failed Calibration Test	OC	2
Total		6

# Sequence VIII– Failed Tests

Test Status	#
BWLS Stand Precision Shewhart Alarm	1
SVIS Shewhart alarm	1
<b>Total</b>	<b>2</b>



# Sequence VIII Test Severity

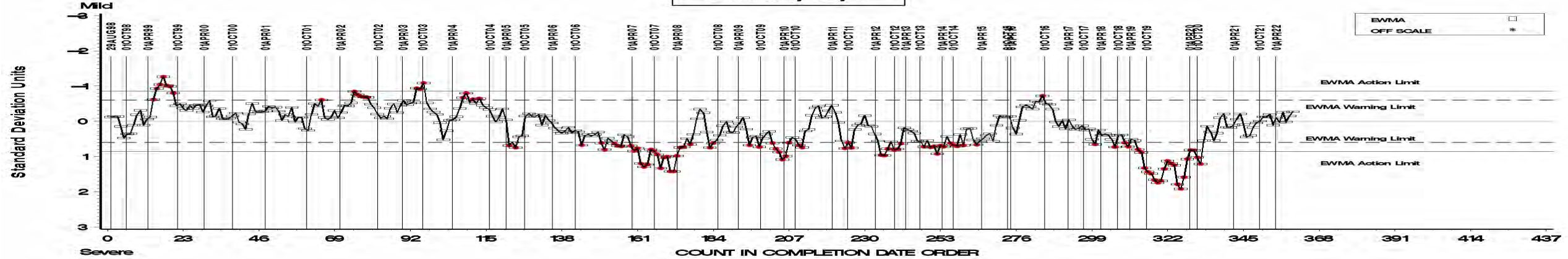
- BWLS is in control
- SVIS is in severity warning alarm

# SEQUENCE VIII INDUSTRY OPERATIONAL VALID DATA

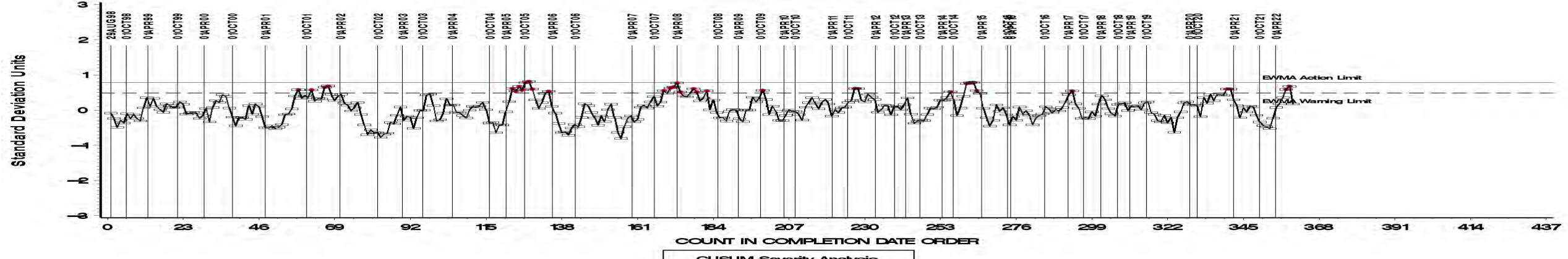


## FINAL BEARING WEIGHT LOSS

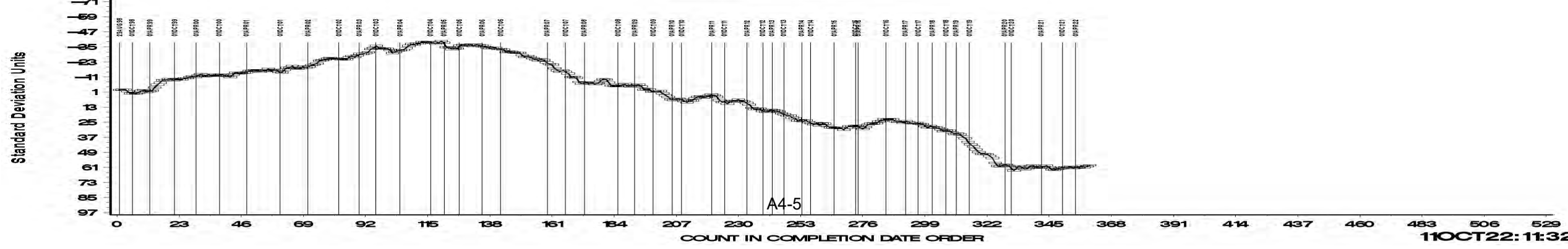
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

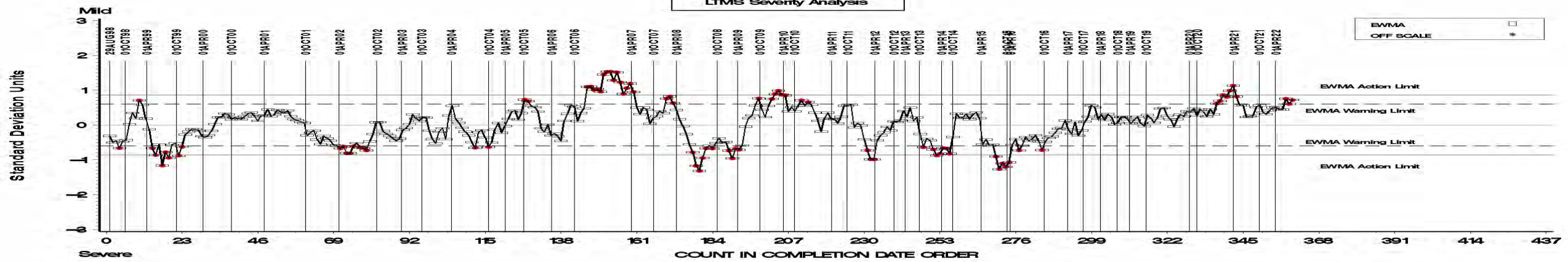


# SEQUENCE VIII INDUSTRY OPERATIONALLY VALID DATA

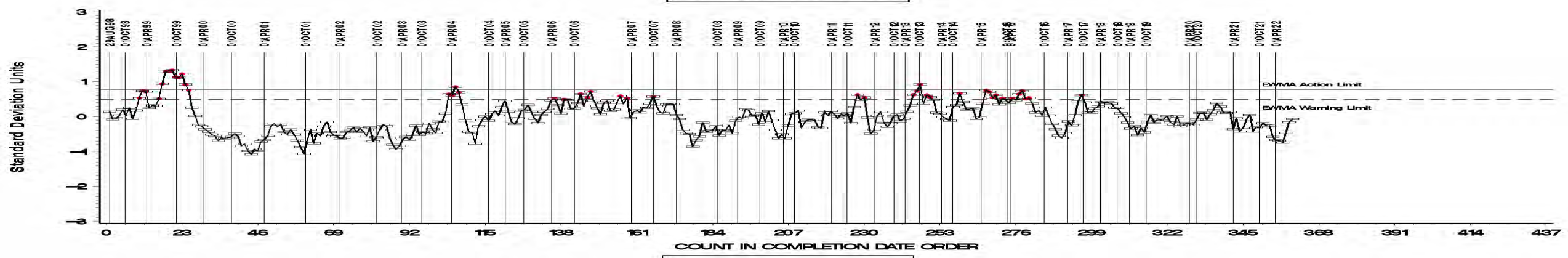


## STRIPPED VIS. @ 100 DEG C

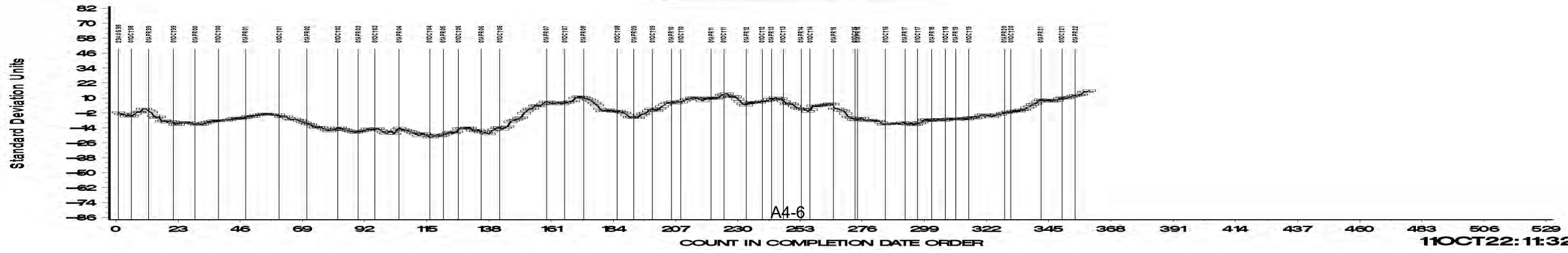
LTMS Severity Analysis



LTMS Precision Analysis



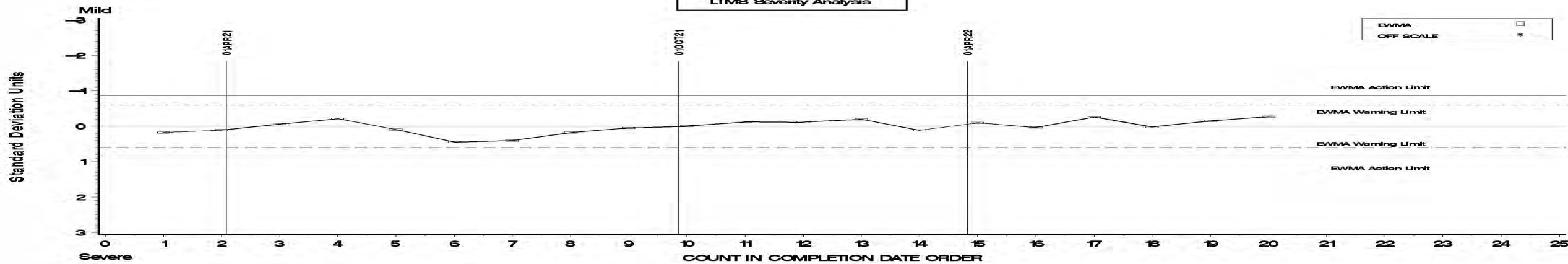
CUSUM Severity Analysis



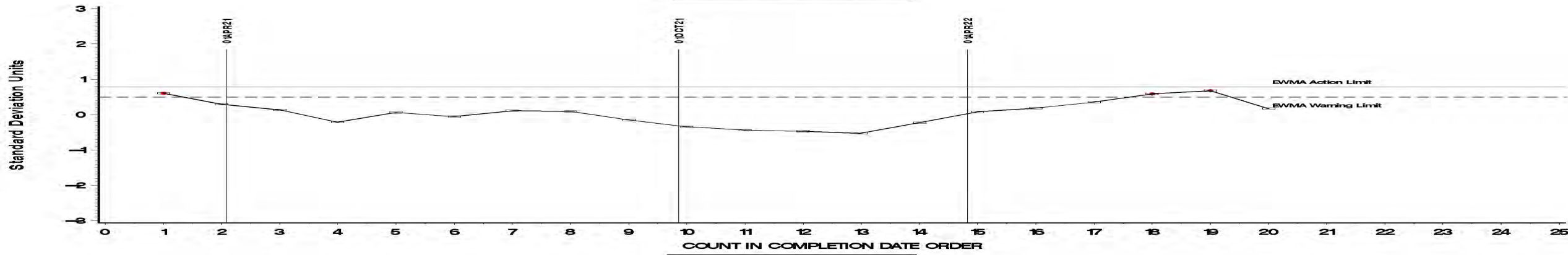
A4-6

## FINAL BEARING WEIGHT LOSS

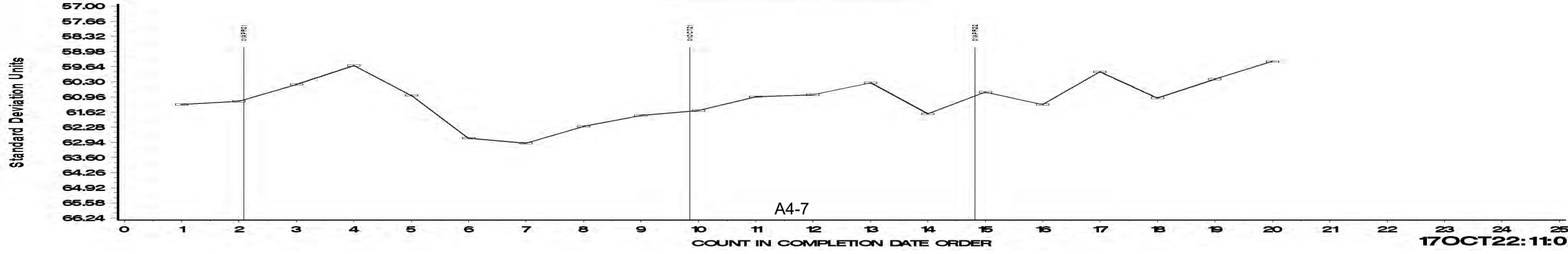
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis

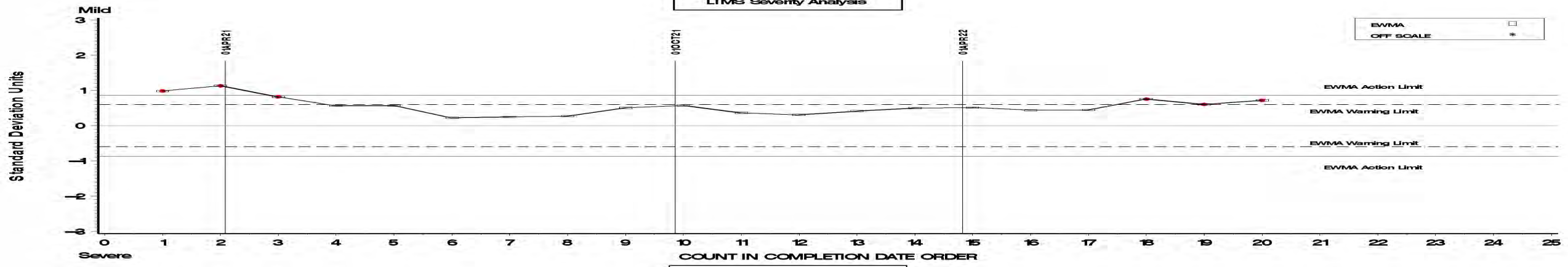


# SEQUENCE VIII INDUSTRY OPERATIONALLY VALID DATA

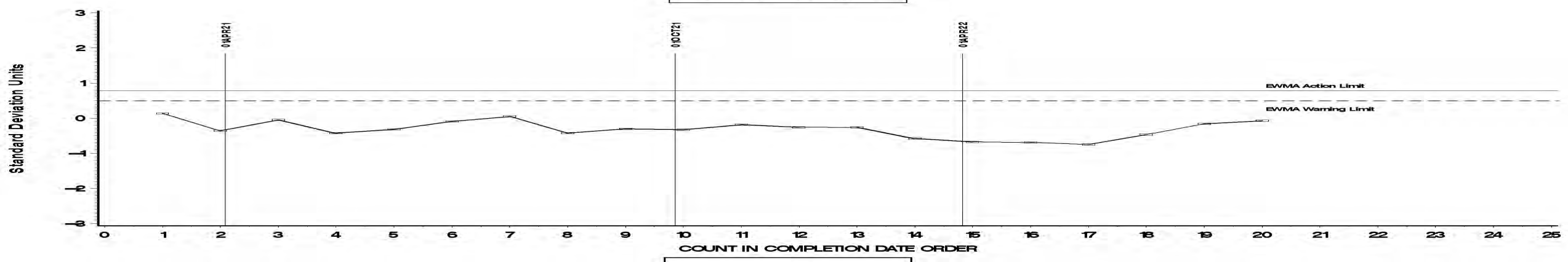


## STRIPPED VIS. @ 100 DEG C

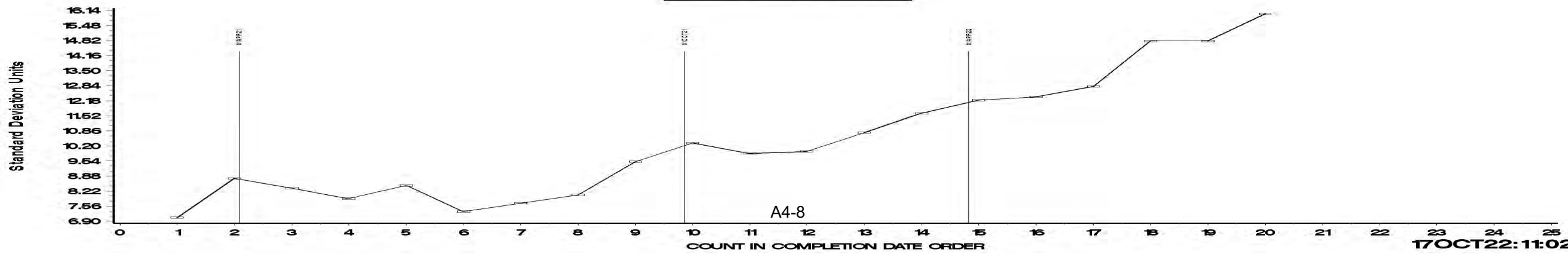
LTMS Severity Analysis



LTMS Precision Analysis

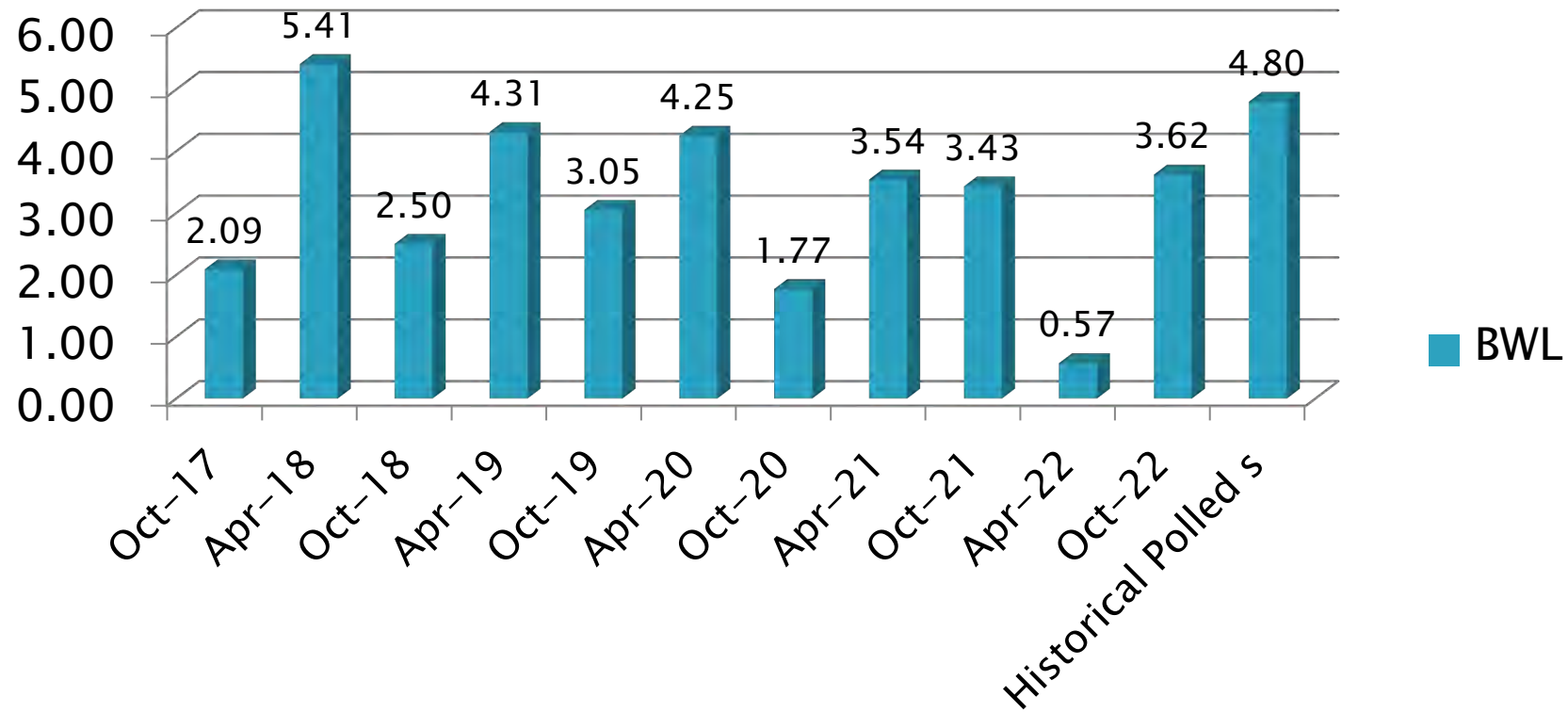


CUSUM Severity Analysis



# Sequence VIII Precision Estimates

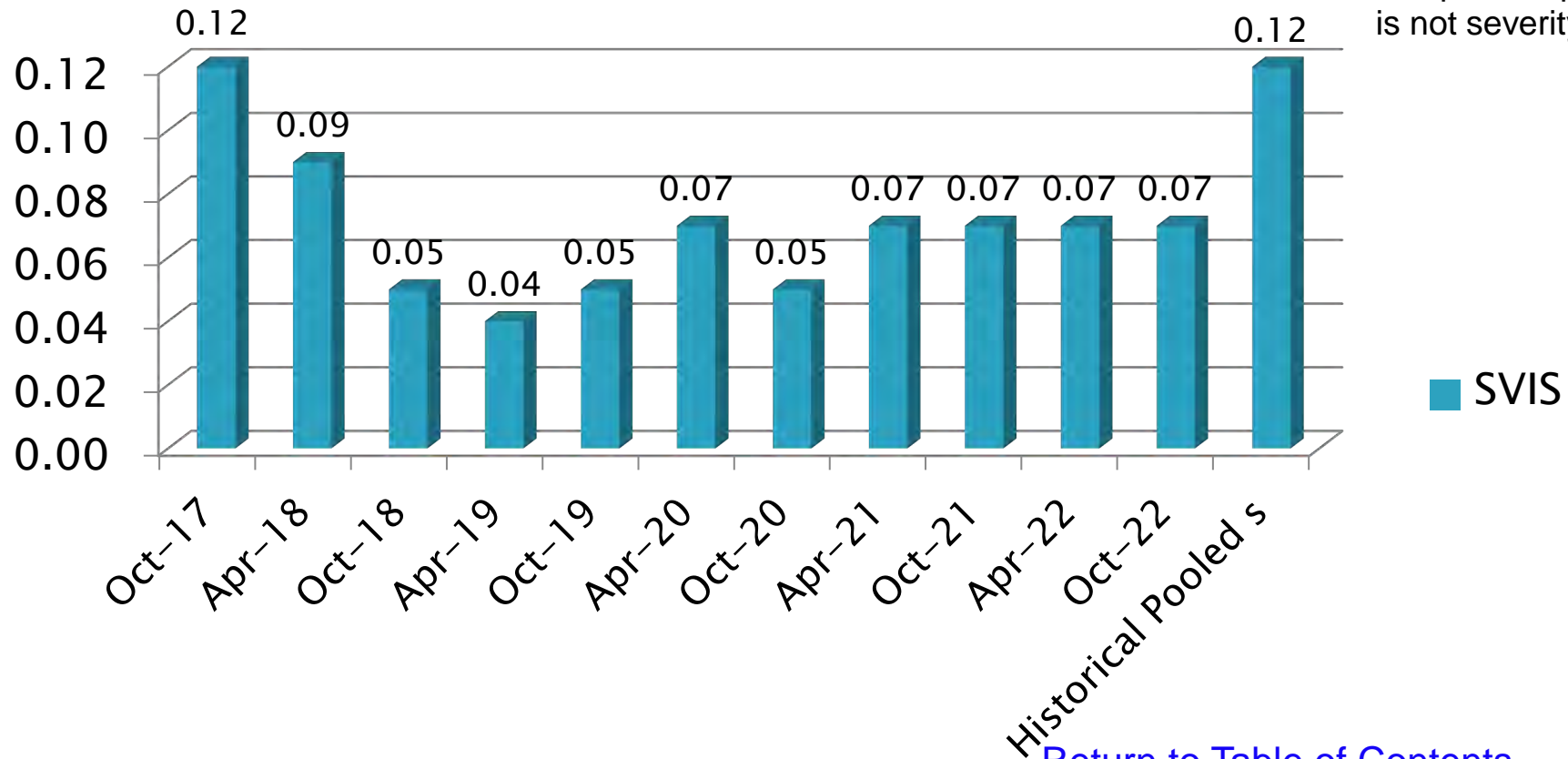
## BWL



# Sequence VIII Precision Estimates

## SVIS

Historical Pooled s used for comparison purposes, parameter is not severity adjusted.



[Return to Table of Contents](#)