



COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS

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STAFF MANAGER: Alyson Fick, (610) 832-9710, e-mail: afick@astm.org

Sequence VIII Surveillance Panel Conference Call Minutes
Monday November 22, 2021
1:00-2:00 PM Central

Minutes recorded by Patrick Lang

Direct any comments or corrections to: patrick.lang@swri.org

Membership changes:

George Szappanos of Lubrizol will replace Jerry Brys.

The attendance list can be found as attachment # 1.

Meeting Minutes Review:

No comments or changes were requested for the minutes from the December 17, 2020 virtual meeting; the minutes were approved with no objections.

Agenda:

The agenda can be found as attachment # 2.

Central Parts Distributor Report: (Dan Lanctot)

The TEI critical inventory parts levels can be found as attachment # 3. Some critical items are shown below:

- Connecting rod bearings: 140 sets available.
- Connecting rods are being supplied via exchange. Labs send cores to TEI to have them reconditioned.
- Crankshafts: 2 in stock

- Gasket kits are in good supply
- Cylinder Liners: 1 liner in stock with 10 others being machined now.

New Rod Bearing Batch:

Dan reported that TEI has contacted the vendor that manufactures the connecting rod bearings and advised that we are looking to make a new batch. Dan will keep the panel updated.

Fuel Supplier Report: (Prasad Tumati)

- Prasad reported that we are down to the last few thousand gallons of green fuel currently in inventory.
- A new batch is expected to be available in January and will be a 45,000-gallon batch.

TMC report: (Rich Grundza)

Rich went through the semi-annual report. In summary Bearing Weight Loss (BWL) and Stripped Viscosity are in control (see attachment #4).

Rich reported that we are getting low on reference oils:

704-1: One year supply

1006-2: One year supply at labs

Since we are running low on reference oils the suggestion was made to consider bringing oil 1009 back into the system.

Pat reported that the previous mean for 1009 in the Sequence VIII was 13.8 mg. Andy Ritchie commented that the old target for 1009 is not where we really need it, i.e., we are looking for an oil closer to the pass limit of 26.4 mg.

Adrian suggested we should reintroduce 1009 as a safety net while looking of a newer oil. Andy agreed that this would be a quick and easy solution.

Rich reported that the TMC has two drums of oil 705 that could be considered for use. This is probably not a good option due to the age of the oil and limited quantity.

Current Technology Reference Oil:

The group agreed that we need to obtain a current technology oil that is in the range of a 25 to 30 milligram weight loss.

Andy mentioned that Oil 224 could be considered; it is an oil that has no Molly but it is not at the desired weight loss (much lower than 25).

Brad asked if we could down-treat an existing oil to get it where we want it.

Amol mentioned that he has an oil at the 26 mg level and asked about the viscosity grade that the oil needed to be. In general we should go as low as we think is safely possible considering the age of this engine.

Action:

Chairman to continue looking for a supplier to provide a new reference oil.

Adjournment:

The meeting was adjourned at 2:00 PM CDT.

Next meeting at the call of the chairman.

Attachment #1

Attendance List

Alfonso, Adrian	Intertek 5404 Bandera Road San Antonio, TX 78238 Phone:210-647-9429 adrian.alfonso@intertek.com	Present 11-22-21
Bowden, Jason	OH Technologies, Inc. P.O. Box 5039 Mentor, OH 44061-5039 Phone: 440-354-7007 dhbowden@ohtech.com	PRESENT 11-22
Savant, Amol	Valvoline 21st and Front Streets Ashland, KY 41101 Phone: 606-585-8982 acsavant@valvoline.com	PRESENT 11-22
Porter, Christian	Afton Chemical 500 Spring Street P.O. Box 2158 Richmond, VA 23218 Christian.porter@aftonchemical.com	PRESENT 11-22
Grundza, Rich	ASTM/TMC 6555 Penn Ave Pittsburgh, PA 15206-4489 Phone: 412-365-1031 reg@astmtmc.cmu.edu	PRESENT 11-22
Hsu, Jeff	Shell J.Hsu@shell.com	
Tumati, Prasad	Haltermann Solutions Channelview, TX Phone No: 313-300-8300 ptumati@jhaltermann.com	PRESENT 11-22
Hendrix, Anthony	Southwest Research Institute 6220 Culebra Road P.O. Box 28510 San Antonio, TX 78228-0510 Phone: 210-522-3720 ahendrix@swri.org	PRESENT 11-22

Lanctot, Dan	Test Engineering Inc. 12718 Cimarron Path San Antonio, TX 78249-3423 Phone: 210-690-1958 dlanctot@tei-net.com	PRESENT 11-22
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	PRESENT 11-22
Rubas, Paul	ExxonMobil Research and Engineering Company 600 Billingsport Rd. Paulsboro, NJ 08066 Email: paul.j.rubas@exxonmobil.com	
Tang, Haiying	Chrysler (FCA) Phone: 248-512-0593 haiying.tang@fcagroup.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	

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	PRESENT 11-22
Brys, Jerry	Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092 Phone: 440-347-2631 Jerome.brys@lubrizol.com	George Szappanos for Jerry on 11-22

Leverett, Charlie	Infineum Phone:210-414-5448 charlie.leverett@yahoo.com		

Attachment #2

Agenda

1. Welcome
2. Membership Changes
3. Acceptance of meeting minutes:
 - a. Review of the December 17, 2020 Conference Call Minutes.
4. CPD Report from TEI (Dan Lanctot)
 - a. Critical parts inventory levels
 - b. New bearing batch
5. Fuel Report (Prasad Tumati)
 - 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
8. New Business
 - a. Find current technology reference oil (GF-6)
 - i. Consider Oil 1011/1012
 - ii. Other options
9. Next Meeting
10. Adjournment

Attachment # 3

Parts Inventory at TEI

TEI Sequence VIII Critical Parts Inventory (Nov 2021):

- 1) Connecting Rod Bearing Sets (100034-1)
Current Inventory is 140 sets. (**1000 sets being quoted.**)
- 2) Cylinder liners (122183-1): 1 in stock (10 being machined now and 20 feet of raw material in stock)
- 3) Crankshaft (100038-1) : 2 in stock
- 4) Main Brgs:
 - a. Std size: 168 sets
 - b. Undersize (US): 155 sets
- 5) Piston Rings (41274-H):
 - a. 39 sets
- 6) Piston (2405):
 - a. Std: 7 each (155 on order)
- 7) Camshaft Bearings (8231):
 - a. Std: 47 sets
 - b. Undersize (US): 388 sets
- 8) Camshafts (8211-R):
 - a. Provide core for rework
- 9) Connecting Rod (2434-S)
Provide core and then we have it re-worked.

Attachment # 4

TMC Report

Sequence VIII

»» October 2021

Sequence VIII Activity

Test Status	Validity Code	#
Acceptable Calibration Test	AC	6
Operationally Invalid Calibration Test, Lab and TMC Judgement	RC	3
Total		9

Sequence VIII – Lost Tests

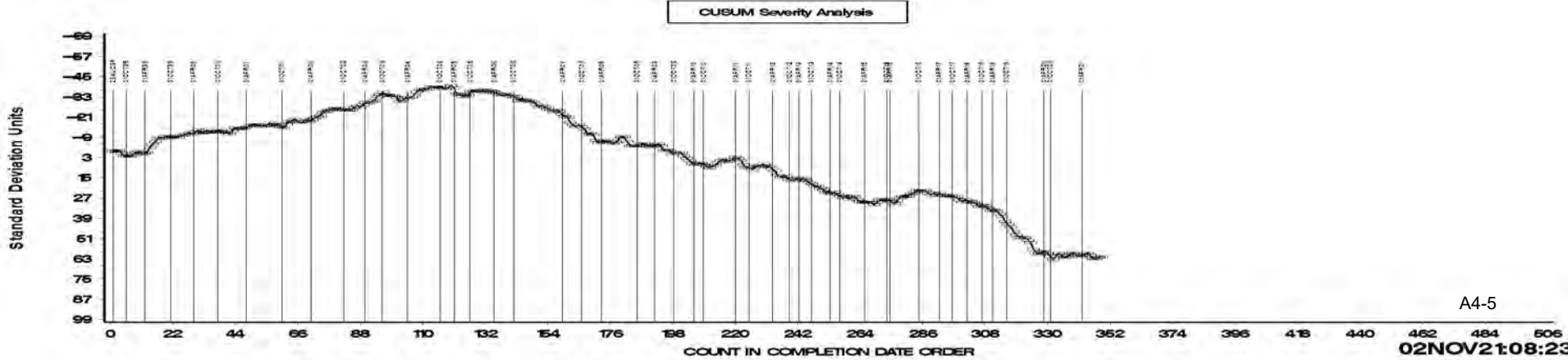
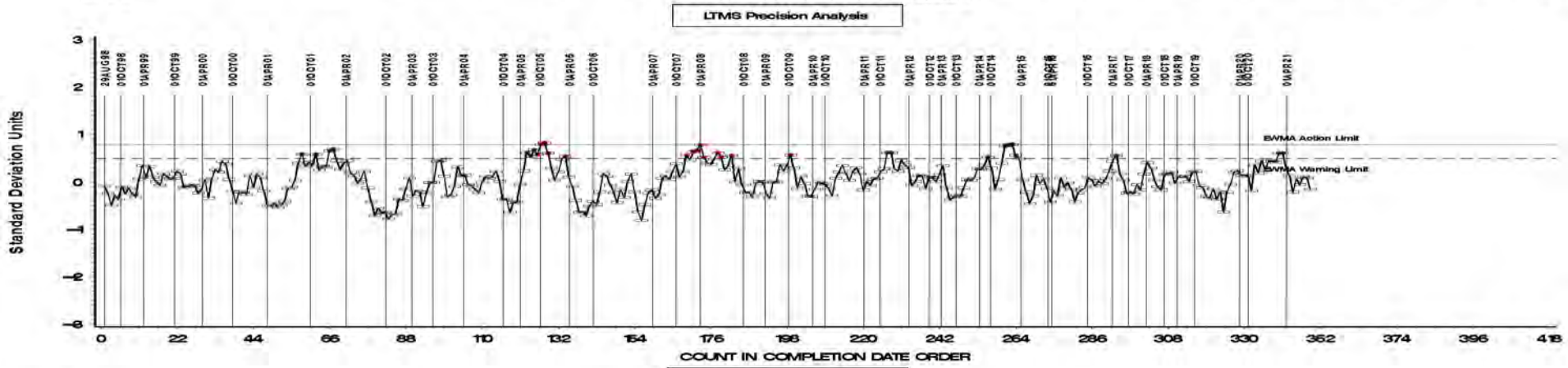
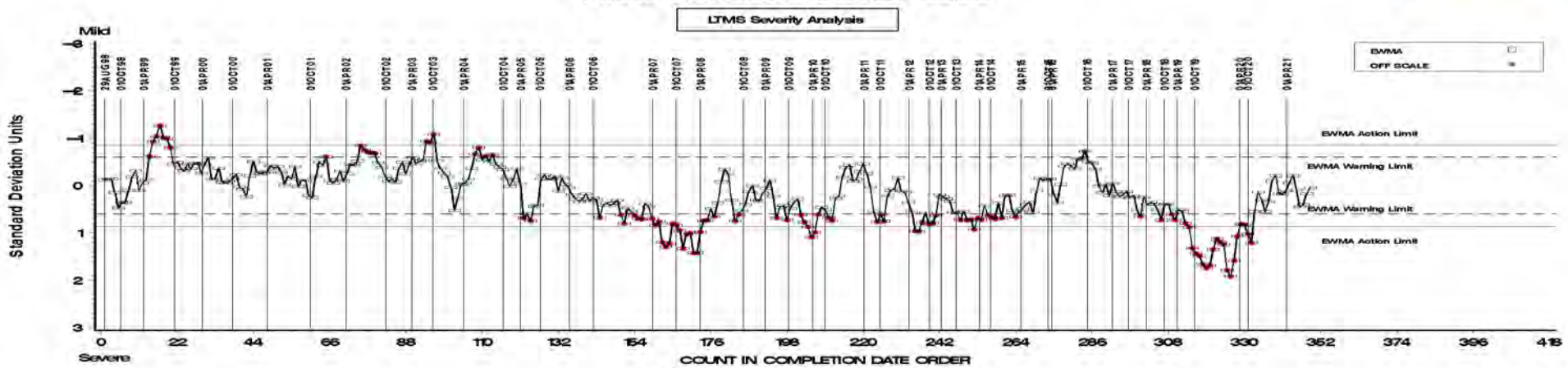
Test Status	Cause	#
Invalid	Lab adjusted build practices within procedural limits for subsequent reference and candidate tests	3
Totals		3

*Invalid and aborted tests

Sequence VIII Test Severity

- Both parameters are in control

FINAL BEARING WEIGHT LOSS

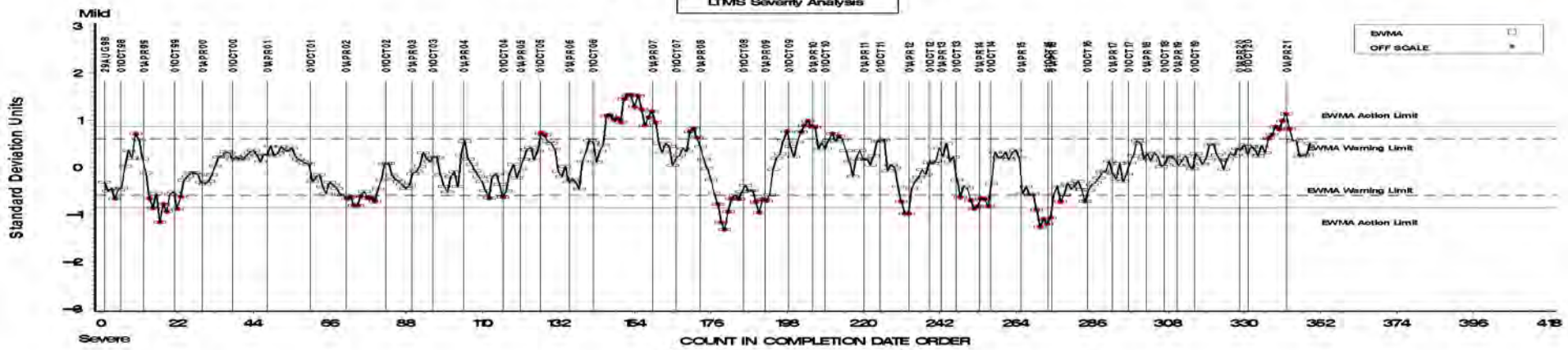


SEQUENCE VIII INDUSTRY OPERATIONALLY VALID DATA

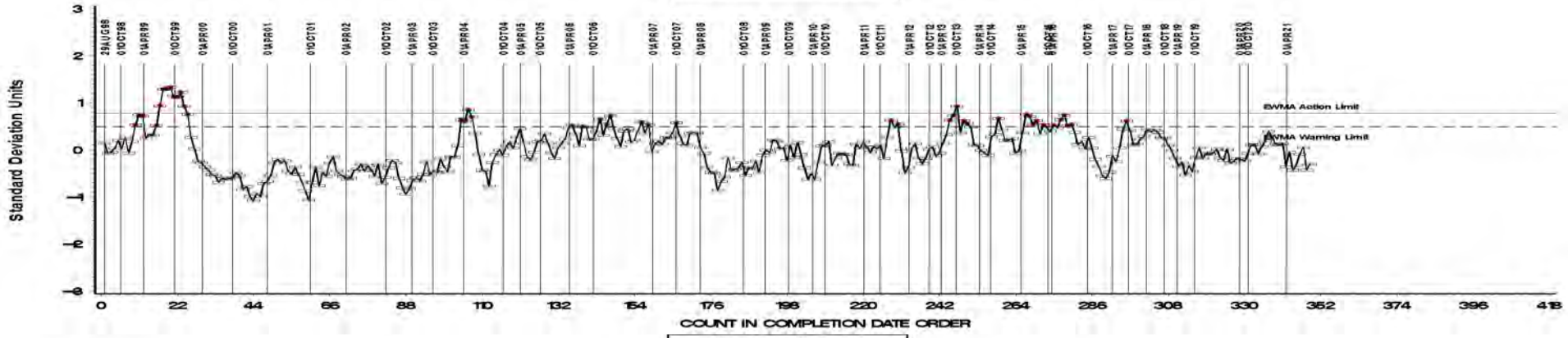


STRIPPED VIS. @ 100 DEG C

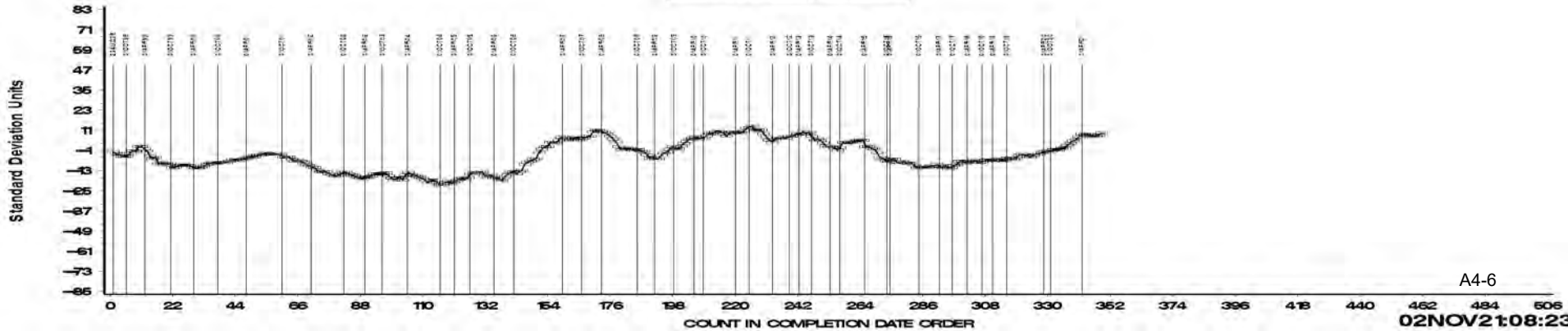
LTMS Severity Analysis



LTMS Precision Analysis

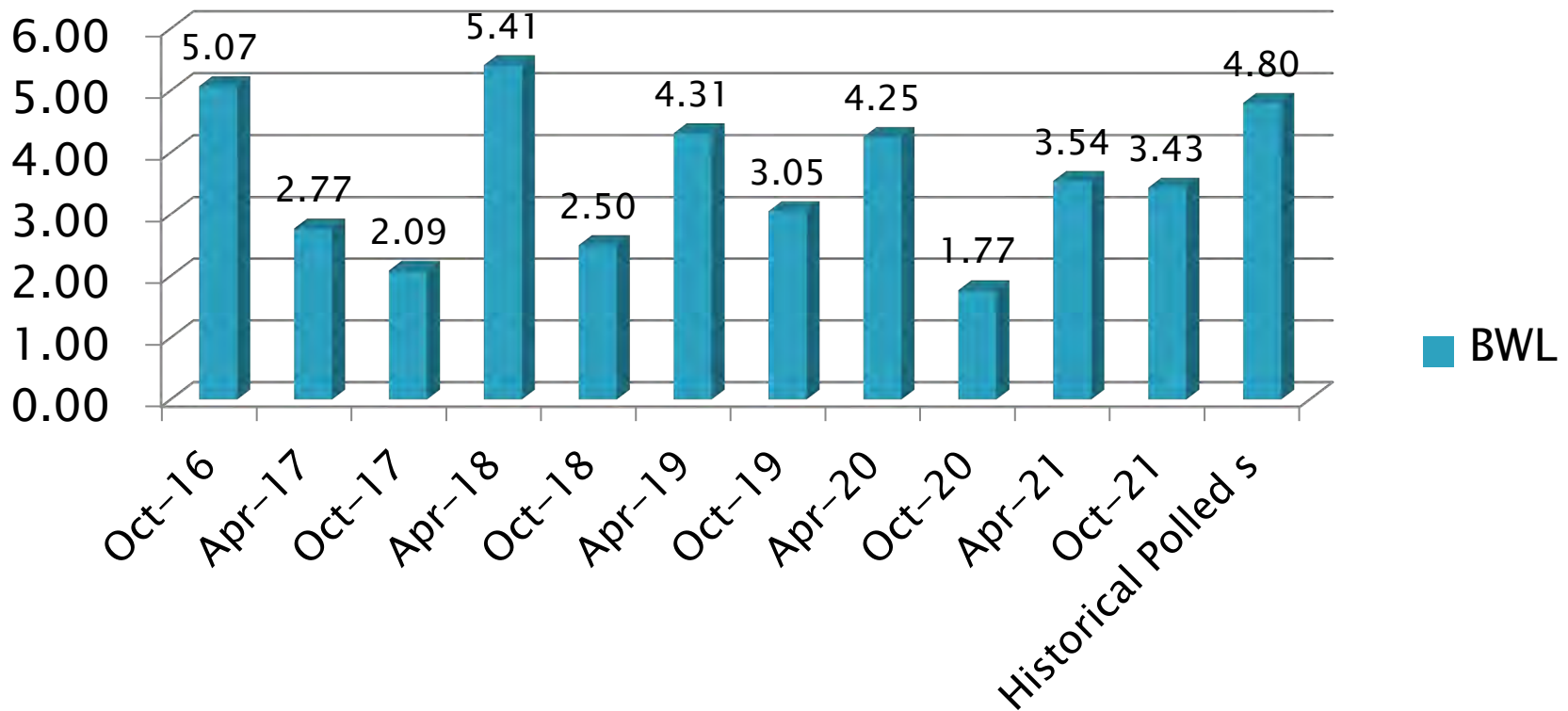


CUSUM Severity Analysis



Sequence VIII Precision Estimates

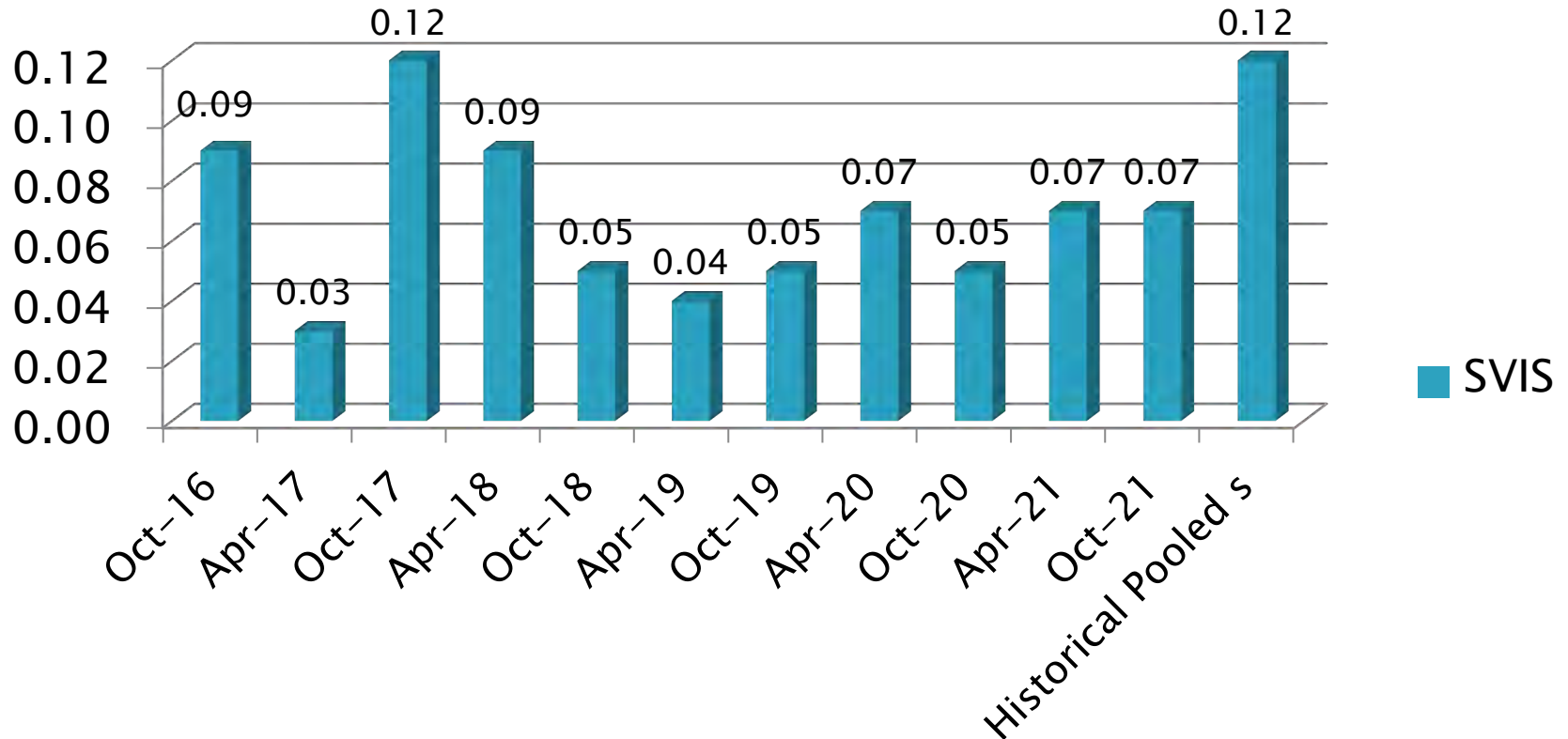
BWL



Sequence VIII Precision Estimates

SVIS

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



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