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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Sequence VIII Surveillance Panel Meeting March 28, 2012 Corpus Christi, TX

Please send any corrections to:
Charlie Leverett
Charlie.leverett@intertek.com
(210) 647-9422

The meeting was called to order at 3:00 by the Chairman Fred Gerhart.

The agenda is shown in Attachment #1

The sign-in sheet was sent around, there were 8 voting members present and 1 on the conference phone. This sheet is shown in Attachment #2.

The last meeting minutes were accepted.

Old Business

The Action Items from the May 2010 meeting were reviewed.

The Chairman did have a discussion on the need for a current category Reference oil and again request.

New Business

CPD report – The full report can be found in Attachment #3

- a. Bearing inventory = 490 sets
- b. The availability of Pb Alloy has been confirmed by the supplier to be available for years to come.

TMC report – The full report can be found in Attachment #4, please note this is in a new format which we will see going forward.

Alternate Test Fuel for GF6 - A possible alternative to KA24E Green fuel was reviewed and * Charlie Leverett mentioned he may be able to locate the original data when this test was switched from the Leaded to Un-Leaded fuel. Fred and Charlie will get with the supplier to discuss the decrease in the need for the current KA24E fuel if not used in the Sequence IVB (IVA Replacement). Kurt Knapp of Chevron/Phillips mention they do blend special fuels and maybe able to produce a replacement if needed.

** Charlie could not locate the original work done on different fuels, this was done in the 1996-197 time period if anyone may have these files archived, I believe it was presented by Brian Kohler of SwRI.*

Review Scope and Objectives – The Chairman noted he would email this to the panel for review.

Next Meeting

At the call of the Chairman, Fred did mention due to the fact this test is and has been under control he would like to limit any meetings needed to conference calls, the SP agreed.

Adjournment

The meeting was adjourned at 3:20.

Attachment #1

Sequence VIII Surveillance Panel Agenda

Southwest Research Institute


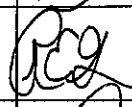
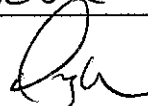
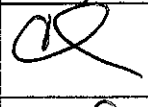


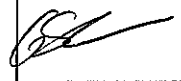
Corpus Christi, Texas

March 28, 2012

3:00 PM – 5:00 PM

1. Call to Order
 - a. Attendance Sign-in
 - i. Membership changes?
 - ii. Quorum?
 - b. Acceptance of Agenda
 - c. Motion and Action Items Recorder
2. Old Business
 - c. Review of Action Items from May 2010 Meeting
3. CPD report
 - d. Bearing inventory
 - e. Availability of Pb Alloy?
4. TMC report
5. New business
 - a. Alternative to KA24E Green fuel.
6. Review Scope and Objectives
7. Next Meeting
8. Adjournment




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

Name	Address	Phone/Fax/Email	Attendance
Bowden, Dwight	OH Technologies, Inc. P.O. Box 5039 Mentor, OH 44061-5039	Phone: 440-354-7007 Fax: 440-354-7080 dhbowden@ohtech.com	
Buscher, Jr., Bill	Buscher Consulting Services P.O. Box 112 Hopewell Jct., NY 12533	Phone: 845-897-8069 Fax: 845-897-8069 BuschWA@aol.com	
Caudill, Timothy	Valvoline 21st and Front Streets Ashland, KY 41101	Phone: 606-329-1960 ext 5708 Fax: 606-329-2044 Tcaudill@ashland.com	
Gerhart, Fred	Southwest Research Institute 6220 Culebra Road P.O. Box 28510 San Antonio, TX 78228-0510	Phone: 210-522-3842 Fax: 210-684-7523 fgerhart@swri.org	F.W.G.
Glaenger, David	Afton Chemical 500 Spring Street P.O. Box 2158 Richmond, VA 23218	Phone: 804-788-5214 Fax: 804-788-6358 Dave.Glaenger@aftonchemical.com	
Grundza, Rich	ASTM/TMC 6555 Penn Ave Pittsburgh, PA 15206-4489	Phone: 412-365-1031 Fax: 412-365-1047 reg@astmtmc.cmu.edu	
Knight, Clayton	Test Engineering Inc. 12718 Cimarron Path San Antonio, TX 78249-3423	Phone: 210-690-1958 Fax: 210-690-1959 cknight@tei-net.com	
Leverett, Charlie	Intertek 5404 Bandera Road San Antonio, TX 78238	Phone: 210-647-9422 Fax: 210-523-4607 charlie.leverett@perkinelmer.com	
Matthews, Bruce	GM Powertrain Mail Code 483-730-472 823 Jocyn Avenue Pontiac, MI 48340	Phone: 248-830-9197 Fax: 248-857-4441 bruce.matthews@gm.com	
Tang, Haiying	Chrysler	Phone: Fax: ht146@chrysler.com	
Miranda, Timothy	BP Lubricants USA 1500 Valley Rd Wayne, NJ 07470	Phone: 973-305-3334 Fax: 973-686-4039 Timothy.Miranda@BP.com	
Ramono, Ron	Ford Motor Company Diagnostic Service Center II Room 410 1800 Fairlane Drive Allen Park, MI 48101	Phone: 313-845-4068 Fax: 313-323-8042 rromano@ford.com	
Ritchie, Andy	Infineum P.O. Box 735 1900 East Linden Ave. Linden, NJ 07036-0735	Phone: 908-474-2097 Fax: 908-474-3637 andrew.ritchie@infineum.com	By phone
Sutherland, Mark	Chevron Oronite Company LLC 4502 Centerview Ste. 210 San Antonio, TX 78228	Phone: 731-5605 Fax: 731-5621 MSUT@chevrontexaco.com	
Szappanos, George	Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-2631 Fax: 440-347-4096 George.Szappanos@lubrizol.com	

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

Name	Address	Phone/Fax/Email	Attendance
Bill Buscher	Swri	wbuscher@swri.edu	WAB
PAT LANG	SwRI	plang@swri.org	P.L.
Karin Haumann	SwRI	Karin.Haumann@swri.org	KH Hcup
CHRISTIAN PORTER	AFTON	CHRISTIAN.PORTER@AFTONCHEMICAL.COM	
Ed Altman	Afton	Ed.Altman@Aftonchemical.com	EA
Doyle Boese	Infinium	doyle.Boese@infinium.com	DAB
MATTHEW BOWDEN	OH TECHNOLOGIES	msbowden@ohtech.com	MB
JERRY BRYS	LUBRIZOL	JEROME.BRYS@LUBRIZOL.COM	JB
ROBERT STOCKWELL	GM	ROBERT.STOCKWELL@GM.COM	RTS
Scott Stap	Chev Performance	Scott.Stap@tgidirect.com	SS
Jeff Kethman	Chev Perf	jeff.kethman@gm.com	JK

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

Name	Address	Phone/Fax/Email	Attendance
KURT KNAPP	CHEVRON PHILLIPS CHEMICAL Fuels	KNAPPKA@cpchem.com	
JO MARTINEZ	ORONITE Richmond, CA	jogm@chevron.com	
SEAN MOYER	TMC PITTSBURGH, PA	sam@astmtmc.cmu.edu	
JEFF CLARK	TMC Pittsburgh, PA	jac@astmtmc.cmu.edu	JCL
MATT Snidder	GM		on phone

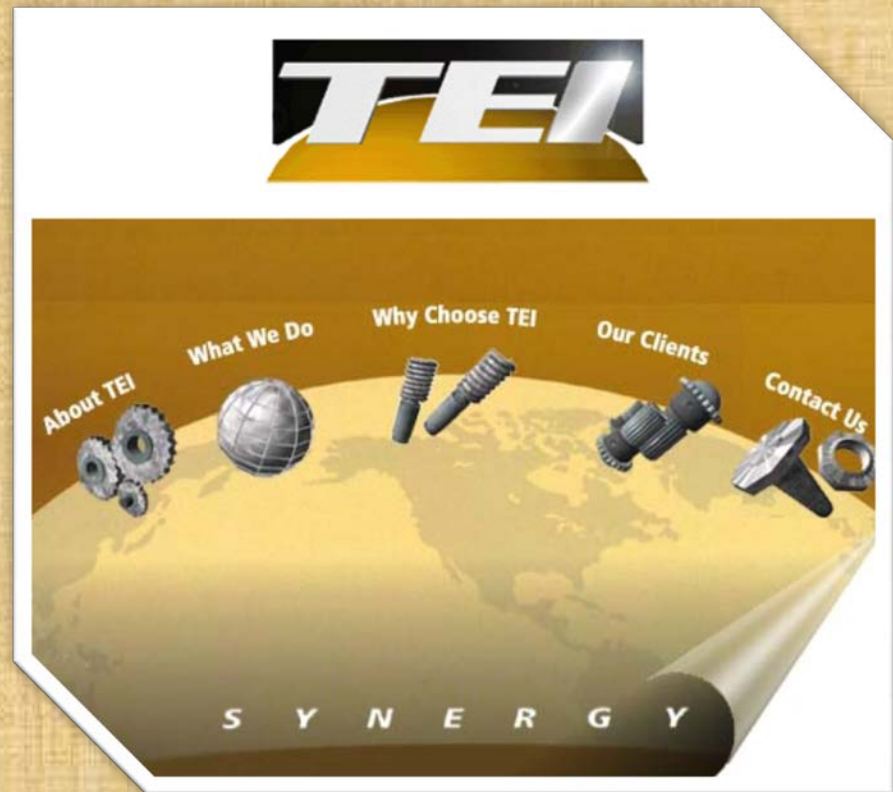


**100034-1 Connecting Rod Bearings
Batch 09/2010**

490 sets in stock at TEI



LEAD Based Powder Mix used in the production of Labeco bearings will be available for future productions with no plans to phase it out per Paul Ovares, Federal Mogul



2012 Annual Order

Solicitation Letters for Labeco annual parts order were mailed out to the labs in early January 2012 and are in process of being filled.



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ASTM D02.B1 Semi-Annual Report Passenger Car Reference Oil Testing

April 2012

Passenger Car Engine Oil Testing Executive Summary

- ▶ VIB
 - No test activity this period.
- ▶ VID
 - Targets Updated in December for reference oil 1010.
 - Results reported on new blend of 541
- ▶ VIII
 - No significant monitoring issues.

Calibrated Labs and Stands*

Test	Labs	Stands
IIIF	4	4
IIIG/A/B	6	16
IVA	3	4
VG	4	8
VIB	0	0
VID	6	12
VIII	2	3

*As of 3/23/2012

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Test Activity Levels

»» October 1, 2011 –
March 31, 2012

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Failed Tests

Test Status	Test	Number of Tests
Screened ACLW >20µm	IIIF	1
Severe Viscosity Increase	IIIG	1
Severe Viscosity Increase and WPD	IIIG	1
Mild Average Cam Wear	IVA	4
Stand EWMA Precision Alarm, FEI2	VID	1
Severe Stripped Viscosity Result	VIII	2
Severe Stripped Viscosity, BWL Precision Alarm	VIII	1
Total		10

Lost Tests*

*Invalid and aborted tests

Test Status	Cause	IIIF	IIIG	IVA	VG	VID	VIII
Aborted	Oil Temperature Control	1	0	0	0	0	0
Aborted	Blown Head Gasket	0	1	0	0	0	0
Invalid	Engine Oil Thermocouple Failed	0	0	1	0	0	0
Invalid	Knock Sensor Wiring Issue	0	0	0	0	1	0
Total		1	1	1	0	1	0

Test Severity

»» October 1, 2011 –
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Test Severity (cont.)

▶ VID

- FEI1 and FEI2 are in control.

- Charts shown in [Appendix 1.e.](#)

▶ VIII

- BWL and SVIS parameters are in control.

- Charts shown in [Appendix 1.f.](#)

Test Precision

»» October 1, 2011 –
March 31, 2012

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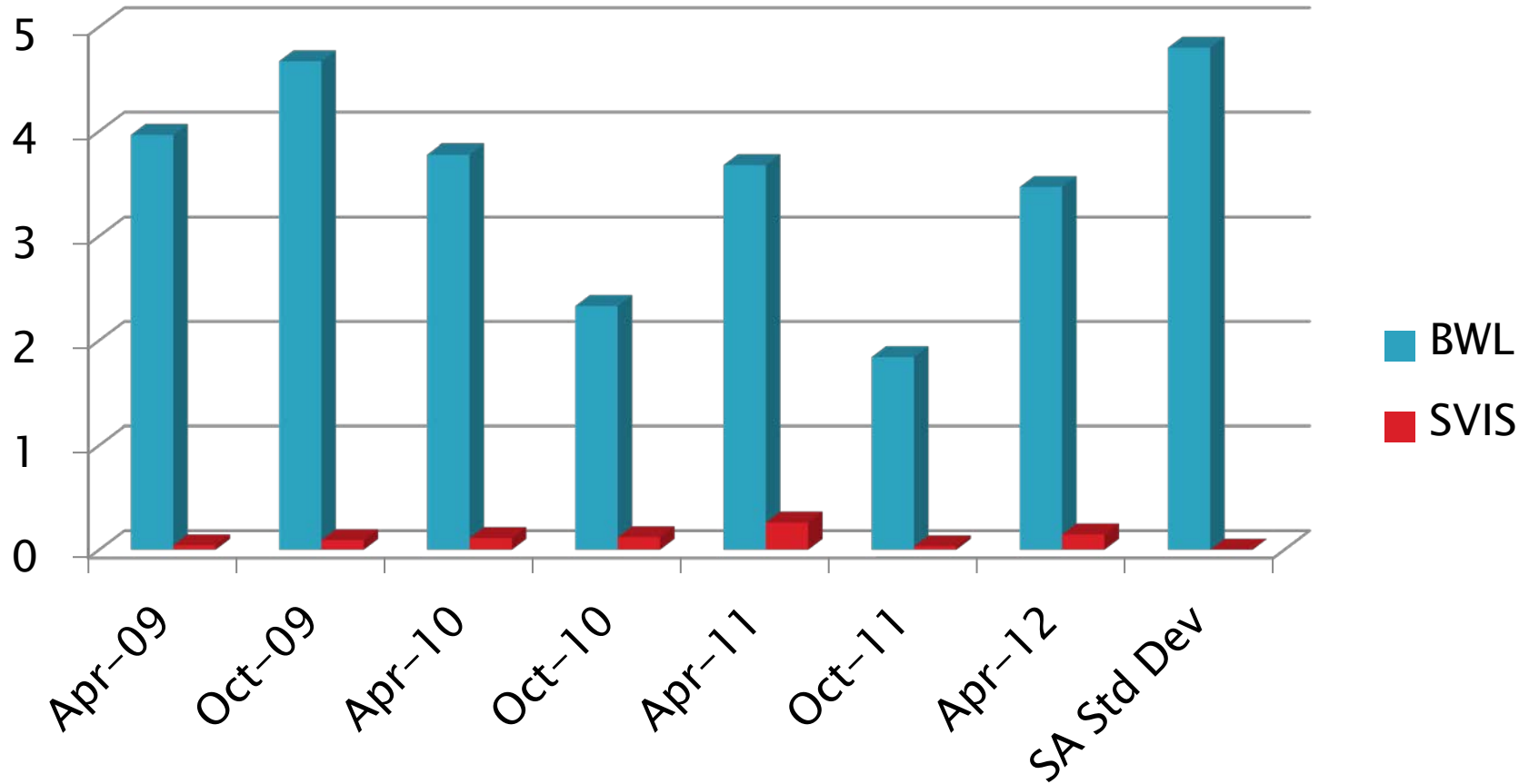


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Test Precision Estimates

- ▶ Presented on an six month basis.
- ▶ Data presented for past four years.

Sequence VIII Precision Estimates



Information Letters

»» October 1, 2011 –
March 31, 2012

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Information Letters*

Test	Date	IL	Topic
IIIG	November 29 , 2011	11-4, Seq. 34	Added provisions for strainers in coolant system Updated tolerances for cam and lifter measurement devices
IIIG	December 12, 2011	11-5, Seq. 35	Added First-in, First-out criteria for specific hardware and corrected harmonic balancer p/n
VID	January 11, 2012	12-1, Seq. 9	Clarified procedure for oil additions during new engine break-in

*Available from TMC Website

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Reference Oil Inventory

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

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Reference Oil Re-blends

➤ Oils with ~ 2 years or less supply

- Re-blends no longer available
- Oils Affected
 - 925-3 and 1007
 - A replacement oil for 925-3 is being pursued and will be addressed during next meeting
 - 1007 to be replaced with 1006-2 in IVA

Reference Oil Re-blends

- Oils with ~ 2 years or less supply
 - Re-blends available
 - Oils Affected
 - 541-1 and 435-2
 - Both Test areas actively working on introducing these reblends.
 - 435-2 targets to be reviewed at next meeting

Reference Oil Inventory Estimated Life

Oil	Tests	Original Blend Amount	Quantity Shipped in last 6 months	TMC Inventory	Lab Inventory	Estimated Life
433-1	IIIF	1045	40	198	48	2.5 years
434	IIIG	550	0	5	12	<1 year
434-1	IIIG	660	0	254	24	5+ years
435	IIIG	550	0	2	4	<1 year
435-2	IIIG	550	37	437	28	5+ years
438	IIIG	990	24	712	32	5+ years
540	VID	1100	25	463	40	5+ years
541	VID	550	35	5	45	<1 year

Reference Oil Inventory Estimated Life

Oil	Tests	Original Blend Amount	Quantity Shipped in last 6 months	TMC Inventory	Lab Inventory	Estimated Life
541-1	VID	550	25	515	20	5+ years
542	VID	1100	85	358	65	5+ years
704-1	VIII	897	12	206	10	5+ years
925-3	VG	975	0	10	6	<1 year
1006-2	IVA, VG, VIII	5500	91	3772	63	5+ years
1007	IVA, VG	1968	40	21	41	<1 year
1009	IVA, VG	1100	34	379	33	5+ years
1010	IIIG, VID	1100	55	712	60	5+ years

LTMS Deviations

»» October 1, 2011 –
March 31, 2012

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LTMS Deviations

- One IVA LTMS Deviation in Current Period
 - Test sounded a stand precision EWMA Alarm, cleared after one test
 - Alarm due to change in hardware and oil selection
 - Stand calibrated with out additional tests

Historical Count of PCEO LTMS Deviations

Test	LTMS Deviations
IIIF	5
IIIG	5
IVA	6
VG	8
VID	1
VIII	3

TMC Laboratory Visits

»» October 1, 2011 –
March 31, 2012

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TMC Lab Visits

- Two III lab visits this period.

No issues at one lab, identified discrepancies in fuel injector flow measurements

- Two VID lab visits this period.

No issues identified during visits.

Test Area Timelines

»» October 1, 2011 –
March 31, 2012

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Test Area Timeline Additions

Test	Date	Topic	IL
IIIG	20111129	Added provisions for strainers in coolant system Updated tolerances for cam and lifter measurement devices	11-3
IIIG	20111212	Added First-in, First-out criteria for specific hardware and corrected harmonic balancer p/n	11-4
VID	20120111	Clarified procedure for oil additions during new engine break-in	12-1
IVA	20120204	Reintroduced reference oil 1006-2, targets with N = 4	
IVA	20120209	Updated standard deviation for severity adjustments	

*As of 3/31/2012

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Additional Information

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March 31, 2012

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Additional Information

- ▶ Available on TMC Website:
 - Live Reference Test Data Bases
 - Surveillance Panel Meeting Minutes
 - Test Area Alarm Logs
 - Complete Test Area Timelines
 - LTMS Manual

- ▶ www.astmtmc.cmu.edu



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Appendix 1 PCMO Reference Oil Testing Control Charts

April 2012

Appendix 1.f

Sequence VIII Control Charts

» Severity, Precision, and CuSum

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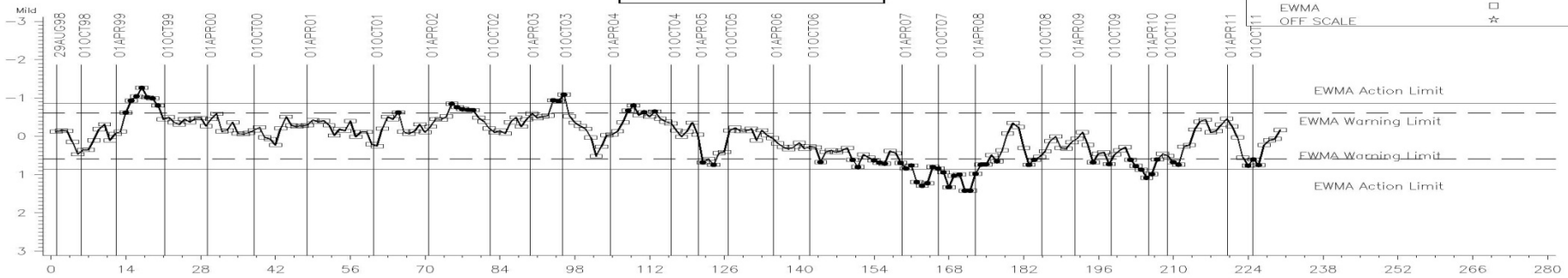
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SEQUENCE VIII VIII INDUSTRY OPERATIONAL VALID DATA

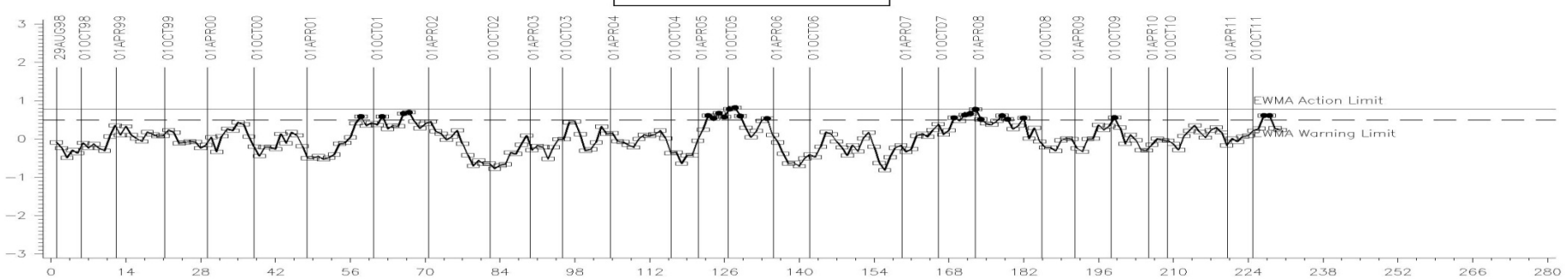
FINAL BEARING WEIGHT LOSS



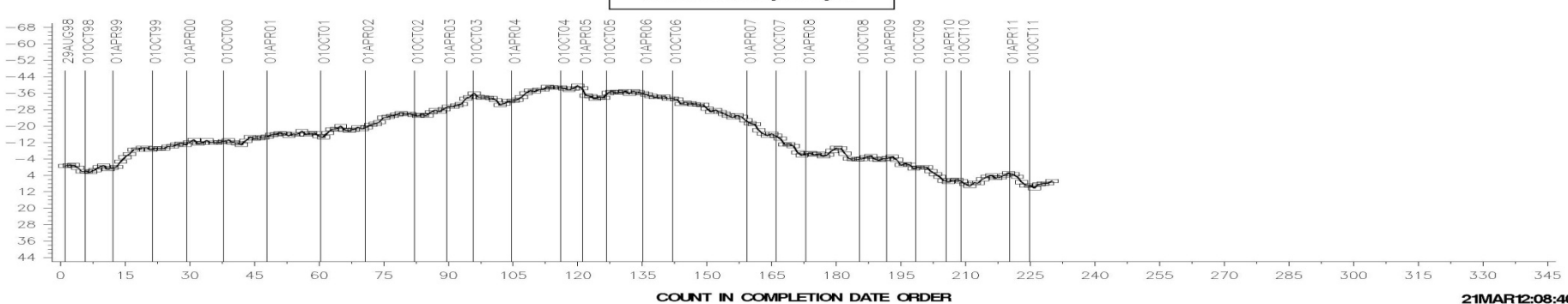
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis



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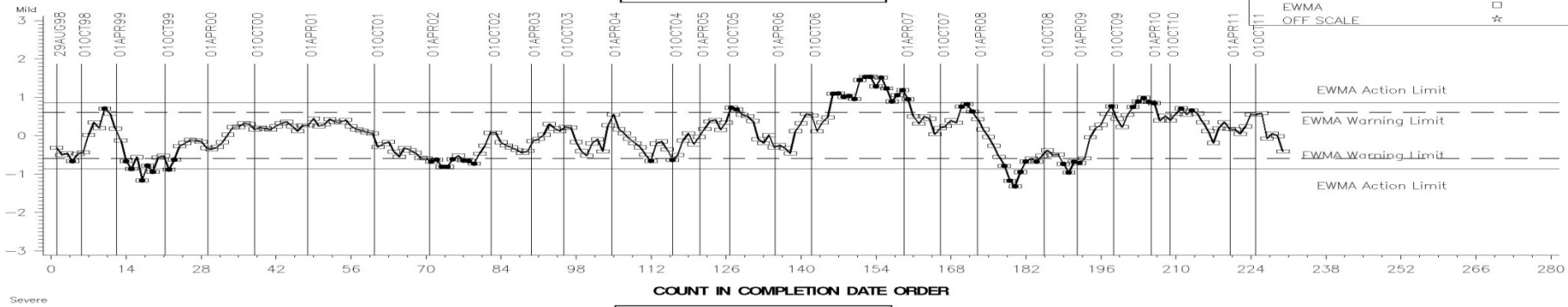


SEQUENCE VIII INDUSTRY OPERATIONAL VALID DATA

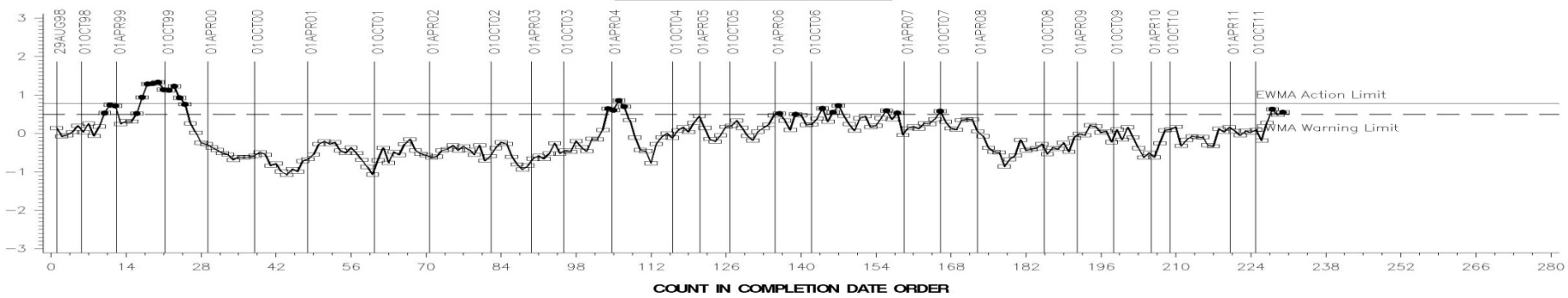
STRIPPED VIS. @ 100 DEG C



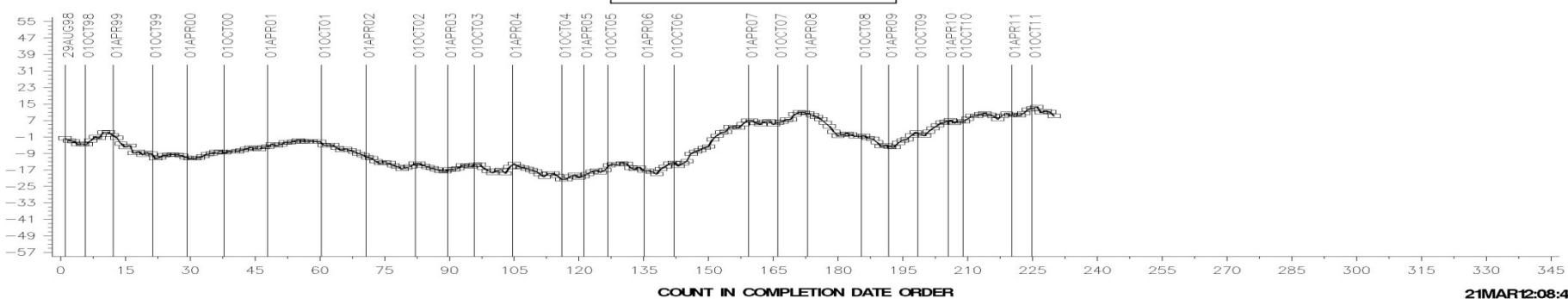
LTMS Severity Analysis



LTMS Precision Analysis



CUSUM Severity Analysis



21MAR12:08:40

[Return](#)

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