

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

August 11, 2021

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel Microsoft Teams virtual meeting was called to order by D. Bell at 11:15 am on 8/11/2021, and the agenda was reviewed.

The 12 OSCT Surveillance Panel voting member list below was reviewed. A motion made by W. Venhoff and 2nd by B. Grinfield was unanimously approved with 8 votes to substitute V. Donndelinger with Wes Venhoff from Lubrizol as a voting member effective immediately.

- D. Bell Afton (Chair)
- A. Comfort Army
- T. Muransky AAM
- R. Banas ExxonMobil
- B. Grinfield SWRI
- V. Donndelinger Lubrizol
- C. Knight TEI
- J. Carter Meritor
- M. Cabaj Linamar
- D. Beck TMC
- M. Lopez Intertek
- D. Mosher BASF

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 8 votes to approve the OSCT meeting minutes posted to the TMC website for 5/12/2021.

Labs C and G can conduct ASTM D5662 PA, FL, and NI tests with no known stand/bath issues.

The polyacrylate (PA) qualification status and Test Engineering Institute's (TEI) elastomer inventory were reviewed.

- PA365 TEI has 0 approved slabs
- PA366 TEI has 281 approved slabs
- PA367 TEI has 259 approved slabs
- PA368 TEI has 259 approved slabs

TEI was instructed to send out the oldest slabs first to avoid shelf life issues.

The fluoroelastomer (FL) qualification status and TEI's elastomer inventory were also reviewed.

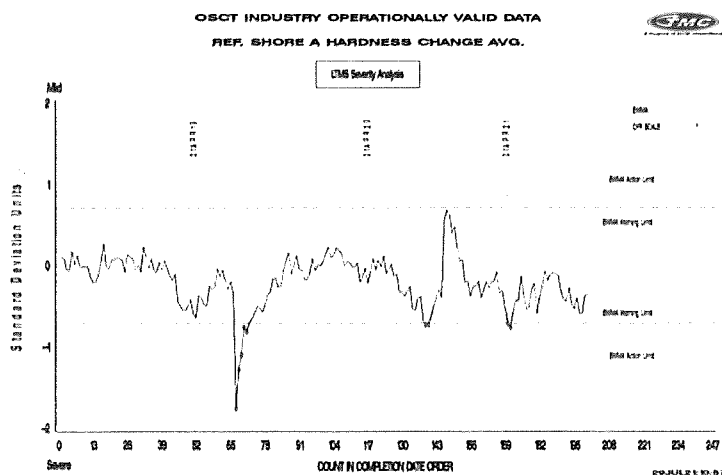
- FL410 TEI has 18 approved slabs
- FL411 TEI has 0 approved slabs
- FL412 TEI has 98 approved slabs
- FL413 TEI has 178 unapproved slabs sent out for qualification so both Labs to confirm they were received
- FL414 TEI recently ordered

The nitrile (NI) qualification status and TEI's elastomer inventory were also reviewed.

- NI350 TEI has 0 slabs since expired 4/30/2021 since beyond 3 year shelf life
- NI351 TEI has 138 approved slabs that will expire 2/24/2022
- NI352 TEI ordered 5/2021 but will not ship until 9/2021 due to raw material shortage

TMC reviewed the following recent industry plots since several alarms have been received by the Chairman over the past several months.

OSCT – Industry Severity – SAHA

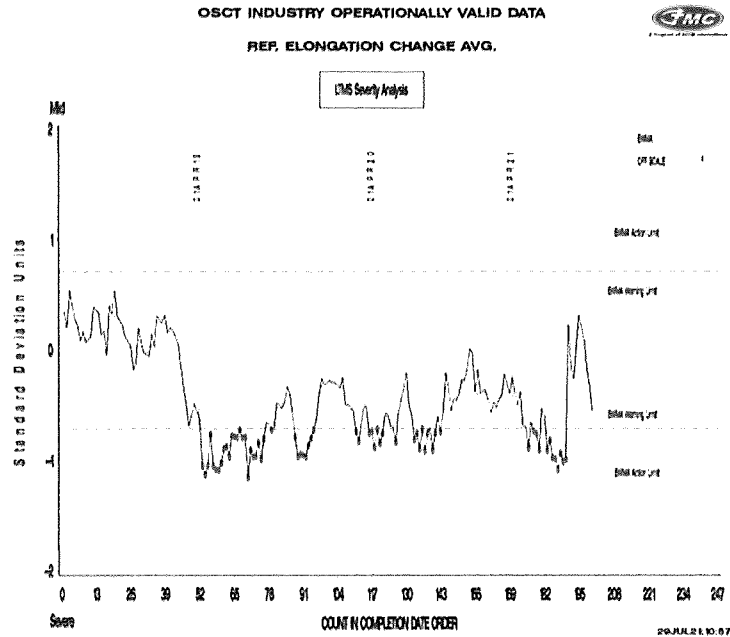


Test Monitoring Center
<http://astmcmc.cmu.edu>



Program 11 ASTM International

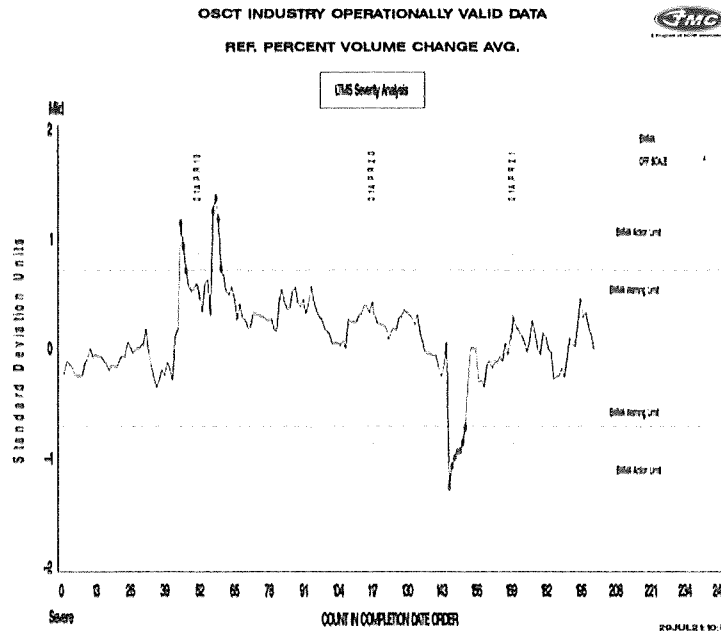
OSCT – Industry Severity – PELA



Test Monitoring Center
<http://astmtmc.cmu.edu>



OSCT – Industry Severity – PVCA



Test Monitoring Center
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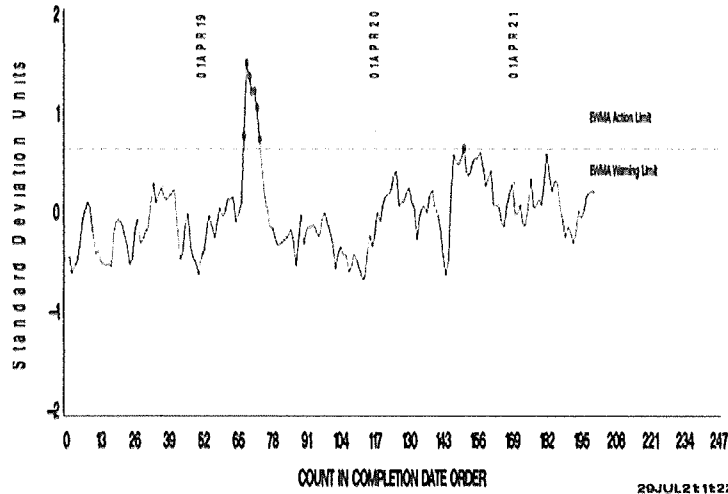
OSCT – Industry Precision – SAHA

OSCT INDUSTRY OPERATIONALLY VALID DATA



REF. SHORE A HARDNESS CHANGE AVG.

LTMS Precision Analysis



20JUL21:11:22

Test Monitoring Center
<http://axtmtmc.cmu.edu>



A Program of AMT International

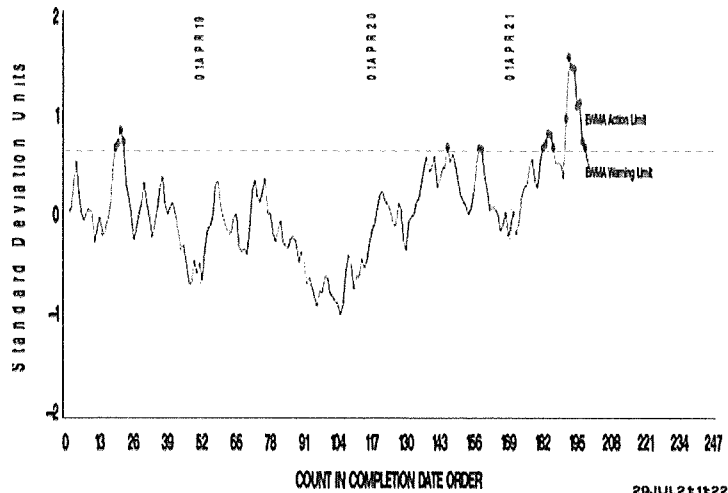
OSCT – Industry Precision – PELA

OSCT INDUSTRY OPERATIONALLY VALID DATA



REF. ELONGATION CHANGE AVG.

LTMS Precision Analysis



20JUL21:11:22

Test Monitoring Center
<http://axtmtmc.cmu.edu>



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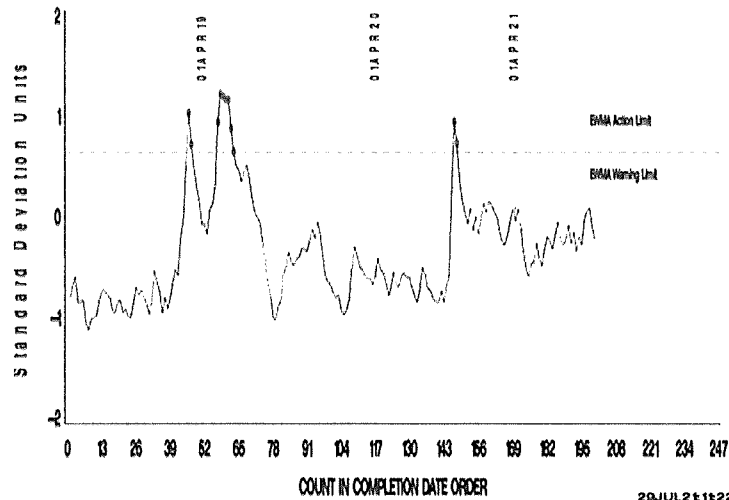
OSCT – Industry Precision – PVCA

OSCT INDUSTRY OPERATIONALLY VALID DATA



REF. PERCENT VOLUME CHANGE AVG.

LTMS Precision Analysis



20JUL251122

Test Monitoring Center
<http://astmtmc.cmu.edu>



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In summary, no concerns with shore hardness and %volume plots.

OSCT – Lab C Severity–PELA

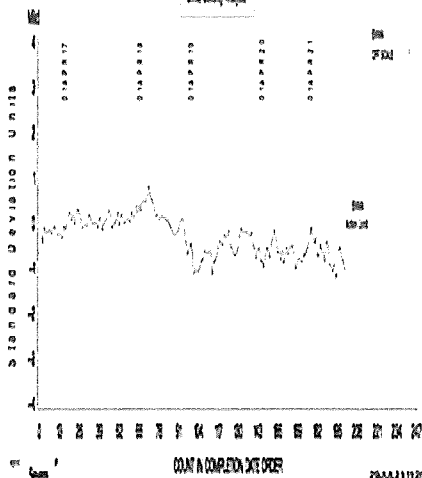
OSCT – Lab G Severity–PELA

OSCT LABORATORY OPERATIONALLY VALID DATA



REF. ELONGATION CHANGE AVG.

LTMS Severity Analysis



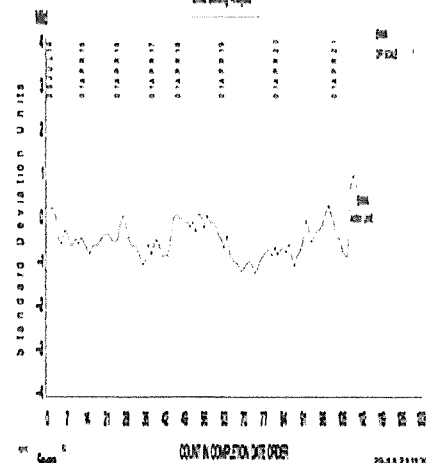
20AAS111120

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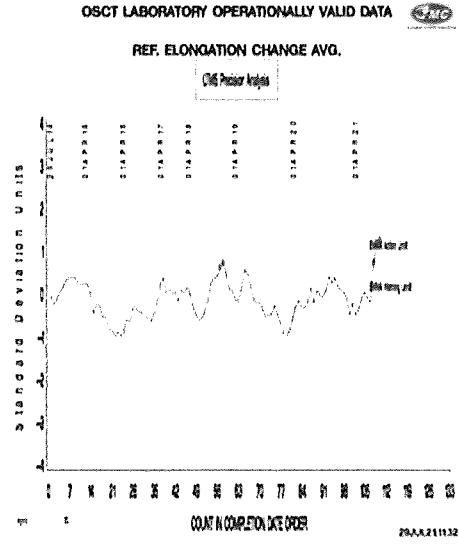
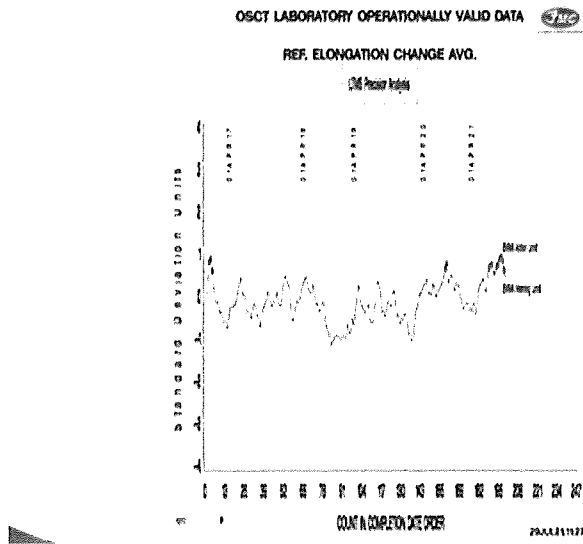
LTMS Severity Analysis



20AAS111120

OSCT - Lab C Precision- PELA

OSCT - Lab G Precision- PELA



%Elongation industry precision trend is from Lab C trending low of target and Lab G trending high of target. TMC and Chairman will keep an eye on the %elongation, and if alarms continue TMC will reach out to the labs to try to determine if they are performing the tests to the procedure. A decision will be made later in the year if lab visits by TMC is necessary once Covid-19 travel concerns/restrictions are lifted.

Two edits to the LTMS document were made effective 5/27/2021 as shown below highlighted in red.

Elastomer Type	Oil Assignments
PA	Assign reference oils 160, 161, 169 or 171 (or subsequent reblends) for every calibration sequence.
FL	Assign reference oils 160, 161, 169 or 171 (or subsequent reblends) for every calibration sequence.
NI	Assign reference oils 161, 162, 168, 169, or 170 (or subsequent reblends) for every calibration sequence.

The following are steps that must be taken in the case of exceeding control chart limits.

- Exceed test stand chart Shewhart limit for severity (all parameters)

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 8 votes to adjourn the OSCT Panel meeting at 11:31 am on 8/11/2021.

Respectfully Submitted,

Donald Bell/OSCT Chairman

Appendix

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: August 11, 2021

1 of 3

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail	
	NV	Nancy Aguirre	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: e-Mail:	210-647-9428 Nancy.AGUIRRE@Intertek.com
RB	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: e-Mail:	678-493-3930 Rob.a.banas@exxonmobil.com
DB	V	Dylan Beck	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: e-Mail:	412-365-1037 djb@astmtmc.cmu.edu
DB	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: e-Mail:	804-788-6332 don.bell@aftonchemical.com
	V	Mike Cabaj	McLaren/Linamar	Phone: e-Mail:	313-820-0119 Michael.cabaj@linamar.com
	V	Jason Carter	Meritor	e-Mail	Jason.carter@meritor.com
	NV	Jeff Clark	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: e-Mail:	412-365-1032 jac@astmtmc.cmu.edu
	V	Allen Comfort	US Army CCDG-GVSC RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: e-Mail:	586-282-4225 Allen.s.comfort.civ@mail.mil
	NV	Kristijan Drlja	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	KRDR@lubrizol.com
	NV	Brian Foecking	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: e-Mail:	440-349-2130 bjf@lubrizol.com
AG	NV	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: e-Mail:	914-785-2083 Arjun.goyal@basf.com
BB	V	Rebecca Grinfield	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: e-Mail:	210-522-3652 bgrinfield@swri.org

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail	
	NV	Derek Grosch	TEI	e-Mail:	dgrosch@tei-net.com
KG	NV	Kimberly Gutierrez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail:	kimberly.hernandez@intertek.com
DH	NV	Dan Horvath	Afton Chemical 2000 Town Center Southfield, MI 48075	e-Mail:	dan.horvath@aftonchemical.com
	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: e-Mail:	210-690-1958 cknight@tei-net.com
	NV	Dan Lanctot	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	e-Mail:	dlanctot@tei-net.com
	NV	Jessica LaBond	Meritor 2135 W. Maple Rd. Troy, MI 48084	Phone: e-Mail:	248-872-3055 jessica.labond@meritor.com
AL	NV	Anthony Lange	Intertek 5404 Bandera Rd. San Antonio, TX 78238	Phone: e-Mail:	210-634-1103 anthony.lange@intertek.com
ML	V	Mike Lopez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail:	mike.lopez@intertek.com
DM	V	Donna Mosher	BASF 100 Park Ave. Florham Park, NJ	Phone: e-Mail:	269-217-1715 Donna.mosher@basf.com
TM	V	Troy Muransky	AAM 1840 Holbrook Detroit, MI 48212	e-Mail:	troy.muransky@aam.com
MS	NV	Matt Sangpeal	Afton Chemical Ashland Technical Center 11289 Central Drive Ashland, VA 23005	Phone: e-Mail:	804-788-5364 matt.sangpeal@aftonchemical.com

PK NV Percy Kanga ExxonMobil (retired)

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail	
	NV	Eric Sattler	US Army CCDC-GVSC RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: e-Mail:	Eric.r.sattler.civ@mail.mil
RS	NV	Robert Slocum	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	robert.slocum@lubrizol.com
	NV	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: e-Mail:	412-855-6854 Dale.smith@intertek.com
WV	V	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	Wes.venhoff@lubrizol.com
RW	NV	Rebecca Warden	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: e-Mail:	210-522-6266 Rebecca.Warden@SWRI.org
	NV	Dairene Uy	Shell	e-Mail:	dairene.uy@shell.com
	NV	Khaled Zreik	General Motors	Phone: e-Mail:	248-977-9214 Khaled.zreik@gm.com
AZ	NV	Amy Zyski	Dana Inc. 3939 Technology Drive Maumee, OH 43537	Phone: e-Mail:	419-887-3432 Amy.zyski@dana.com