

# Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

February 8, 2017

Don Bell

## Participants:

Please see attached attendance list in Appendix.

An OSCT Surveillance Panel meeting was called to order by D. Bell at 1:00 pm on 2/8/2017 via Webex at PRI in Warrendale, PA.

The OSCT voting member list was reviewed with the Panel. Eaton has not identified a replacement voting member at this time, so the voting members dropped from 12 to 11. A motion made by B. Grinfield and 2<sup>nd</sup> by C. Knight was unanimously approved to replace A. Goyal of BASF with D. Mosher also from BASF as a new voting member. Another motion made by W. Venhoff and 2<sup>nd</sup> by A. Goyal was unanimously approved to replace W. Venhoff of Lz with V. Donndelinger of Lz as a new voting member. The attached attendance list was initialed by all attendees, and those who attended via phone are highlighted on the attendance sheet.

A motion made by J. Dharte and 2<sup>nd</sup> by W. Venhoff was unanimously approved to approve the OSCT Surveillance Panel meeting minutes from 11/2/2016 and 11/16/2016 that are posted on the TMC website.

There are multiple baths available at Lubrizol, SWRI, and one at Intertek (not NI) with no known issues for conducting ASTM D5662 testing.

The polyacrylate (PA) slab inventory at Test Engineering Institute (TEI) was reviewed as follows:

- PA356: Approved 8/19/2016 and TEI has 22 slabs
- PA357: TEI rejected due to 30 of 300 slabs failed thickness specification
- PA358: Sent to test labs for qualification testing on 9/19/16 and TEI has 186 slabs
  - TMC awaiting 160-1 re-run only from lab G
- PA359: TEI just received, so will send to all 3 labs shortly for qualification testing
- PA360: TEI was asked to place an order for this new lot

The fluoroelastomer (FL) slab inventory at TEI was reviewed as follows:

- FL401: Approved 2/3/2017, and TEI has 51 slabs
- FL402: TEI has 180 slabs
  - TMC awaiting data from lab C, which should arrive week of 2/13
- FL403: TEI has 185 slabs
  - TMC awaiting data from labs B & C

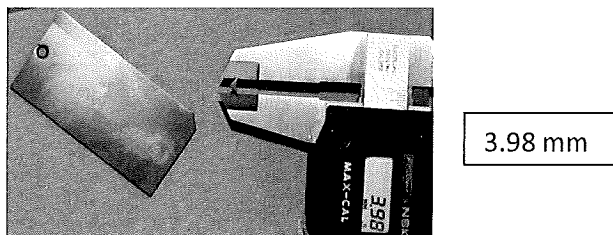
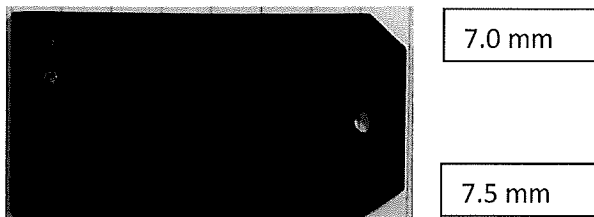
- FL404: TEI has 200 slabs
  - TMC awaiting data from labs B & C
- FL405: TEI is in the process of ordering

The nitrile (NI) slab inventory at TEI was reviewed as follows:

- NI347: TEI has 45 approved slabs
- NI348: TEI has 278 approved slabs

The test labs were requested to give higher priority to conducting the qualification testing for PA and FL seals upon receipt of the slabs from TEI to avoid inventory issues.

At the OSCT Surveillance Panel meeting on 11/16/2016, a motion was approved to require specimens used for volume and hardness measurements be cut on the corner for marking, but the hypotenuse is not to exceed 4 mm. The Panel discussed the various size of the hypotenuse that they have been using for many years and decided that 4 mm was too small since it was not representative. Below are slab marking examples shown by the labs:



A motion made by B. Grinfield and 2<sup>nd</sup> by V. Donndelinger was unanimously approved that requires coupon slabs that need to be cut, must be cut to 5 +/- 2 mm hypotenuse.

TMC noted that TMC 160-1 PA and FL reference oil inventory is running low since they have <18 gallons (94 samples). One drum of TMC 160-1 is being re-blended with an alternate base oil since the current one is no longer available. TMC will assign a new reference oil number, TMC 1xx, and alert all three labs when they ship it to them for each lab to conduct 1 run each per elastomer with the new reference oil and report results to TMC.

As per a motion at the 5/11/2016 Panel meeting, all three labs are in the process of conducting D5662 testing on PA and FL with TMC 155-1 category reference as is required every September to ensure D5662 stays well in-control. TMC is awaiting data only from lab G due to a re-run, so when this data is submitted, S. Parke from TMC will graph the data and distribute via email to the Panel.

A motion made by B. Grinfield and 2<sup>nd</sup> by J. Dharte to adjourn the meeting at 1:28 pm on 2/8/2017 was unanimously approved.




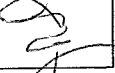
Respectfully Submitted,

Don Bell

# Appendix

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: Feb. 8 2017

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: 210-647-9428 FAX: e-Mail: Nancy.AGUIRRE@Intertek.com
	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 FAX: e-Mail: Rob.a.banas@exxonmobil.com
	NV	Tony Barrera	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: FAX: e-Mail: Tony.barrera@intertek.com
	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-6332 FAX: 804-788-6243 e-Mail: don.bell@aftonchemical.com
	NV	Brad BuBonic	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-5325 FAX: 440-347- e-Mail: Brad.bubonic@lubrizol.com
	NV	Harold Chambers	Linamar Driveline Systems Travelers Tower 1 26555 Evergreen Rd. Ste. 900 Southfield, MI 48076	Phone: 248-358-6038 FAX: 248-355-3558 e-Mail: hchambers@Linamar.com
	NV	Jeff Clark	Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1032 FAX: 412-365-1047 e-Mail: jac@astmtmc.cmu.edu
	V	Allen Comfort	US Army TACOM RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: 586-282-4225 FAX: 586-282-4244 e-Mail: Allen.s.comfort@us.army.mil
	V	John Dharte	American Axle 1 Dauch Drive Detroit, MI 48211	Phone: 313-758-4687 FAX: 313-758-4237 e-Mail: dhartej@aam.com




# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: \_\_\_\_\_

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
<i>JD</i>	NV	Vince Donndelinger	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-6589 FAX: 440-347- e-Mail: Vince.donndelinger@lubrizol.com
<i>ED</i>	NV	Eric Donovan	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-5097 FAX: e-Mail: Eric.donovan@aftonchemical.com
<i>BD</i>	NV	Bridget Dwornick	US Army RDECOM/TARDEC RDTA-DP/210 MS 110 6501 E 11 Mile Road Warren, MI 48397-5000	Phone: 586-282-4221 FAX: 586-282-4244 e-Mail: Bridget.l.dwornick.civ@mail.mil
<i>BF</i>	NV	Brian Foecking	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-2130 FAX: 440-347- e-Mail: bjf@lubrizol.com
<i>Arjun</i>	V	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: 914-785-2083 e-Mail: Arjun.goyal@basf.com
<i>RG</i>	V	Rebecca Grinfield <i>(Back by phone)</i>	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-3652 FAX: 210-522-5907 e-Mail: bgrinfield@swri.org
	NV	Percy Kanga	ExxonMobil Research and Engineering 600 Billingsport Rd. Paulsboro, NJ 08066	Phone: 856-224-2094 FAX: 856-224-3613 e-Mail: Percy.r.kanga@exxonmobil.com
<i>WKM</i>	NV	Bill Kearney	Afton Chemical Corp Southfield, MI	Phone: 248-350-0640 FAX: e-Mail: Bill.kearney@aftonchemical.com
<i>MK</i>	NV	Marc Keisler	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-5617 FAX: e-Mail: Marc.keisler@aftonchemical.com





# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL



Date: \_\_\_\_\_


Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: 210-690-1958 FAX: 210-877-0228 e-Mail: cknight@tei-net.com
	NV	Dan Lanctot	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: FAX: e-Mail: dlanctot@tei-net.com
	NV	Chris Lonsway	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-4517 FAX: e-Mail: Chris.Lonsway@lubrizol.com
	V	Mike Lopez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail: mike.lopez@intertek.com
	NV	Jeff Milner	Tianhe Chemical	Phone: 804-252-6928 e-Mail: jmilner@Tianhe.us.com
	NV	Andreas Minke	BASF	Phone: e-Mail: Andreas.minke@basf.com
	NV	Ronny Mumaw	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-8017 FAX: e-Mail: Ronny.mumaw@lubrizol.com
	NV	Robert Opperman	Meritor 2135 West Maple Rd. Troy, MI 48084	Phone: 248-435-1544 FAX: 248-435- e-Mail: Robert.Opperman@meritor.com
	V	Scott Parke	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1033 FAX: 412-365-1047 e-Mail: sdp@astmtmc.cmu.edu
	NV	Jule Rucker	Meritor 2135 West Maple Rd. Troy, MI 48084	Phone: 248-435-1430 FAX: 248-435- e-Mail: Jule.Rucker@meritor.com


# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: \_\_\_\_\_

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Eric Sattler	US Army TACOM RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: 586-282-2272 FAX: 586-282- e-Mail: Eric.r.sattler.civ@mail.mil
	NV	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 412-855-6854 FAX: e-Mail: Dale.smith@intertek.com
	NV	Angela Trader	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 210-706-1533 FAX: e-Mail: Angela.trader@intertek.com
	NV	Chintan Ved	Ford 35500 Plymouth Road Livonia, MI 48150	Phone: 313-805-9495 FAX: e-Mail: cved@ford.com
	V	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: FAX: e-Mail: Wes.venhoff@lubrizol.com
	NV	Rebecca Warden	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-6266 FAX: e-Mail: Rebecca.Warden@SWRI.org
	NV	Khaled Zreik	General Motors	Phone: 248-977-9214 FAX: e-Mail: Khaled.zreik@gm.com

 NV  SW RI  
 Same as Ms. Garofield  
 LUBRIZOL  
 210-522-3588  
 bkeckler@swri.org  
 vera.marsic@lubrizol.com

 NV VERA MARSIC  
 Vera Marsic@lubrizol.com

 V Donna Mosher  
 BASF  
 100 Park Ave  
 Florham Park, NJ  
 209-217-1715  
 donna.mosher@basf.com