

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

February 18, 2015

Don Bell

Participants: Please see attached membership list in Appendix.

The OSCT Surveillance Panel meeting was called to order at 1:03 pm on 2/18/2015.

The Panel reviewed the 12 voting member list and confirmed it was accurate, and a motion was passed unanimously (8 approvals) by A. Goyle and 2<sup>nd</sup> by A. Trader to add Olga Dykhno of BASF as a new voting member.

A motion made by D. Bell and 2<sup>nd</sup> by J. Dharte to approve the OSCT Surveillance Panel meeting minutes on the TMC website from 11/12/2014 was unanimously approved with 8 votes.

There are multiple baths available at Lubrizol and SWRI for conducting ASTM D5662 testing. Intertek has one bath for conducting polyacrylate and fluoroelastomer seals, but not nitrile. Intertek decided it was not economically justified to set-up for nitrile testing since it is not a J2360 seal requirement and thus volume demand is very low. There are no bath related issues or severity issues.

The following seal inventory at Test Engineering Institute (TEI) was reviewed and found that seal inventory has been adequate to keep up with demand.

PA351	TEI has 267 slabs - sent to all 3 labs for qualification testing on 11/12 <ul style="list-style-type: none"><li>• Lab b: not reported</li><li>• Lab c: OK in 160-1 &amp; 169</li><li>• Lab g: NOT OK in 160-1 (asked to repeat), OK in 169</li></ul>
PA352	TEI has 267 slabs – sent to all 3 labs for qualification testing on 12/19
FL394	TEI has 0 after releasing ~167 slabs for sale upon approval on 2/3
FL395	TEI has 167 slabs – sent to all 3 labs for qualification testing on 11/17
FL396	TEI ordered 200 slabs on 2/3
NI344	TEI has ~152 slabs that were approved 2/13 for sale
NI345	TEI has 340 slabs – sent to all 3 labs for qualification testing on 12/15
NI346	TEI has 280 slabs – sent to all 3 labs for qualification testing on 1/16

The Panel was reminded of the new seal qualification testing approval process that was approved in November 2014. All three labs send qualification testing to Test Monitoring Center (TMC) as usual. If all of the data is within acceptance bands, TMC issues an email to the OSCT

Surveillance Panel voting members noting that seal xx will be approved within 48 hours unless someone objects. If not objections, the seal xx is approved and TEI and chairman is notified that the lot can be released for sale. If there are objections, chairman will call an OSCT Panel meeting to discuss in more detail. Thus far, two seal lots (FL394 and NI344) have been successfully approved with the new process.

The Panel reviewed the current inventory of TMC reference oils for seals that are currently at the test labs and TMC as shown below:

Reference Oil	Cans @ Test Labs	Cans @ TMC
TMC 160-1	29	249 (~49 gals)
TMC 169	19	1163 (~230 gals)
TMC 168	39	33 (~6 gals)

TMC 168 for nitrile referencing is nearing depletion and can no longer be blended, so a new replacement is needed. Lubrizol reviewed their NI seal data, but were not able to identify a potential alternate oil that gives similar nitrile results to TMC 168 on the table below. Afton was able to identify a potential replacement oil with results similar to TMC 168 as shown below. Afton will perform additional seal testing on NI with this potential replacement for review of the data with the OSCT Panel at the May 2015 ASTM meeting.

	TMC 168	Potential Replacement GOR627P00
% elongation change	-74.5	-70.4
% vol change	1.32	2.0
Shore hardness	3	2.5

A motion to adjourn made by D. Bell and 2<sup>nd</sup> by A. Trader was unanimously (8 approved) approved at 1:19 pm on 2/18/2015.

Respectfully Submitted,

Don Bell

# **Appendix**

**OSCT Surveillance Panel Meeting**

**2/18/2015**

**OIL SEAL COMPATIBILITY SURVEILLANCE PANEL**

**Date:** Feb 18, 2015

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	Allison Athey	Volvo Powertrain N.A. 13302 Pennsylvania Ave. Hagerstown, MD 21742-2675	Phone: 301-790-5400 x3109 FAX: 301-790-5815 e-Mail: Allison.athey@volvo.com
<i>Rob</i>	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
<i>Don</i>	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	Zack Bishop	TEI	email: zbishop@tei-net.com
	NV	Tom Boschert	Afton Chemical Corp. 500 Spring St. Richmond, VA 23219	Phone: 804-788-5202 FAX: 804-788-6243 e-Mail: Tom.boschert@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
<i>JWB</i>	NV	Jay Chalkley	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-5082 FAX: 804-788- e-Mail: Jarrod.chalkley@aftonchemical.com

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: 2/18/2015

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	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	Angelina Chan	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347- FAX: 440-347- e-Mail: Angelina.Chan@lubrizol.com
	NV	Jeff Clark	Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1032 FAX: 412-365-1047 e-Mail: jac@astrtmc.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
<i>JD</i>	V	John Dharte	American Axle 1 Dauch Drive Detroit, MI 48211	Phone: 313-758-4687 FAX: 313-758-4237 e-Mail: dhartej@aaam.com
	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.dwornick@us.army.mil
<i>SK</i>	V	Rebecca Grinfield <i>(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
<i>JLH</i>	V	Jerry Gropp	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-1223 FAX: 440-347-5337 e-Mail: jlg@lubrizol.com
<i>LH</i>	NV	Larry Hamilton	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-2326 FAX: e-Mail: Larry.hamilton@lubrizol.com

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Julie Hudia	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: FAX: e-Mail: Julie.hudia@lubrizol.com
<i>P.K.</i>	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>Bill</i>	NV	Bill Kearney	Afton Chemical Corp Southfield, MI	Phone: 248-350-0640 FAX: e-Mail: Bill.kearney@aftonchemical.com
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	NV	Cory Koglin	Afton Chemical Corp Southfield, MI	Phone: 248-350-0640 FAX: e-Mail: Cory.koglin@aftonchemical.com
<i>Clayton Knight</i>	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
	V	Bruce McGlone	Meritor 2135 West Maple Troy, MI 48084	Phone: 248-435-9929 FAX: 248-435-6602 e-Mail: Bruce.McGlone@meritor.com
<i>Donna Moshier</i>	NV	Donna Moshier	Eaton Corporation 13100 E. Michigan Avenue Galesburg, MI 49053	Phone: 269-342-3039 FAX: 269-746-6039 e-Mail: donnammoshier@eaton.com
	NV	Ronny Mumaw	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-8017 FAX: e-Mail: Ronny.mumaw@lubrizol.com

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	Alternate V	Troy Muransky	Meritor 2135 West Maple Rd. Troy, MI 48084	Phone: 248-435-1409 FAX: 248-435-6602 e-Mail: Troy.muransky@meritor.com
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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
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