

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

May 13, 2015

Don Bell

Participants: Please see attached membership list in Appendix.







The OSCT Surveillance Panel meeting was called to order at 3:14 pm on 5/13/2015.

The Panel reviewed the 12 voting OSCT member list. A. Athey of Volvo has taken a new position within Volvo and her replacement has not been named. Since A. Athey will no longer be attending the OSCT Surveillance Panel meetings, a motion was made by D. Bell and 2<sup>nd</sup> by T. Muransky to remove A. Athey as a voting member. The motion passed unanimously (7 approved), so A. Athey was removed as an OSCT voting member, which still leaves a sufficient number of 12 voting members.

A motion made by D. Bell and 2<sup>nd</sup> by B. Grinfield to approve the OSCT Surveillance Panel meeting minutes on the TMC website from 2/18/2015 was unanimously approved with 7 votes.

There are multiple baths available at Lubrizol and SWRI for conducting ASTM D5662 testing with no bath related issues or severity concerns. Intertek has one bath for conducting polyacrylate and fluoroelastomer seals, but not nitrile.

The following seal inventory at Test Engineering Institute (TEI) as of 5/13/2015 was reviewed and found that seal inventory has been adequate to keep up with demand.

- |   |   |
|---|---|
|  PA351 | TEI has 257 approved slabs  |
|  PA352 | TEI has 117 approved slabs  |
|  FL395 | TEI has 156 slabs – awaiting TMC to issue graphs with data to review for approval                                       |
|  FL396 | TEI has 175 slabs – awaiting qualification data to be reported to TMC as shown below                                    |
|   | <ul style="list-style-type: none"><li>• Lab b: OK</li><li>• Lab c: running</li><li>• Lab g: no results</li></ul>        |
|  NI345 | TEI has 293 approved slabs  |
|  NI346 | TEI has 280 slabs – awaiting qualification data to be reported to TMC as shown below                                    |
|   | <ul style="list-style-type: none"><li>• Lab b: OK</li><li>• Lab c: running 4/23</li><li>• Lab g: does not run</li></ul> |

The Panel reviewed the approximate 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	26	33 (~6 gals)

TMC 168 for nitrile referencing is nearing depletion and can no longer be blended, so a new replacement is needed. Afton identified a potential replacement oil with results similar to TMC 168 as shown below. Each SWRI ASTM D5662 data point uses a different lot of the API GL-5 additive and base stock lots conducted over several weeks. The Panel concluded that the Afton proposed replacement oil provides for data consistent with TMC 168. Afton will blend a fresh drum of the replacement oil and ship it to TMC for assigning a unique TMC reference oil number code and shipping it to the SWRI and Lz for testing to confirm acceptance. A motion made by J. Gropp and 2<sup>nd</sup> by D. Bell requires that when the test labs run this new TMC reference oil in parallel with current TMC 168 release oil after ~6 runs are conducted at both labs. The motion passed unanimously with 7 votes. When each lab completes their required number of tests, the data will be reviewed at an upcoming OSCT Surveillance Panel to vote on the approval of this replacement reference oil. At that time, acceptance bands will be established.

	TMC 168	Potential Replacement Oil
% elongation change	-73.6	-70.4/-65.7/-68.1
% vol change	1.1	2.0/2.4/2.6
Shore hardness	3	2.5/3.0/1.0

A motion to adjourn made by D. Bell and 2<sup>nd</sup> by J. Gropp was unanimously (7 approved) approved at 3:45 pm on 5/13/2015.

Respectfully Submitted,

Don Bell



# **Appendix**

**OSCT Surveillance Panel Meeting**

**5/13/2015**

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL



Date: May 13, 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.AGUJIRRE@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>RP</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>DB</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: <a href="mailto:zbishop@tei-net.com">zbishop@tei-net.com</a>
	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>JWC</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

*Anna Akad*

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

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

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@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 allen.s.comfort.civ@mail.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
	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 bridget.l.dwornick.civ@mail.mil
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	NV	Brian Foecking	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-2130 FAX: 440-347- e-Mail: bjf@lubrizol.com
	V	Rebecca Grinfield	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




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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
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	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: 210-690-1958 FAX: 210-877-0228 e-Mail: <a href="mailto:cknight@tei-net.com">cknight@tei-net.com</a>

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	V	Bruce McGlone	Meritor 2135 West Maple Troy, MI 48084	Phone: 248-435-9929 FAX: 248-435-6602 e-Mail: Bruce.McGlone@meritor.com
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