

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

August 10, 2016

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 8/10/2016 via Webex at PRI in Warrendale, PA.

The OSCT voting member list of 12 was reviewed with the Panel and deemed acceptable. The attached attendance list was initialed by all attendees, and those only on the phone are highlighted on the attendance sheet.

A motion made by J. Dharte and 2nd by W. Venhoff to approve the OSCT Surveillance Panel meeting minutes from 5/11/2016 posted on the TMC website was unanimously approved with 10 votes.

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:

- PA355: TEI has no inventory
- PA356: Runs in TMC 160-1 show 3 passes and 2 fails
Runs in TMC 169 show 3 passes and no fails
The results above are based upon ignoring two runs that were invalidated due to failing reference results.
TMC to email the Panel the PA356 data and a request to vote on approval of the batch since passing results exceed failing
- PA357: TEI rejected due to 30 of 300 slabs failed thickness specification
- PA358: TEI ordered on 7/20/2016 and takes 60-90 days to receive

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

- FL399: TEI has 162 unapproved slabs
Lab B had some failing data results due to reference failures, so TMC will re-evaluate their runs and make requests for repeat qualification testing as they deem necessary
Lab C has passing results in both 160-1 and 169 reference oils
Lab G has passing 169 data and 1 fail and 2 passes in 160-1 reference oil, so no more repeats requested

- FL400: TEI has no slabs since labs quickly ordered what they needed once batch was approved on 7/21/2016
- FL 401: TEI has 167 unapproved slabs
Lab B has passing data but used FL399 as reference and it is not yet approved, so they can use FL400 as reference to repeat qualification runs
Lab C needs to submit data to TMC
Lab G has passing data in both reference oils
- FL402 & 403 TEI ordered on 7/19/2016
- FL404 & 405 TEI in process of ordering

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

- NI346: TEI has 38 approved slabs, so they will contact labs to see if they can order this lot
- NI347: TEI has 58 approved slabs, so they will contact labs to see if they can also order this lot
- NI348: TEI has 278 approved slabs

The 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. TEI was requested to alert chairman, D. Bell, when new slabs were sent to labs for qualification. All three labs were asked to alert D. Bell when they submit qualification results to TMC, so that D. Bell can send S. Parke of TMC a reminder to compile/graph all of the data and send it out via email to the Panel for approval. The initial qualification testing only requires 6 specimens, but if a repeat is necessary, then 12 specimens are required. For all qualification testing, the new batch of elastomer must be run along-side a valid reference or previously approved elastomer batch in the same bath. If the reference run fails, then the qualification run with the new elastomer batch is considered invalid.

Reference oil TMC 170 was approved as a new NI reference oil as a replacement for the depleted and discontinued TMC 168. TMC has ~47 gallons of TMC 170. TMC established the following TMC 170 targets and limits as per memorandum 16-026 on 7/28/2016, and the Panel agreed with the limits.

	Mean	Std.
PELA	-72.75	3.416
PVCA	2.275	0.449
SAHA	1.500	0.674

TMC noted that TMC 160-1 PA and FL reference oil inventory is running low since they have only 18 gallons (94 samples) and 52 cans at labs. One drum of TMC 160-1 is being re-blended with an alternate base oil since the current one is no longer available. It will likely be labelled TMC17x (x to be defined). TMC will alert all three labs when they ship TMC 17x to them for testing. A motion made by S. Parke and 2nd by B. Grinfield requires all labs to conduct 1 run each per elastomer with TMC 17x was unanimously approved with 10 votes. TMC will graph the data and distribute it to the Panel for approval of TMC 17x.

As per a motion at the 5/11/2016 Panel meeting, all three labs must conduct D5662 testing on PA and FL with TMC 155-1 category reference oil every September to ensure D5662 stays well in-control. TMC's S. Parke will send all labs an email alert in September to complete the D5662 testing with TMC 155-1, then graph the data and distribute via email for approval.

A motion made by D. Bell to adjourn the meeting at 1:57 pm on 8/10/2016 was unanimously approved with 10 votes.

Respectfully Submitted,






A handwritten signature in black ink that reads "Don Bell". The signature is written in a cursive style with a large, looped initial "D".

Don Bell

Appendix

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: August 10, 2016

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

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<i>VD</i> <i>John</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
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<i>AD</i> <i>AS</i> <i>ADON</i> <i>on phone</i>	V	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: 914-785-2083 e-Mail: Arjun.goyal@basf.com
<i>RL</i> <i>on phone</i>	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
	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>WAK</i>	NV	Bill Kearney	Afton Chemical Corp Southfield, MI	Phone: 248-350-0640 FAX: e-Mail: Bill.kearney@aftonchemical.com
<i>Mek</i>	NV	Marc Keisler	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-5617 FAX: e-Mail: Marc.keisler@aftonchemical.com

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<i>CK</i> <i>phone</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
	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
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	V	Donna Mosher	Eaton Corporation 13100 E. Michigan Avenue Galesburg, MI 49053	Phone: 269-342-3039 FAX: 269-746-6039 e-Mail: donnamosher@eaton.com
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