

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

August 8, 2018

Don Bell

Participants: Please see attendance list in the Appendix.

An OSCT Surveillance Panel meeting was called to order by D. Bell at 1:00 pm on 8/8/2018 at PRI in Warrendale, PA with some participants on a Webex. The agenda was reviewed.

The OSCT voting member list of eleven was reviewed, and agreed that the voting members represented the industry well.

A motion made by J. Dharte and 2<sup>nd</sup> by W. Venhoff was unanimously approved with 9 votes and no abstentions to approve OSCT Surveillance Panel meeting minutes posted to the TMC website from 5/9/2018.

The TEI elastomer inventory as of 8/6/2018 was reviewed. At the last OSCT Panel meeting, PA360 and 361 were rejected. The supplier evaluated their process and procedures for these two batches but did not find a root cause for the slabs not meeting our limits. The Panel has accepted the supplier's request to ship them 8 slabs each of these two PA lots, along with the 2 TMC reference oils (169 and 160-1/171) for further evaluation of each lot. However, the supplier must share the data with the Panel. D. Bell will work with TEI and TMC to ship out the rejected slabs and the reference oils to the supplier.

PA362 was approved on 4/20/2018, so the industry has 267 PA slabs for testing gear oils per D5662. PA363 (267 slabs) was sent out to all three labs for qualification testing, and PA364 (300 slabs) was ordered on 6/7/2018.

FL404 and FL405 are both approved but TEI only has 13 slabs of each. FL406 (184 slabs) was sent to all three labs for qualification testing, and FL407 (300 slabs) was ordered on 6/17.

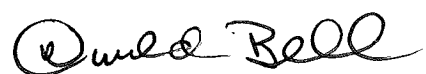
TEI has 65 approved slabs of NI348. NI349 (278 slabs) and NI350 (289 slabs) were sent to all three labs for qualification testing on 5/7 and 5/25, respectively. TMC 168 is depleted at all labs and TMC, so TMC 170 is approved as a replacement oil for referencing NI baths.

Each lab has been asked to email [don.bell@afonchemical.com](mailto:don.bell@afonchemical.com) upon submission of qualification data to TMC to allow tracking.

The replacement reference oil for TMC 160-1, TMC 171, has been tested with one run each for PA and FL, and results are being graphed by TMC. Once TMC sends the results to D. Bell, a Surveillance Panel webex will be held to review the data with the goal of approving TMC 171 for D5662 candidate testing.

A motion made by B. Grinfield and 2<sup>nd</sup> by M. Lopez was unanimously approved with 9 votes to adjourn the OSCT Panel meeting at 1:18 pm on 8/8/2018.

Respectfully Submitted,

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

Donald Bell

**OIL SEAL COMPATIBILITY SURVEILLANCE PANEL**

Date: August 8, 2018

| Initials   | V = Voting<br>NV = Non-voting | Name                           | Company & Address   | Phone / FAX / e-Mail  |
|------------|-------------------------------|--------------------------------|---|---|
|            | NV                            | Nancy Aguirre                  | Intertek Automotive Research<br>5404 Bandera Road<br>San Antonio, TX 78238          | Phone: 210-647-9428<br>e-Mail: Nancy.AGUIRRE@Intertek.com                       |
| <i>RB</i>  | V                             | Rob Banas                      | ExxonMobil Lubricants and Specialties<br>114 Arcadia Park Drive<br>Canton, GA 30114 | Phone: 678-493-3930<br>e-Mail: Rob.a.banas@exxonmobil.com                       |
| <i>DSB</i> | V                             | Dylan Beck                     | TMC<br>6555 Penn Ave.<br>Pittsburgh, PA 15206                                       | Phone: 412-365-1037<br>e-Mail: djb@astmtmc.cmu.edu                              |
| <i>DB</i>  | V                             | Don Bell<br><i>Chairperson</i> | Afton Chemical Corp.<br>500 Spring Street<br>Richmond, VA 23219                     | Phone: 804-788-6332<br>FAX: 804-788-5184<br>e-Mail: don.bell@aftonchemical.com  |
| <i>JAC</i> | NV                            | Jeff Clark                     | TMC<br>6555 Penn Ave.<br>Pittsburgh, PA 15206                                       | Phone: 412-365-1032<br>e-Mail: jac@astmtmc.cmu.edu                              |
|            | V                             | Allen Comfort                  | US Army TARDEC<br>RDTA-DP/MS110<br>6501 E. 11 Mile Road<br>Warren, MI 48307-5000    | Phone: 586-282-4225<br>FAX: 586-282-4244<br>e-Mail: Allen.s.comfort@us.army.mil |
| <i>JNH</i> | V                             | John Dharte                    | American Axle<br>1 Dauch Drive<br>Detroit, MI 48211                                 | Phone: 313-758-4687<br>FAX: 313-758-4237<br>e-Mail: dhartej@aam.com             |
|            | V                             | Vince Donndelinger             | The Lubrizol Corporation<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092             | Phone: 440-347-6589<br>e-Mail: Vince.donndelinger@lubrizol.com                  |
| <i>ED</i>  | NV                            | Eric Donovan                   | Afton Chemical Corp.<br>500 Spring Street<br>Richmond, VA 23219                     | Phone: 804-788-5097<br>e-Mail: Eric.donovan@aftonchemical.com                   |
| <i>KD</i>  | NV                            | Kristijan Drija                | The Lubrizol Corporation<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092             | Phone: KRDR@lubrizol.com<br>e-Mail:   |

8/8/2008

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|----------|-------------------------------|--------------------|--|---|
|          | NV                            | Bridget Dwornick   | US Army RDECOM/TARDEC<br>RDTA-DP/210 MS 110<br>6501 E 11 Mile Road<br>Warren, MI 48397-5000  | Phone: 586-282-4221<br>FAX: 586-282-4244<br>e-Mail: Bridget.l.dwornick.civ@mail.mil                                 |
|          | NV                            | Brian Foecking     | The Lubrizol Corporation<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092  | Phone: 440-347-2130<br>e-Mail: bjf@lubrizol.com   |
| DL       | NV                            | Arjun Goyal        | BASF<br>500 White Plains Road<br>Tarrytown, NJ 10951   | Phone: 914-785-2083<br>e-Mail: Arjun.goyal@basf.com   |
| LO       | V                             | Rebecca Grinfield  | Southwest Research Institute<br>P.O. Drawer 28510<br>San Antonio, TX 78228-0510  | Phone: 210-522-3652<br>FAX: 210-522-5907<br>e-Mail: bgrinfield@swri.org   |
|          | NV                            | Derek Grosch       | TEI  | e-Mail: dgrosch@tei-net.com   |
|          | NV                            | Kimberly Gutierrez | Intertek Automotive Research<br>5404 Bandera Road<br>San Antonio, TX 78238   | e-Mail: kimberly.hernandez@intertek.com   |
| TA       | NV                            | Tisha Joy          | BASF<br>500 White Plains Road<br>Tarrytown, NJ 10951   | Phone: 914-785-2206<br>e-Mail: Atisha.joy@basf.com  |
| PK       | NV                            | Percy Kanga        | ExxonMobil Research and Engineering<br><del>600 Billingsport Rd. 1545 Rte. 22 East</del><br>Pauisboro, NJ <del>08066</del> 08801<br><i>Clinton</i> | Phone: <del>856-224-2094</del> 908-335-3780<br>FAX: <del>856-224-3613</del><br>e-Mail: Percy.r.kanga@exxonmobil.com |
| MAIL     | NV                            | Bill Kearney       | Afton Chemical Corp<br>Southfield, MI  | Phone: 248-350-0640<br>e-Mail: Bill.kearney@aftonchemical.com   |
| CK       | V                             | Clayton Knight     | Test Engineering Institute<br>12718 Cimarron Path<br>San Antonio, TX 78249   | Phone: 210-690-1958<br>FAX: 210-877-0228<br>e-Mail: cknight@tei-net.com   |
|          | NV                            | Kevin Kvasnicka    | Afton Chemical Corp.<br>500 Spring Street<br>Richmond, VA 23219  | Phone: 804-788-5320<br>FAX: 804-788-5184<br>e-Mail: Kevin.Kvasnicka@aftonchemical.com                               |

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| Initials     | V = Voting<br>NV = Non-voting | Name            | Company & Address  | Phone / FAX / e-Mail                                       |
|--------------|-------------------------------|-----------------|--|--|
|              | NV                            | Dan Lancot      | Test Engineering Institute<br>12718 Cimarron Path<br>San Antonio, TX 78249       | Phone:<br>e-Mail: dlancot@tei-net.com                      |
| MLC<br>Phone | V                             | Mike Lopez      | Intertek Automotive Research<br>5404 Bandera Road<br>San Antonio, TX 78238       | e-Mail: mike.lopez@intertek.com                            |
|              | NV                            | Vera Marsic     | Lubrizol<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092                          | Phone:<br>e-Mail: Vera.marsic@lubrizol.com                 |
| JW<br>Phone  | NV                            | Jeff Milner     | Tianhe Chemical  | Phone: 804-252-6928<br>e-Mail: jimilner@Tianhe.us.com      |
| DM           | V                             | Donna Mosher    | BASF<br>100 Park Ave.<br>Florham Park, NJ  | Phone: 269-217-1715<br>e-Mail: Donna.mosher@basf.com       |
|              | NV                            | Robert Opperman | Meritor<br>2135 West Maple Rd.<br>Troy, MI 48084                                 | Phone: 248-435-1544<br>e-Mail: Robert.Opperman@meritor.com |
| SR           | V                             | Jule Rucker     | Meritor<br>2135 West Maple Rd.<br>Troy, MI 48084                                 | Phone: 248-435-1430<br>e-Mail: Jule.Rucker@meritor.com     |
|              | NV                            | Eric Sattler    | US Army TARDEC<br>RDTA-DP/MS110<br>6501 E. 11 Mile Road<br>Warren, MI 48307-5000 | Phone: 586-282-2272<br>e-Mail: Eric.r.sattler.civ@mail.mil |
| AS           | NV                            | Robert Slocum   | Lubrizol<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092                          | Phone:<br>e-Mail: robert.slocum@lubrizol.com               |
| AS           | NV                            | Dale Smith      | Intertek Automotive Research<br>5404 Bandera Road<br>San Antonio, TX 78238       | Phone: 412-855-6854<br>e-Mail: Dale.smith@intertek.com     |
| AS           | NV                            | Angela Trader   | Intertek Automotive Research<br>5404 Bandera Road<br>San Antonio, TX 78238       | Phone: 210-706-1533<br>e-Mail: Angela.trader@intertek.com  |

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**Date:**

8/8/18

| Initials | V = Voting<br>NV = Non-voting | Name           | Company & Address   | Phone / FAX / e-Mail                                   |
|----------|-------------------------------|----------------|---|--|
| WV       | NV                            | Wes Venhoff    | Lubrizol<br>29400 Lakeland Blvd.<br>Wickliffe, OH 44092                         | Phone:<br>e-Mail: Wes.venhoff@lubrizol.com             |
| RV       | NV                            | Rebecca Warden | Southwest Research Institute<br>P.O. Drawer 28510<br>San Antonio, TX 78228-0510 | Phone: 210-522-6266<br>e-Mail: Rebecca.Warden@SWRI.org |
|          | NV                            | Khaled Zreik   | General Motors  | Phone: 248-977-9214<br>e-Mail: Khaled.zreik@gm.com     |

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SST NV Steven Thrush US ARMY