

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

February 19, 2020

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel Skype meeting at PRI in Warrendale, PA was called to order by D. Bell at 2:33 pm on 2/19/2020, and the agenda was reviewed.

The 12 OSCT Surveillance Panel voting member list was reviewed and deemed well representative of industry members. Since D. Rabinowitz left Meritor, J. LaBond from Meritor was approved as a new voting member.

A motion made by W. Venhoff and 2<sup>nd</sup> by J. LaBond was unanimously approved with 9 votes to approve the OSCT meeting minutes posted to the TMC website for 11/13/2019.

The polyacrylate (PA) qualification status and Test Engineering Institute's (TEI) elastomer inventory were reviewed.

- PA365 TEI has 278 approved slabs.
- PA366 TEI has 281 non-approved slabs.  
Since both labs submitted passing qualification results to TMC, a motion made by D. Bell and 2<sup>nd</sup> by W. Venhoff was unanimously approved with 9 votes to effectively immediately approve PA366 for ASTM D5662 testing. TEI was instructed to release PA366 for sale. Labs to run TMC 171 side-by-side as non-jeopardy oil to continue to collect additional data.

PA366			
		Lab C	Lab G
	Approval Run	149648-OSCT	148763-OSCT
169 Oil	Accompanying Reference	149649-OSCT	148762-OSCT

- **PA367** TEI has 259 non-approved slabs. Since both labs submitted passing qualification results to TMC, a motion made by D. Bell and 2<sup>nd</sup> by W. Venhoff was unanimously approved with 9 votes to effectively immediately approve PA367 for ASTM D5662 testing. TEI was instructed to also release PA367 for sale. Labs to run TMC171 as non-jeopardy oil.

PA367			
		Lab C	Lab G
169 Oil	Approval Run	149643-OSCT	148761-OSCT
	Accompanying Reference	149642-OSCT	145331-OSCT

- **PA368** TEI just received 300 slabs so will send to both labs for qualification testing.

The fluoroelastomer (FL) qualification status and TEI's elastomer inventory were reviewed.

- **FL410** TEI has 89 approved slabs.
- **FL411** TEI has 178 unapproved slabs. A motion made by D. Bell and 2<sup>nd</sup> by M. Cabaj was unanimously approved with 9 votes to effectively immediately approve FL411 for ASTM D5662 testing. TEI also instructed to release FL411 for sale.

FL411			
		Lab C	Lab G
169 Oil	Approval Run	150108-OSCT	145329-OSCT
	Accompanying Reference	149647-OSCT	145328-OSCT

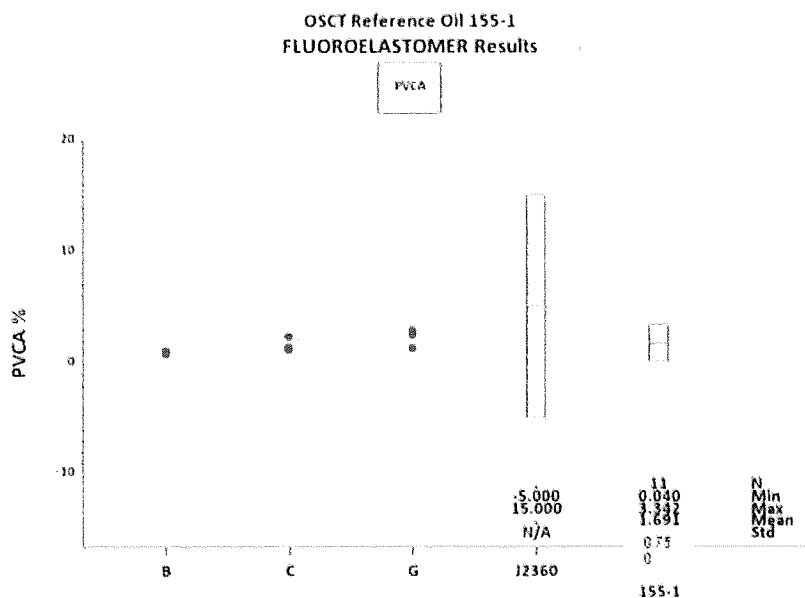
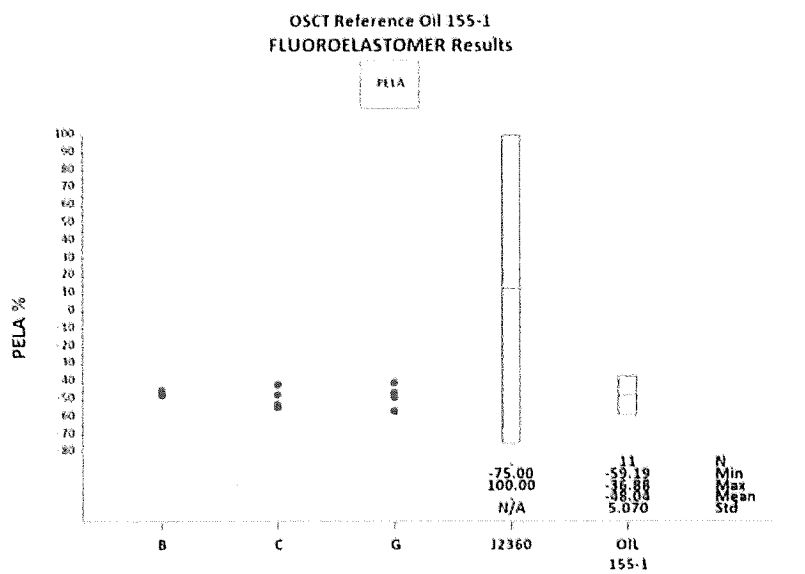
- **FL412** Arrived 2/3, so TEI will ship out to both labs for qualification testing.

The nitrile (NI) qualification status and TEI's elastomer inventory were reviewed.

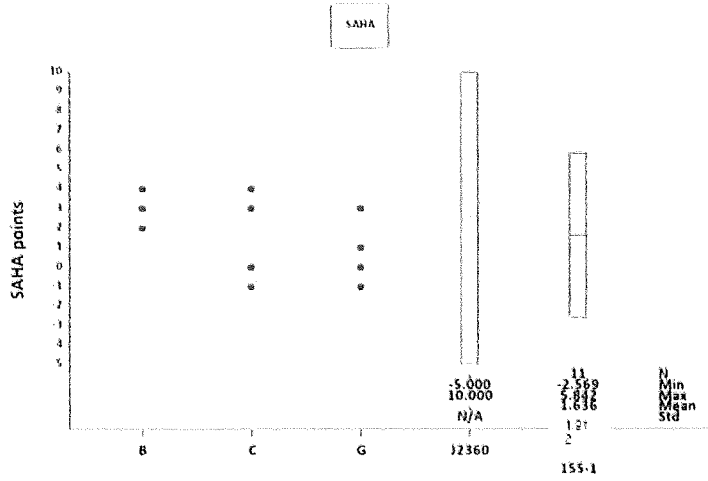
- NI350           TEI has 139 approved slabs.
- NI351           TEI has 278 approved slabs.

TMC 155-1 Industry Reference Annual Testing:

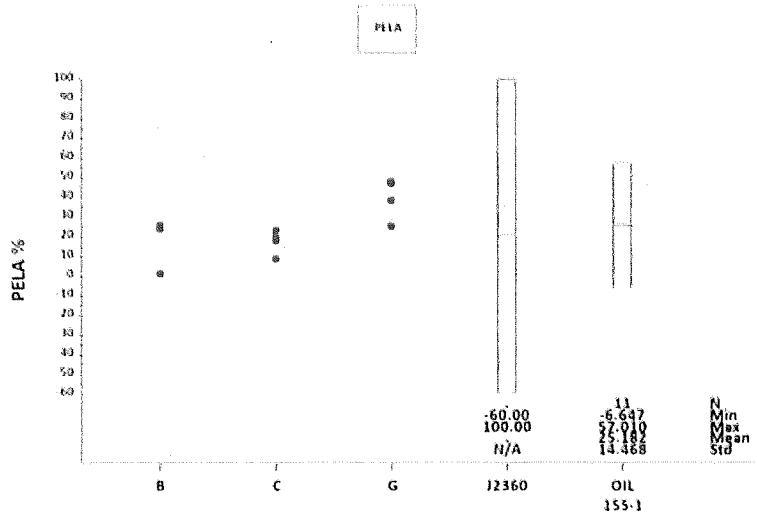
TMC reviewed the FL and PA data shown below from both test labs for their annual industry reference oil, TMC 155-1, to ensure the ASTM D5662 test is in control. The conclusion is that the labs are reporting similar results within J2360 limits with TMC 155-1.



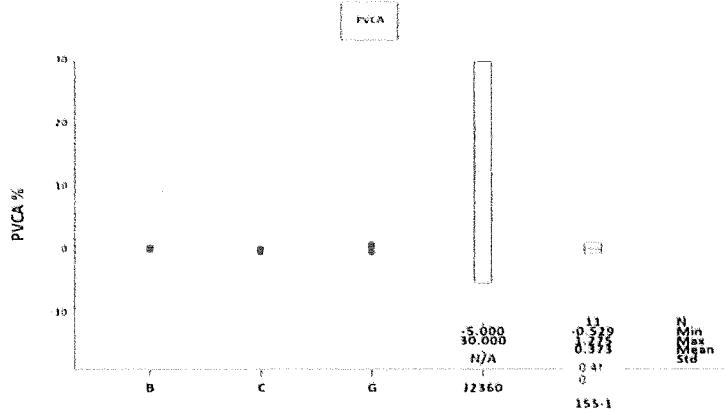
OSCT Reference Oil 155-1  
FLUOROELASTOMER Results

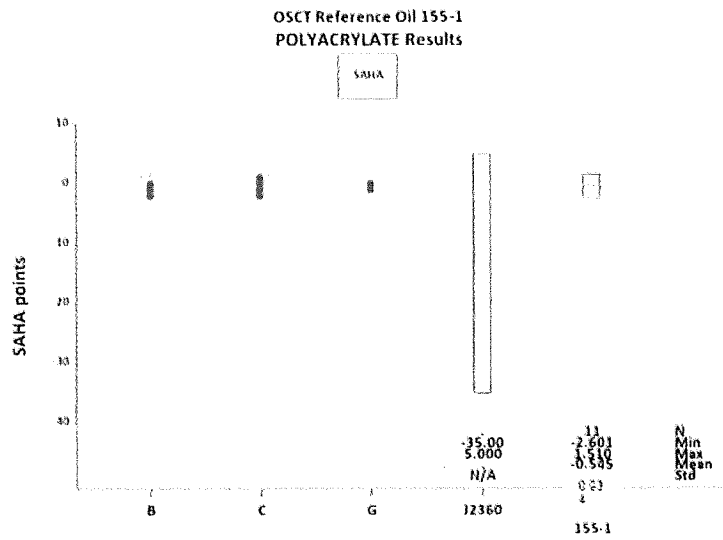


OSCT Reference Oil 155-1  
POLYACRYLATE Results



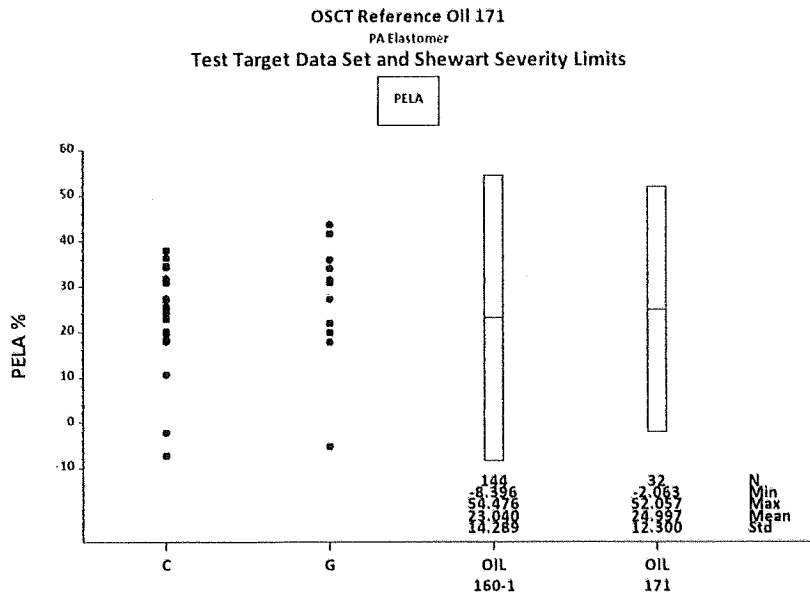
OSCT Reference Oil 155-1  
POLYACRYLATE Results



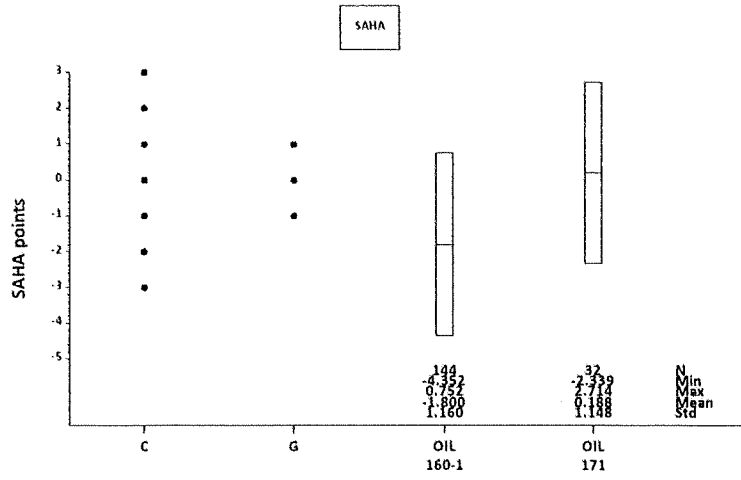


TMC also reviewed data from both labs on the relatively new reference oil, TMC 171, that replaced the discontinued TMC 160-1.

Results excluding 145317 & 145324 data points...

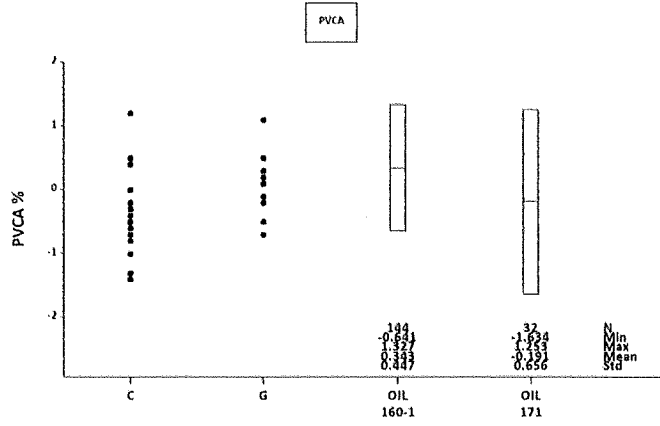


OSCT Reference Oil 171  
PA Elastomer  
Test Target Data Set and Shewart Severity Limits

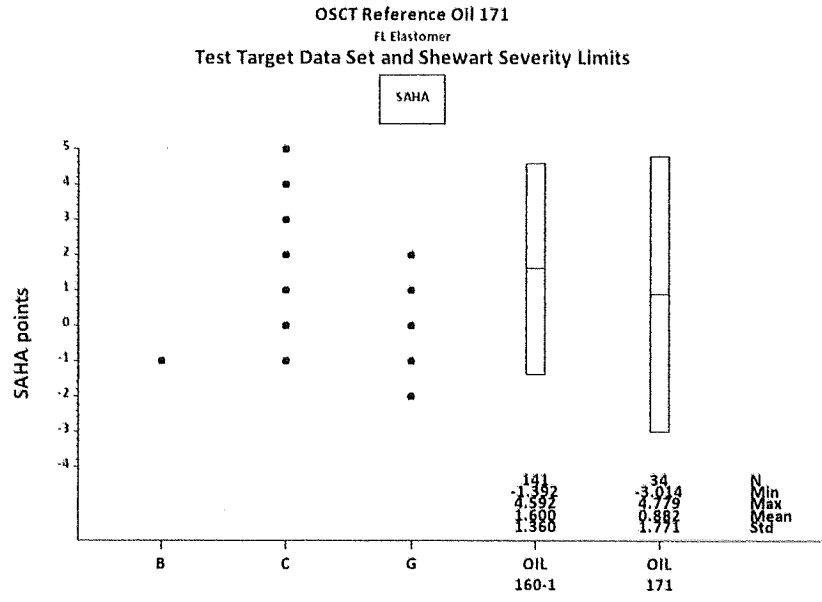
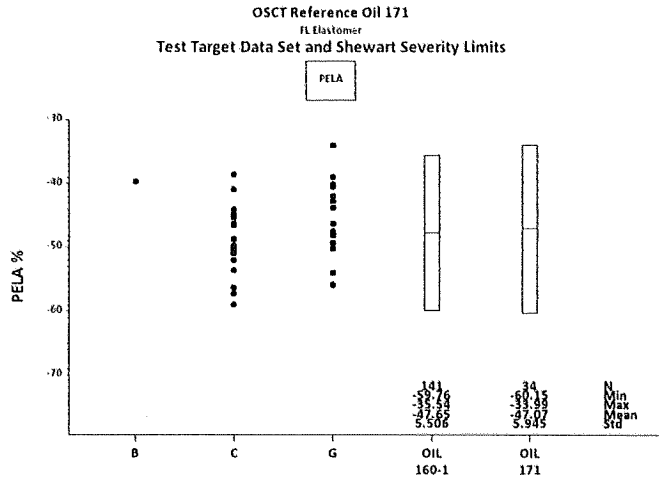


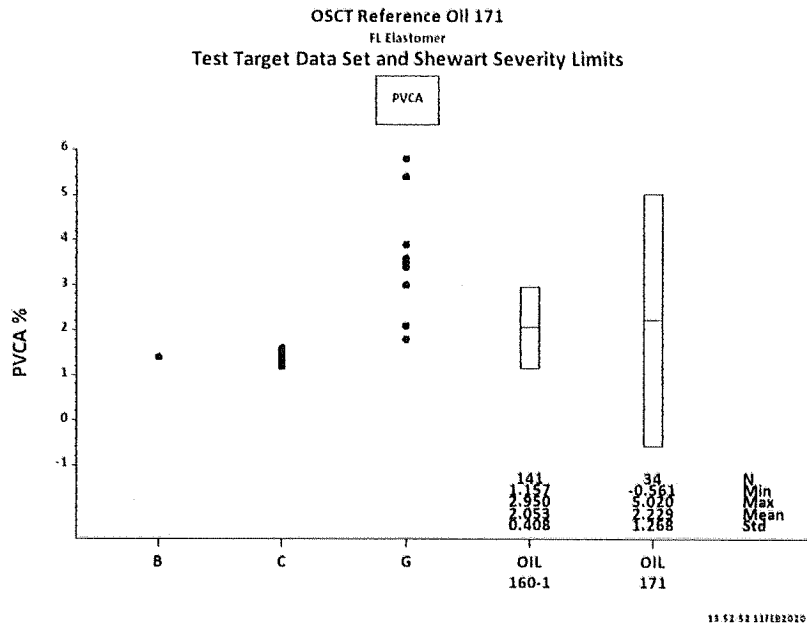
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OSCT Reference Oil 171  
PA Elastomer  
Test Target Data Set and Shewart Severity Limits



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Lab G and C need to investigate their individual techniques for measuring FL PVCA and SAHA since both labs are getting consistently different results.

A question was raised regarding the potential for reference oil stability being an issue. The TMC noted that they conduct a QC program in which they test for water, full ICP, FTIR, and viscosity over time and have not observed any significant differences to suggest stability issues.

TMC has been asked to compile TMC 171 and TMC 169 control charts with the data of each all on the same plot for relative comparisons.

A motion made by D. Bell and 2<sup>nd</sup> by A. Goyal was unanimously approved with 9 votes to adjourn the OSCT Panel meeting at 3:42 pm on 2/19/2020.

Respectfully Submitted,

Donald Bell/OSCT Chairman



# Appendix

**OIL SEAL COMPATIBILITY SURVEILLANCE PANEL**

**Date:** Feb. 19, 2020

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 e-Mail: Nancy.AGUIRRE@Intertek.com
<i>RB</i>	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 e-Mail: Rob.a.banas@exxonmobil.com
<i>DB</i>	V	Dylan Beck	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: 412-365-1037 e-Mail: djb@astmtmc.cmu.edu
<i>DB</i>	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-6332 e-Mail: don.bell@aftonchemical.com
	NV	Jon Bolaney	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-7742 e-Mail: joby@lubrizol.com
<i>MC</i>	V	Mike Cabaj	McLaren/Linamar	Phone: 313-820-0119 e-Mail: Michael.cabaj@linamar.com
<i>JSC</i>	NV	Jeff Clark	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: 412-365-1032 e-Mail: jac@astmtmc.cmu.edu
<i>AC</i>	V	Allen Comfort	US Army CCDC-GVSC RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: 586-282-4225 e-Mail: Allen.s.comfort.civ@mail.mil
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<i>KB</i>	NV	Kristijan Drija	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail: KRDR@lubrizol.com
	NV	Brian Foecking	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-349-2130 e-Mail: bjf@lubrizol.com




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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
<i>Arj</i>	NV	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: 914-785-2083 e-Mail: Arjun.goyal@basf.com
<i>Disputed items removed by RB 2/19/20</i>	V	Rebecca Grinfield	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-3652 e-Mail: <a href="mailto:rebecca.grinfield@swri.org">rebecca.grinfield@swri.org</a>
	NV	Derek Grosch	TEI	e-Mail: dgrosch@tei-net.com
<i>K-G phone</i>	NV	Kimberly Gutierrez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail: kimberly.hernandez@intertek.com
<i>(NV)</i>	NV	Dan Horvath	Afton Chemical 2000 Town Center Southfield, MI 48075	e-Mail: dan.horvath@aftonchemical.com
<i>PKK</i>	NV	Percy Kanga	ExxonMobil Research and Engineering 1545 Rte. 22 East Clinton, NJ 08801	Phone: 908-335-3780 e-Mail: Percy.r.kanga@exxonmobil.com
<i>CK phone</i>	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: 210-690-1958 e-Mail: cknight@tei-net.com
	NV	Tyler Kuchta	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH	Phone: 440-347-5868 e-Mail: Tyler.kuchta@lubrizol.com
	NV	Dan Lancot	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	e-Mail: dlancot@tei-net.com
<i>JL</i>	NV	Jessica LaBond	Meritor 2135 W. Maple Rd. Troy, MI 48084	Phone: 248-872-3055 e-Mail: jessica.labond@meritor.com
<i>AL</i>	NV	Anthony Lange	Intertek 5404 Bandera Rd. San Antonio, TX 78238	Phone: 210-634-1103 e-Mail: anthony.lange@intertek.com
<i>MV phone</i>	V	Mike Lopez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail: mike.lopez@intertek.com

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	V	Donna Mosher	BASF 100 Park Ave. Florham Park, NJ	Phone: 269-217-1715 e-Mail: Donna.mosher@basf.com
	V	Troy Muransky	AAM 1840 Holbrook Detroit, MI 48212	e-Mail: troy.muransky@aam.com
	NV	Matt Sangpeal	Afton Chemical Ashland Technical Center 11289 Central Drive Ashland, VA 23005	Phone: 804-788-5364 e-Mail: matt.sangpeal@aftonchemical.com
	NV	Robert Slocum	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail: robert.slocum@lubrizol.com
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	NV	Amy Zyski	Dana Inc. 3939 Technology Drive Maumee, OH 43537	Phone: 419-887-3432 e-Mail: Amy.zyski@dana.com

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