

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

November 11, 2020

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel Microsoft Teams virtual meeting was called to order by D. Bell at 1:05 pm on 11/10/2020, and the agenda was reviewed.

The 12 OSCT Surveillance Panel voting member list below was reviewed and deemed well representative of industry members, so no changes were proposed.

- D. Bell Afton (Chair)
- A. Comfort Army
- T. Muransky AAM
- R. Banas ExxonMobil
- B. Grinfield SWRI
- V. Donndelinger Lubrizol
- C. Knight TEI
- J. LaBond Meritor
- M. Cabaj Linamar
- D. Beck TMC
- M. Lopez Intertek
- D. Mosher BASF

A motion made by J. LaBond and 2<sup>nd</sup> by D. Mosher was unanimously approved with 8 votes to approve the OSCT meeting minutes posted to the TMC website for 8/13/2020.

Lab C has 3 baths and Lab G has 1 bath with both labs being able to conduct ASTM D5662 testing with no known stand/bath issues. The following validity report by TMC for 4/1/2020 to 9/30/2020 was reviewed and no major issues were raised.

		FL	NI	PA	Totals	
					Last Period	This Period
Accepted for calibration	AC	11	4	11	30	26
Rejected (low result)	OC	1	0	1	0	2
Rejected (high result)	OC	0	1	0	0	1
Rejected (high and low)	OC	0	1	0	0	1
Op. invalid	LC	0	0	0	2	0
Aborted	XC	1	0	0	0	1
Elastomer approval run	NI	9	0	12	31	21
Aborted information run	XI	1	0	0	0	1
Op. invalid approval run	LI	0	0	0	2	0
Total		23	6	24	65	53

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

- PA365           TEI has 78 approved slabs.
- PA366           TEI has 281 approved slabs.
- PA367           TEI has 259 approved slabs.
- PA368           TEI has ~280 approved slabs.

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

- FL410           TEI has 18 approved slabs.
- FL411           TEI has 78 approved slabs.
- FL412           TEI has 178 approved slabs

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

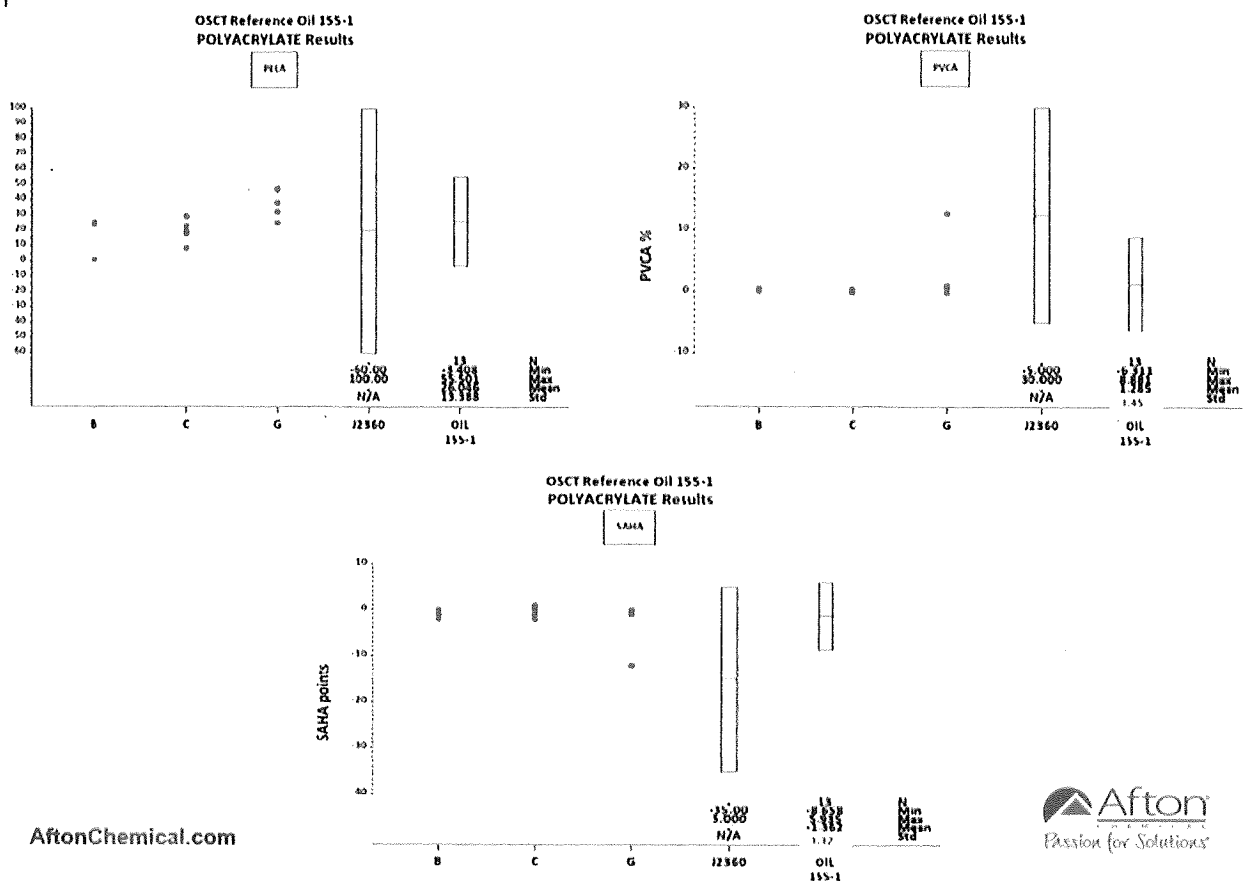
- NI350           TEI has 89 approved slabs.
- NI351           TEI has 278 approved slabs.

As per the annual requirement, both Labs C and G submitted PA and FL data in TMC 155-1 industry reference oil to TMC to confirm the test remains in control with results consistent with J2360 limits. TMC tabulated and graphed the PA and FL data from both labs.

PA Elastomer

testkey	ltmslab	val	ind	ltmsdate	CHART	PVCA	SAHA	PELA	EBC
131591-OSCT	G	NI	155-1	20200928	N	12.7	-12	32.2	PA364
148362-OSCT	C	NI	155-1	20200924	N	-0.1	0.3	29.3	PA364
120859-OSCT	C	NI	155-1	20190905	N	-0.2	0	17.8	PA363
131595-OSCT	G	NI	155-1	20190905	N	1	0	25.2	PA360
131158-OSCT	G	NI	155-1	20181207	N	1	-1	46.7	PA362
120857-OSCT	C	NI	155-1	20171221	N	0.3	-2	23.2	PA359
120865-OSCT	B	NI	155-1	20171214	N	0.2	-2	25.4	PA359
131157-OSCT	G	NI	155-1	20171214	N	0.7	0	38.2	PA359
120861-OSCT	B	NI	155-1	20161027	N	0.5	-1	23.8	PA355
120886-OSCT	G	NI	155-1	20161020	N	-0.2	0	47.7	PA355
120856-OSCT	C	NI	155-1	20161013	N	0.1	-1	19.4	PA355
116409-OSCT	B	NI	155-1	20160412	N	0.3	0	1	PA355
111179-OSCT	C	NI	155-1	20150927	N	0.4	1	8.6	PA352
<b>AVG.</b>						<b>1.28</b>	<b>-1.36</b>	<b>26.04</b>	<b>N Size</b>
<b>STD.</b>						<b>3.45</b>	<b>3.32</b>	<b>13.38</b>	

## TMC 155-1 PA Plots:

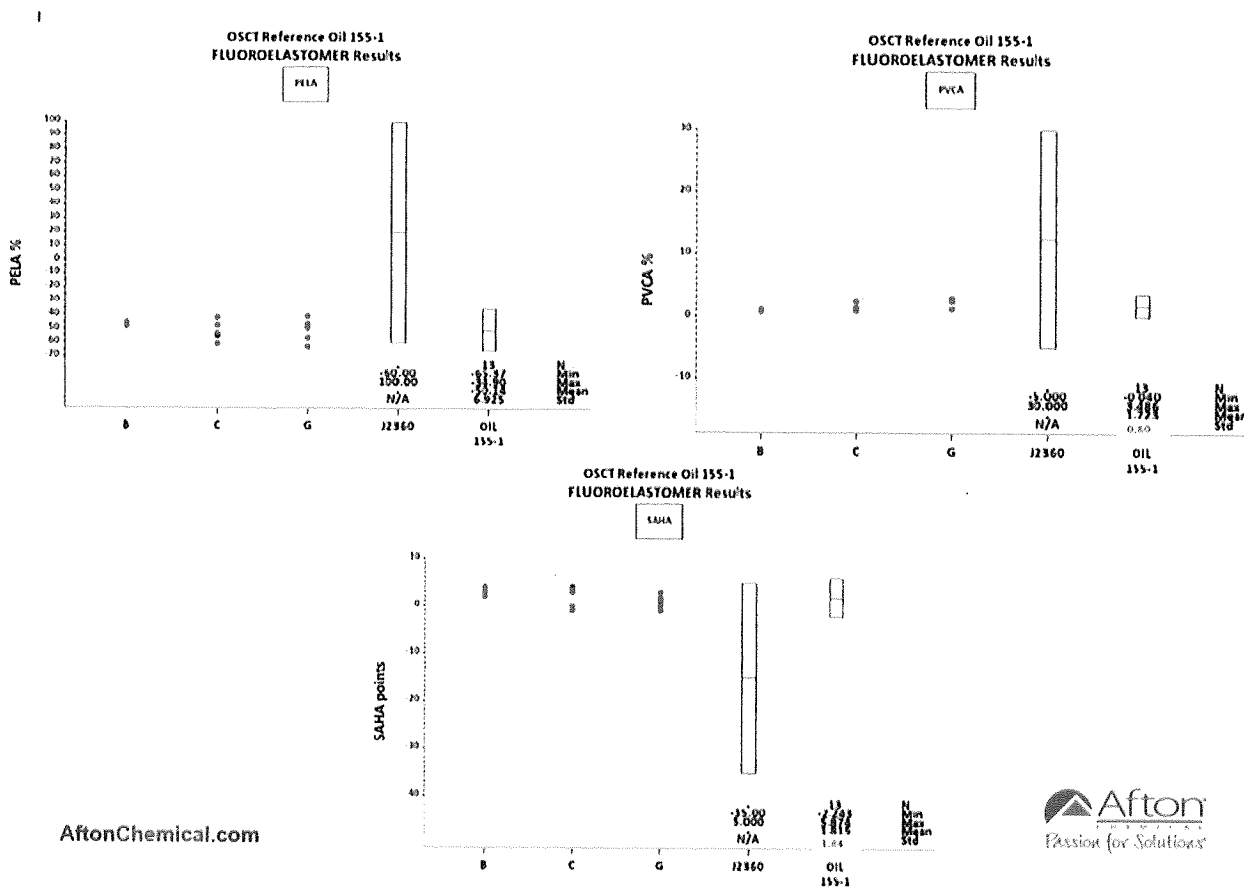


Lab G has one outlier that they agreed to review the results and confirm it is real. If deemed real, then TMC would like a re-run with PA 155-1 from Lab G.

## FL Elastomer

testkey	ltmslab	val	ind	ltmsdate	CHART	PVCA	SAHA	PELA	EBC
131160-OSCT	G	NI	155-1	20200928	N				
148363-OSCT	C	NI	155-1	20200925	N				
131596-OSCT	G	NI	155-1	20190913	N				
120860-OSCT	C	NI	155-1	20190903	N				
131159-OSCT	G	NI	155-1	20181207	N				
120858-OSCT	C	NI	155-1	20171221	N				
120891-OSCT	G	NI	155-1	20171219	N				
120863-OSCT	B	NI	155-1	20171116	N				
120890-OSCT	G	NI	155-1	20170309	N				
120862-OSCT	B	NI	155-1	20161115	N				
120855-OSCT	C	NI	155-1	20161010	N				
116408-OSCT	B	NI	155-1	20160411	N				
111180-OSCT	C	NI	155-1	20150925	N				
AVG.						1.72	1.82	-50.14	N Size
STD.						0.80	1.84	6.92	

TMC 155-1 FL Plots:



The Panel agreed that the FL data looks reasonable and close enough to the J2360 limits.

A motion made by D. Bell and 2<sup>nd</sup> by B. Grinfield was unanimously approved with 8 votes to adjourn the OSCT Panel meeting at 1:16 pm on 11/10/2020.

Respectfully Submitted,

Donald Bell/OSCT Chairman

# Appendix

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: Nov. 10, 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
RB	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
DB	V	Dylan Beck	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: 412-365-1037 e-Mail: djb@astmtmc.cmu.edu
DB	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
	V	Mike Cabaj	McLaren/Linamar	Phone: 313-820-0119 e-Mail: Michael.cabaj@linamar.com
	NV	Jeff Clark	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: 412-365-1032 e-Mail: jac@astmtmc.cmu.edu
AC	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
	V	Vince Donndelinger	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-6589 e-Mail: Vince.donndelinger@lubrizol.com
V-D	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

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: 4/10/20

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
AG	NV	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: 914-785-2083 e-Mail: Arjun.goyal@basf.com
RL	V	Rebecca Grinfield	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-3652 e-Mail: bgrinfield@swri.org
	NV	Derek Grosch	TEI	e-Mail: dgrosch@tei-net.com
	NV	Kimberly Gutierrez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail: kimberly.hernandez@intertek.com
	NV	Dan Horvath	Afton Chemical 2000 Town Center Southfield, MI 48075	e-Mail: dan.horvath@aftonchemical.com
PK	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
	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
JL	NV	Jessica LaBond	Meritor 2135 W. Maple Rd. Troy, MI 48084	Phone: 248-872-3055 e-Mail: jessica.labond@meritor.com
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ML	V	Mike Lopez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail: mike.lopez@intertek.com

# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: 11/10/20

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
<i>DM</i>	V	Donna Mosher	BASF 100 Park Ave. Florham Park, NJ	Phone: 269-217-1715 e-Mail: Donna.mosher@basf.com
<i>TM</i>	V	Troy Muransky	AAM 1840 Holbrook Detroit, MI 48212	e-Mail: troy.muransky@aam.com
<i>MS</i>	NV	Matt Sangpeal	Afton Chemical Ashland Technical Center 11289 Central Drive Ashland, VA 23005	Phone: 804-788-5364 e-Mail: matt.sangpeal@aftonchemical.com
<i>RS</i>	NV	Robert Slocum	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail: robert.slocum@lubrizol.com
<i>DS</i>	NV	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 412-855-6854 e-Mail: Dale.smith@intertek.com
<i>WV</i>	NV	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail: Wes.venhoff@lubrizol.com
<i>RB</i>	NV	Rebecca Warden	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-6266 e-Mail: Rebecca.Warden@SWRI.org
<i>DV</i>	NV	Dairene Uy	Shell General Motors	e-Mail: dairene.uy@shell.com Phone: 248-977-9214
	NV	Khaled Zreik		e-Mail: Khaled.zreik@gm.com
<i>AZ</i>	NV	Amy Zyski	Dana Inc. 3939 Technology Drive Maumee, OH 43537	Phone: 419-887-3432 e-Mail: Amy.zyski@dana.com

*ES NV Eric Sattler Army*