Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

May 12, 2021

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel Microsoft Teams virtual meeting was called to order by D. Bell at 2:45 pm on 5/12/2021, and the agenda was reviewed.

The 12 OSCT Surveillance Panel voting member list below was reviewed. A motion made by D. Bell and 2nd by M. Lopez was unanimously approved with 10 votes to substitute J. LaBond with J. Carter from Meritor as a voting member. W. Venhoff to discuss Panel participation with V. Donndelinger to decide if he should continue to be a voting member.

•	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 D. Bell and 2^{nd} by B. Grinfield was unanimously approved with 10 votes to approve the OSCT meeting minutes posted to the TMC website for 11/10/2021.

Labs C and G can conduct ASTM D5662 PA, FL, and NI tests with no known stand/bath issues.

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

•	PA365	TEI has 48 approved slabs
•	PA366	TEI has 281 approved slabs
•	PA367	TEI has 259 approved slabs
•	PA368	TEI has 259 approved slabs

TEI was instructed to send out the oldest slabs first to avoid shelf life issues. PA and FL have a 5 year shelf life, while NI has a 3 year shelf life.

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

•	FL410	TEI has 18 approved slabs
•	FL411	TEI has 35 approved slabs
•	FL412	TEI has 98 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

Since the current inventory of all three elastomers was considered sufficient, TEI was not instructed to order any more at this time. TEI was asked to determine the start date for the shelf life of both NI slab batches.

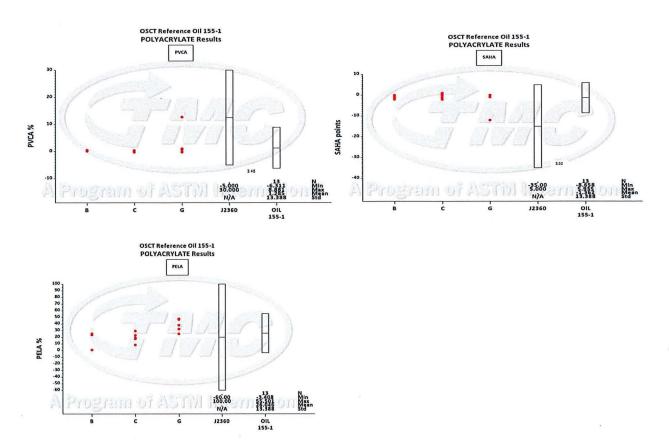
TMC reviewed OSCT LTMS edits. A motion made by D. Beck and 2nd by B. Grinfield was unanimously approved with 10 votes to add reference oil 169 to the Table on page 36-2 and to replace "test stand chart" with "Shewhart" on page 36-3 as highlighted in red below to be effective May 27, 2021.

Elastomer Type	Oil Assignments	
PA	Assign reference oils 160, 161, 169 or 171 (or subsequent reblends) for every calibration sequence.	
FL	FL Assign reference oils 160, 161, 169 or 171 (or subsequent reblends) for every calibration sequence.	
NI	Assign reference oils 161, 162, 168, 169, or 170 (or subsequent reblends) for every calibration sequence.	

The following are steps that must be taken in the case of exceeding control chart limits.

Exceed test stand chart Shewhart limit for severity (all parameters)

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. Lab G's PA364 results for % volume change (PVCA) and shore hardness (SAHA) were outliers as shown in the attached TMC graphed PA plots, while the % elongation change (PELA) was only slightly above the average.



Lab G repeated PA364 in TMC 155-1 and the TMC tabulated results are more in line with the average and standard deviation for PVCA and SAHA, indicating the initial results were definitely outliers, thus Lab G is in control for PA testing in TMC 155-1.

testkey	Itmslab	val	ind	Itmsdate	CHART	PVCA	SAHA	PELA	EBC		- Repeat result
131592-OSCT	G	NI	155-1	20211214	N	-0.2	2	42.2	PA364	4	repearion
131591-OSCT	G	NI	155-1	20200928	N	12.7	-12	32.2	PA364	4	_ T., '4' - 1 14 -
148362-OSCT	С	NI	155-1	20200924	N	-0.1	0.3	29.3	PA364		Initial results
120859-OSCT	С	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	С	NI	155-1	20171221	N	0.3	-2	23.2	PA359		
120865-OSCT	В	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	В	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	С	NI	155-1	20161013	N	0.1	-1	19.4	PA355		
116409-OSCT	В	NI	155-1	20160412	N	0.3	0	1	PA355		
111179-OSCT	С	NI	155-1	20150927	N	0.4	1	8.6	PA352		
					AVG.	1.28	-1.36	26.04	N Size	14	
					STD.	3.45	3.32	13.38			

A motion made by D. Bell and 2^{nd} by B. Grinfield was unanimously approved with 10 votes to adjourn the OSCT Panel meeting at 3:02 pm on 5/12/2021.

Respectfully Submitted,

Donald Bell/OSCT Chairman

Appendix

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: May 12, 202 (

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / F	AX / e-Mail
	NV	Nancy Aguirre	Intertek Automotive Research 5404 Bandera Road	Phone: e-Mail:	210-647-9428 Nancy.AGUIRRE@Intertek.com
			San Antonio, TX 78238	Dhamai	678-493-3930
RB	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive	Phone: e-Mail:	Rob.a.banas@exxonmobil.com
			Canton, GA 30114	Phone:	412-365-1037
DB	V	Dylan Beck	6555 Penn Ave. Pittsburgh, PA 15206	e-Mail:	djb@astmtmc.cmu.edu
	NV	Mesfin Belay	Daimler	e-Mail	Mesfin.belay@daimler.com
- 0		Don Bell	Afton Chemical Corp.	Phone:	804-788-6332
DIR	V	Chairperson	500 Spring Street Richmond, VA 23219	e-Mail:	don.bell@aftonchemical.com
		Miles Oaksi	McLaren/Linamar	Phone:	313-820-0119
_	V	Mike Cabaj		e-Mail:	Michael.cabaj@linamar.com
(()	V	Jason Carter	Meritor	e-Mail	Jason.carter@meritor.com
			TMC	Phone:	412-365-1032
	NV	Jeff Clark	6555 Penn Ave. Pittsburgh, PA 15206	e-Mail:	jac@astmtmc.cmu.edu
			US Army CCDC-GVSC		
20	V	Allen Comfort	RDTA-DP/MS110	Phone:	586-282-4225
k,			6501 E. 11 Mile Road Warren, MI 48307-5000	e-Mail:	Allen.s.comfort.civ@mail.mil
			The Lubrizol Corporation	Phone:	440-347-6589
	V	Vince Donndelinger	29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	Vince.donndelinger@lubrizol.com
			The Lubrizol Corporation		
(NV	Kristijan Drlja	29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	KRDR@lubrizol.com
			The Lubrizol Corporation	Phone:	440-349-2130
	NV	Brian Foecking	29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	bjf@lubrizol.com

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: May 12,2021

Initials V = Voting NV = Non-voting		Name	Company & Address	Phone / F	AX / e-Mail
			BASF	Phone:	914-785-2083
AO	NV	Arjun Goyal	500 White Plains Road	e-Mail:	Arjun.goyal@basf.com
9.50		,	Tarrytown, NJ 10951		7 mjamigoyan@baensem
			Southwest Research Institute	Phone:	210-522-3652
20	V	Rebecca Grinfield	P.O. Drawer 28510	e-Mail:	bgrinfield@swri.org
			San Antonio, TX 78228-0510		25 mileta (25 mileta)
	NV	Derek Grosch	TEI	e-Mail:	dgrosch@tei-net.com
			Intertek Automotive Research		
11	NV	Kimberly Gutierrez	5404 Bandera Road	e-Mail:	kimberly.hernandez@intertek.com
4		,	San Antonio, TX 78238	o Man.	Kimbony.nomanasz@manak.com
			Afton Chemical		
	NV	Dan Horvath	2000 Town Center	e-Mail:	dan.horvath@aftonchemical.com
			Southfield, MI 48075		
í			Test Engineering Institute	Phone:	210-690-1958
11/	V	Clayton Knight	12718 Cimarron Path	e-Mail:	cknight@tei-net.com
06			San Antonio, TX 78249		- mgmgmg.
			Test Engineering Institute		
	NV	Dan Lanctot	12718 Cimarron Path	e-Mail:	dlanctot@tei-net.com
			San Antonio, TX 78249		
			Meritor	Phone:	248-872-3055
	NV	Jessica LaBond	2135 W. Maple Rd.	e-Mail:	jessica.labond@meritor.com
			Troy, MI 48084		
			Intertek	Phone:	210-634-1103
V	NV	Anthony Lange	5404 Bandera Rd.	e-Mail:	anthony.lange@intertek.com
r			San Antonio, TX 78238		, , ,
			Intertek Automotive Research		
ML	V	Mike Lopez	5404 Bandera Road	e-Mail:	mike.lopez@intertek.com
1.10			San Antonio, TX 78238		
			BASF	Phone:	269-217-1715
DW	V	Donna Mosher	100 Park Ave.	e-Mail:	Donna.mosher@basf.com
ソ、			Florham Park, NJ		
^			AAM		
(M)	V	Troy Muransky	1840 Holbrook	e-Mail:	troy.muransky@aam.com
1111			Detroit, MI 48212		

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: May 12, 202

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / F	AX / e-Mail
NS	NV	Matt Sangpeal	Afton Chemical Ashland Technical Center 11289 Central Drive Ashland, VA 23005	Phone: e-Mail:	804-788-5364 matt.sangpeal@aftonchemical.com
	NV	Eric Sattler	US Army CCDC-GVSC RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: e-Mail:	Eric.r.sattler.civ@mail.mil
25	NV	Robert Slocum	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	robert.slocum@lubrizol.com
05	NV	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: e-Mail:	412-855-6854 Dale.smith@intertek.com
N	NV	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	Wes.venhoff@lubrizol.com
8W	NV	Rebecca Warden	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: e-Mail:	210-522-6266 Rebecca.Warden@SWRI.org
	NV	Dairene Uy	Shell	e-Mail:	dairene.uy@shell.com
	NV	Khaled Zreik	General Motors	Phone: e-Mail:	248-977-9214 Khaled.zreik@gm.com
XX	NV	Amy Zyski	Dana Inc. 3939 Technology Drive Maumee, OH 43537	Phone: e-Mail:	419-887-3432 Amy.zyski@dana.com