

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

February 8, 2023

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel meeting was called to order by D. Bell at 11:48 am on 2/8/2023.

A motion made by D. Bell and 2nd by T. Muransky was unanimously approved with 12 votes to approve the previous OSCT Surveillance Panel minutes from meeting held 11/9/2022

The OSCT membership list was reviewed. J. Clark from TMC and R. Slocum from Lz were removed as non-voting members. The 13 voting members were considered sufficient.

Lab C has 3 baths and Lab G has 1 bath for testing PA, FL and NI with no bath issues.

The inventory of elastomer batches at Test Engineering Institute (TEI) was reviewed as follows:

Polyacrylate (PA):

- PA367 99 approved slabs
- PA368 259 approved slabs
- PA369 TEI recently ordered

Fluoroelastomer (FL):

- FL410 18 approved slabs
- FL414 0 approved slabs
- FL415 182 approved slabs
- FL416 TEI ordered recently

Nitrile (NI):

- NI353 130 approved slabs
 - Lab C ran 4 times and failed 3 due to PELA high and SAHA low of targets that were not observed when approved
 - Requested Lab G to donate several runs on TMC 170 with NI353 to see if they observe similar issues

- NI354 260 slabs—passing data submitted to TMC from both labs and was reviewed.

		testkey	ltmslab	val	ind	ltmsdate	CHART	PVCA	SAHA	PELA	EBC
170	Approval Run	169600-OSCT	C	AC	170	20220930	Y	2	2.3	-65.4	NI354
	Accompanying Ref	169601-OSCT	C	AC	170	20220930	Y	2.8	1.8	-65.7	NI353
169	Approval Run	172192-OSCT	C	AC	169	20220930	Y	11.3	-8.8	-18.1	NI354
	Accompanying Ref	169601-OSCT	C	AC	170	20220930	Y	2.8	1.8	-65.7	NI353

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 12 votes to effective immediately approve NI354 for ASTM D5662 testing. TEI was informed to release NI354 for sale to both labs.

BASF and Afton Chemical sponsored testing at Labs C & G on J2360 quality oils using current D5662 PA, FL and NI. BASF ran the Eaton FE 75W-90 and Afton ran the Dana 75W-90 (AGF000116B01) and TMC 155-1 (RIC22-11690) industry reference oil. PA & FL were run for 1000 hours at 150°C, while the more sensitive NI was run at 100°C, all using the same lot of elastomer at each lab. Measurements were taken at 240, 500 and 1000 hours.

The data from both labs was plotted by TMC and reviewed. In quite a few cases, the lab results, especially PELA, appeared to be different by a sign convention, so both labs are to review their data to ensure there was no reporting errors associated with the signs. The TMC was also requested to re-plot the data with the J2360 limits to see if the results are still within the passing bands even after 1000 hours.

A motion made by D. Bell and 2nd by B. Grinfield to adjourn the OSCT Panel Webex at 12:27 pm was unanimously approved with 12 votes.

Respectfully submitted,



Donald R. Bell/Chairman

Appendix

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: Feb. 8, 2023

Initials	V = Voting NV = Non-	Name	Company & Address		
NA	NV	Nick Ariemma	Lubrizol	e-Mail:	Nick.ariemma@lubrizol.com
Rob	V	Rob Banas	ExxonMobil Technology and Engineering Co. 535 Thomas Lane Waleska GA 30183	Phone: e-Mail:	770-833-5920 Rob.a.banas@exxonmobil.com
DB	V	Dylan Beck	TMC 203 Armstrong Dr. Freeport, PA	Phone: e-Mail:	412-365-1037 djb@astmtmc.org
DB	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: e-Mail:	804-788-6332 don.bell@aftonchemical.com
TB	NV	Tobias Bender	Fuchs Lubricants	Phone: e-Mail:	708-737-1681 Tobias.bender@fuchs.com
MC	NV	Margaret Caridi	BASF 500 White Plains Road Tarrytown, NY 10591	Phone: e-Mail:	845-216-5535 margaret.caridi@basf.com
SC	V	Steve Carr	Dana	e-Mail:	Steve.carr@dana.com
tc	V	Jason Carter	Cummins-Meritor	e-Mail	Jason.carter@meritor.com
	NV	Michael Charron	SWRI	e-Mail	Michael.charron@swri.org
	NV	Jeff Clark	TMC	Phone: e-Mail:	412-365-1032 jac@astmtmc.org
	V	Allen Comfort	US Army CCDC-GVSC RDPA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: e-Mail:	586-282-4225 Allen.s.comfort.civ@army.mil
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ly	NV	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	Phone: e-Mail:	914-330-4362 Ariun.goyal@basf.com
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NS

NV