

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

May 8, 2019

Don Bell

Participants via Webex or on site: See attachment in Appendix.

An OSCT Surveillance Panel Webex meeting at Automation Alley in Troy, MI was called to order by D. Bell at 2:00 pm on 5/8/2019.

The 11 OSCT voting member list was reviewed. A motion made by D. Bell and 2nd by A. Goyal was unanimously approved with 8 votes to add Mike Cabaj from Linamar and Amy Zyski from Dana as voting members of OSCT Surveillance Panel.

A motion made by D. Bell and 2nd by W. Venhoff was unanimously approved with 8 votes to approve of OSCT meeting minutes from 2/13/2019, 4/15/2019, and 4/18/2019 which are posted on the TMC website.

The OSCT Panel was reminded that the shelf life for polyacrylate (PA) and fluoroelastomer (FL) seals was increased from 2 years to 5 years after the cure date, as long as they are stored in the refrigerator at 3-6°C. The supplier, FNOK, recommends a nitrile (NI) shelf life maximum of 3 years instead of our current 2 years. A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 8 votes to increase the NI shelf life to 3 years from the cure date, as long as they are stored in refrigerator at 3-6°C. The TMC will issue another information letter as they did for the PA and FL shelf life increase to document the NI shelf life increase from 2 years to 3 years.

The NI qualification status was also reviewed as follows:

- NI348: Approved but TEI has 0 slabs.
- NI349: Approved, TEI has 164 slabs.
- NI350: Approved, TEI has 278 slabs.
- NI351: TEI ordered 2/2019

The polyacrylate (PA) qualification status was also reviewed as follows:

- PA360: TEI has 42 approved slabs and both labs have ample inventory.
- PA361: TEI has 214 non-approved slabs. Initially rejected due to Lab B having unacceptable results, but now that Lab B is not participating, we request Lab C and G to conduct testing on 12 specimens in TMC 171 and Lab G to test with TMC 169 to complete the matrix below and submit results to TMC for approval.

PA361				
		Lab B	Lab C	Lab G
160-1 Oil	Approval Run	No longer participating		125833-OSCT
	Accompanying Reference			123948-OSCT
169 Oil	Approval Run		133393-OSCT	
	Accompanying Reference		127856-OSCT	

- PA362: Approved but TEI has no slabs.
- PA363: TEI has >200 non-approved slabs. In order to complete the matrix below, Lab G to complete qualification testing on 12 specimens in TMC 171.

PA363				
		Lab B	Lab C	Lab G
160-1 Oil	Approval Run			
	Accompanying Reference			
169 Oil	Approval Run	135210-OSCT		
	Accompanying Reference	135211-OSCT		
171 Oil	Approval Run			
	Accompanying Reference			

- PA364: In order to complete the matrix below, Lab G needs to complete qualification testing in TMC 171 with 12 specimens.

PA364				
		Lab B	Lab C	Lab G
171 Oil	Approval Run			
	Accompanying Reference			
169 Oil	Approval Run			
	Accompanying Reference			

- PA365 & 366: EI has >200 non-approved slabs each, so both labs to run in 169 & 171.

Both test labs were concerned that the current Shewhart Severity limits use three places to the right of the decimal, while the labs are required to report hardness values to a whole number. With this being the case, labs will likely fail hardness on what is considered an acceptable batch only because they cannot round to whole numbers. The labs want the limits to be in whole numbers to match the required reporting format. TMC agreed to review the data for possible switch to acceptance band limits, which will allow rounding and thus whole number targets. D. Bell will call an OSCT Surveillance Panel webex once TMC has completed their data review.

The fluoroelastomer (FL) qualification status was reviewed as follows:

- FL405: Approved, but TEI has 0. Lab B sent the last of their small quantity to Lab B for referencing FL407-409.

Lab G has a sufficient quantity of approved FL to conduct qualification testing on FL407-409.

- FL406: Approved, but TEI has 0.
- FL407: TEI has 167 non-approved slabs. Both test labs were very concerned that TMC 171 limits were established on only 4 data points and thus not a sufficient data set to show the true variability of results in this reference oil, which they have already shown to be more severe than TMC 160-1 that it replaced. Therefore, if TMC assigns TMC 171 for referencing FL407-409, then it is very probable results will fail and thus there will be no more approved FL to conduct J2360 candidate testing. A motion made by K. Gutierrez and 2nd by B. Grinfield was unanimously approved with 8 votes to **conduct reference testing associated with FL407 approval on FL406 elastomer using only TMC 160-1 and 169** until more data is generated on TMC 171 to establish new limits. Lab B will ship any remaining inventory of TMC 160-1 to TMC to be distributed to Labs C and G if needed for FL testing. TMC will compile more TMC 171 data, which now is at least 9 data points, so that the Panel can review proposed new limits. The reference on FL406 is to not have TMC 171 oil assigned for it. The approval matrix for FL407 must be run with TMC 169 and TMC 171 and results reported to TMC for approval.

		Lab B	Lab C	Lab G
160-1 Oil	Approval Run			
	Accompanying Reference			
169 Oil	Approval Run			
	Accompanying Reference			

- FL408 and FL409: Both labs have elastomers for qualification testing in TMC 169 and 171 since there is insufficient 160-1 to qualify both.

Lab G has submitted passing PA and FL data in TMC 155-1 industry reference oil as annually required. Lab B to conduct TMC 155-1 testing with PA and FL once a sufficient quantity is approved for use. Once all labs report passing results, TMC will distribute results to the Panel.

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 8 votes to adjourn the OSCT Panel meeting at 2:58 pm on 5/8/2019.

Respectfully Submitted,



Donald Bell/OSCT Chairman

Appendix

5/8/2019

Date:

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Nancy Aguire	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 210-647-9428 e-Mail: Nancy.AGUIRRE@intertek.com
	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@astrmtmc.cmu.edu
DB	V	Don Bell Chairperson	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-6332 e-Mail: don.bell@aftonchemical.com
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	NV	Jeff Clark	TMC 6555 Penn Ave. Pittsburgh, PA 15206	Phone: 412-365-1032 e-Mail: jac@astrmtmc.cmu.edu
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	V	Vince Donndelinger	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-6589 e-Mail: Vince.donndelinger@lubrizol.com
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Date:

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Initials	V = Voting NV = Non-Voting	Name	Company & Address	Phone / FAX / e-Mail
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