

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

August 13, 2025

Don Bell

Participants listed on attachment in Appendix.

Action Items:

- TMC to plot qualification data for PA372 from both labs and email to D. Bell for review at an upcoming OSCT Panel meeting
- TMC to send NI reference fluid to FNOK
- Labs C and G to complete qualification testing of FL421 and email data to TMC
- Labs C and G to complete annual testing of PA and FL with TMC155-2 around September 2025 and email data to TMC for graphing
- Labs C and G to complete the matrix testing for TMC170-1, TMC171-1, and TMC172

An OSCT Surveillance Panel Teams meeting was called to order by D. Bell at 12:36 pm on 8/13/2025.

A motion made by D. Bell and 2nd by D. Beck was unanimously approved with 14 votes to approve OSCT meeting minutes posted on the TMC website from 5/7/2025, 7/8/2025, and 7/23/2025.

The OSCT voting member list of 14 was reviewed. A motion made by D. Bell and 2nd by N. Schaup was unanimously approved with 14 votes to add J. Grewe from Lubrizol as a voting member to replace N. Ariemma who resigned from Lubrizol.

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

The Testing Engineering Institute provided their inventory of all three elastomers:

Polyacrylate:

---PA370 29 approved slabs (reserved for emergency use)
---PA371 249 approved slabs
---PA372 288 unapproved slabs, TMC to compile qualification data from both labs since they confirmed data was submitted

Fluoroelastomer:

---FL420 92 approved slabs
---FL421 184 unapproved slabs, await qualification data from both labs

---FL422 Ordered by TEI

Nitrile:

- NI354 58 approved slabs
- NI355 275 approved slabs, but only with TMC169 since both labs unable to pass in TMC170.
- NI356 272 approved slabs, but only with TMC169.
- NI357 FNOK to produce ~300 slabs since NI356 was on the low side of the specific gravity specification and gave failing qualification results in TMC170.

The seal supplier, FNOK, was not able to find any raw material or processing changes that could explain why NI355 and NI356 could not be qualified at both labs. FNOK would like TMC to send them the NI reference fluid so that they can conduct their own testing to confirm our results. When FNOK produces NI357, they will send two slabs to SWRI to conduct D5662 testing to confirm it meets limits for qualification prior to shipping to TEI for distribution to test labs.

Both labs were reminded to complete their annual testing with TMC155-2 industry reference to ensure D5662 is in-control and report data to TMC for graphing to review with the OSCT Panel.

The TMC conducted FTIR overlay for TMC 170 and the reblend, TMC170-1, and showed they do not completely match. Since TMC170 is 9 years old and well beyond the 5 year shelf life, it is likely that it has degraded and thus could be the reason for the failing qualification results observed from both labs on this lot of TMC170.

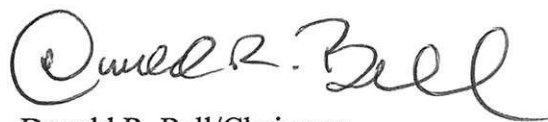
All three TMC reference oils are well beyond the 5 year shelf life, so new reference oils were blended and shipped to TMC for sending to labs for conducting approval matrices recommended by the Stats Group. TMC 169 for PA, FL and NI is being replaced with TMC 172. The labs are conducting a matrix of 2 runs per bath per elastomer. Lab G submitted their data to TMC, but Lab C is waiting on approval of NI lots.

TMC 170 for NI is being rebled with TMC 170-1. The labs are conducting a matrix of 2 runs per bath per elastomer. Labs were instructed to complete the TMC 170-1 approval matrix to generate enough data points (8) to set its own targets.

TMC 171 for PA and FL is being replaced with TMC 171-1. The labs are conducting a matrix of 2 runs per bath per elastomer run along side an accompanying reference on TMC171 or 169.

A motion made by D. Bell and 2nd by B. Grinfield was unanimously (14 votes) approved to adjourn the OSCT Panel meeting at 1:02 pm.

Respectfully submitted,

A handwritten signature in black ink, reading "Donald R. Bell". The signature is written in a cursive style with a large, circular initial "D" and a long, sweeping underline.

Donald R. Bell/Chairman

Appendix

Oil Seal Compatibility Surveillance Panel









Date:

8/13/2025

V = Voting

NV = Non-voting

Initials	V = Voting NV = Non-voting	Name	Company & Address	e-Mail	Phone #
DB	V	Dylan Beck	TMC, 203 Armstrong Dr. Freeport, PA	djb@astmtmc.org	412-365-1037
DB	V	Don Bell (Chairman)	Afton Chemical, 500 Spring St. Richmond, VA 23219	don.bell@aftonchemical.com	804-788-6332
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	NV	Maxim Burgman	Fuchs Lubricants	maxim.burgman@fuchs.com	248-846-3120
MC	NV	Bob Campbell	Afton Chemical, 500 Spring St. Richmond, VA 23219	bob.campbell@aftonchemical.com	804-788-5340
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JFC	V	Jessica Carowick	Cummins, 2135 W. Maple Rd. 48084	jessica.carowick@cummins.com	248-872-3055
MC	NV	Michael Charron	SWRI, W. Commerce, San Antonio, TX 78227	michael.charron@swri.org	
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Arjun	NV	Arjun Goyal	BASF, 500 White Plains Rd. Tarrytown, NY 10591	arjun.goyal@basf.com	914-330-4362
Becky	V	Becky Grinfield	SWRI, W. Commerce, San Antonio, TX 78227	becky.grinfield@swri.org	

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	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	cknight@tei-net.com	210-690-1958
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<i>WNV</i>	V	Mia Will	Intertek, 5404 Bandera Rd., San Antonio, TX 78238		mia.will@intertek.com	
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	NV	Amanda Stone	Afton Stats			
	NV	Ricardo Affinito	Stats Group			
	NV	Jo Martinez	Stats Group			
	NV	S. Moyer	Stats Group			
	NV	T. Kostan	Stats Group			
	NV	Y. Rocha	Intertek, 5404 Bandera Rd., San Antonio, TX 78238			
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