

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

November 12, 2025

Don Bell

Participants listed on attachment in Appendix.

Action Items:

- TEI to release the newly approved FL421 for sale as orders are received from test labs
- Labs C and G to complete the annual TMC155-2 testing and the matrix testing for TMC 170-1 and TMC 172 as bath time allows

An OSCT Surveillance Panel Teams meeting was called to order by D. Bell at 12:45 9m on 11/12/2025.

The voting member list was reviewed and it was agreed upon to add C. McCollum from Richful as a new voting member increasing membership to 16.

A motion made by D. Bell and 2nd by T. Muransky was unanimously approved with 12 votes to approve the OSCT meeting minutes from 8/13/2025 and 9/9/2025.

Both labs C and G confirmed that there are no testing issues at either lab.

The seal inventory provided by Test Engineering Institute (TEI) was reviewed:

Polyacrylate:

- PA370---29 approved slabs
- PA371---249 approved slabs
- PA372---288 approved slabs

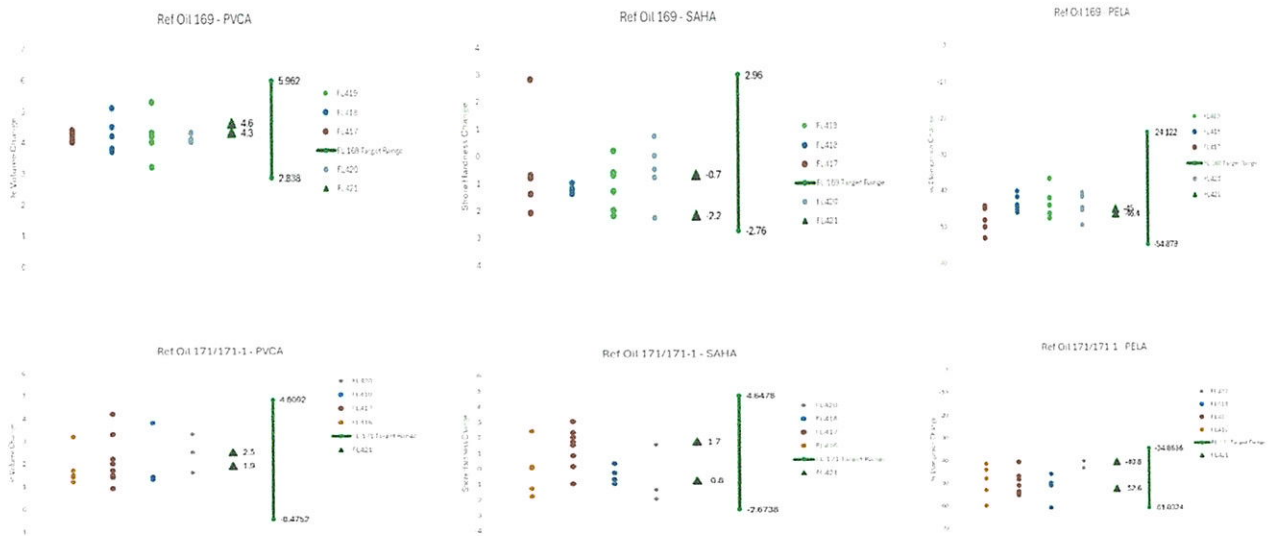
Fluoroelastomer:

- FL421---184 approved slabs (see approved data below)
- FL422---184 unapproved slabs, but some slabs sent to both labs for qualification testing

Nitrile:

- NI354---58 approved slabs
- NI355---275 approved slabs but only with TMC169 (not TMC170)
 - This lot passed FNOK QC, but Panel rejected for use with TMC170
 - D. Bell filed formal quality complaint with FNOK so they will provide NI357 free of charge
 - FNOK also agreed to pre-ship several slabs of future lots of seals to SWRI for ASTM D5662 testing, and only release slabs with passing data
- NI356---272 approved slabs but only with TMC169
 - FNOK confirmed this lot is low on specific gravity outside of limits
 - FNOK agreed to also produce NI358 for free

TMC plotted qualification data submitted from both labs for FL421 in both reference oils TMC169 and TMC 171 as shown below:



The FL421 data matches fairly well between both labs and all data within the target range for all three parameters. A motion made by D. Bell and 2nd by B. Grinfield to effectively immediately approve FL421 for testing against ASTM D5662 was unanimously approved with 12 votes. TEI was instructed to release FL421 for sale.

To help ensure both labs are in-control, they were reminded to conduct the annual D5662 testing of PA and FL in the industry reference oil, TMC 155-2, and send data to TMC for graphing for Panel review. Lab C failed the accompanying reference, so they are repeating the testing.

The replacement reference oil for TMC171 was approved 9/10/2025 as TMC171-1 for PA and FL testing.

TMC170-1 is a reblend of TMC170 for NI testing. Both labs continue to conduct matrix testing of 2 runs per bath per elastomer with TMC170-1 run along side accompanying TMC170. The table below highlights the status with green being completed.

Reference oil 170-1 Approval Runs		
2 runs per elastomer per batch		
Lab	Bath	NI Runs
C	1	
	2	
	4	
G	B1	

TMC169 is being replaced with TMC172 for all 3 elastomer testing. The table below highlights the status with green being completed.

Reference oil 172 Approval Runs				
2 runs per elastomer per batch				
Lab	Bath	NI Runs	FL Runs	PA Runs
C	1			
	2			
	4			
G	81			

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 12 votes to adjourn the OSCT Panel meeting at 1:01 pm.

Respectfully submitted,



Donald R. Bell/Chairman

Appendix

Oil Seal Compatibility Surveillance Panel

Date:

11/12/2025

V = Voting

NV = Non-voting

Initials		Name	Company & Address	e-Mail	Phone #
<i>DR</i>	V	Dylan Beck	TMC, 203 Armstrong Dr. Freeport, PA	djb@astmtmc.org	412-365-1037
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<i>AR</i>	NV	Arjun Goyal	BASF, 500 White Plains Rd. Tarrytown, NY 10591	arjun.goyal@basf.com	914-330-4362
<i>JG</i>	V	Jake Grewe	Lubrizol	jake.grewe@lubrizol.com	

KS

NV

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	NV	Ricardo Affinito	Stats Group			
	NV	Jo Martinez	Stats Group			
	NV	S. Moyer	Stats Group			
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