

# Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

August 10, 2022

Don Bell

Participants listed on attachment in Appendix.

An OSCT Surveillance Panel meeting was called to order by D. Bell at 12:01 pm on 8/10/2022.

The list of 12 voting members was reviewed. Since M. Cabaj resigned from Linamar, he was removed as a voting member with no replacement at this time.

A motion made by D. Bell and 2<sup>nd</sup> by T. Muransky was unanimously approved with 8 votes to approve the two previous OSCT Surveillance Panel minutes from meetings held 2/9/2022 and 6/17/2022.

Labs C and G can conduct PA, FL, and NI testing with 3 baths at Lab C and 1 at Lab G and no stand/bath issues.

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

## Polyacrylate:

- PA366-----21 approved slabs
- PA367-----259 approved slabs
- PA368-----259 approved slabs

## Fluoroelastomer:

- FL410-----18 approved slabs
- FL414-----179 approved slabs
- FL415-----200 approved slabs

## Nitrile:

- NI351----Initially expired 2/24/22 but Panel approved expiration date to 8/24/2022 with 41 approved slabs remaining
- NI352----Rejected due to failures in TMC 170
- NI353----260 slabs, and qualification data was reviewed below
- NI354----260 slabs, with some sent to both labs for qualification testing

D. Beck from the Test Monitoring Center (TMC) reviewed the NI353 elastomer qualification data below submitted to them by Labs C and G. Data in both TMC reference oils, TMC 169 and 171 are shown along with the passing %elongation, shore hardness, and %volume change.

NI353 Approval Matrix for Lab C:

NI353 Elastomer Batch Approval Matrix													
		testkey	lmslab	val	ind	lmsdate	PVCA	SAHA	PELA	EBC	PELAYI	SAHAYI	PVCAYI
169	Accompanying Ref	169592-OSCT	C	AC	169	20220425	13.3	-9.6	-16.7	NI351	-0.04677	-0.45872	0.877193
	Approval Run	169593-OSCT	C	NI	169	20220425	13.2	-9.7	-14.5	NI353	0.159027	-0.50459	0.818713
170	Approval Run	169598-OSCT	C	NI	170	20220425	2.7	2.2	-68.1	NI353	0.857998	-0.36657	1.671309
	Accompanying Ref	169592-OSCT	C	AC	169	20220425	13.3	-9.6	-16.7	NI351	-0.04677	-0.45872	0.877193

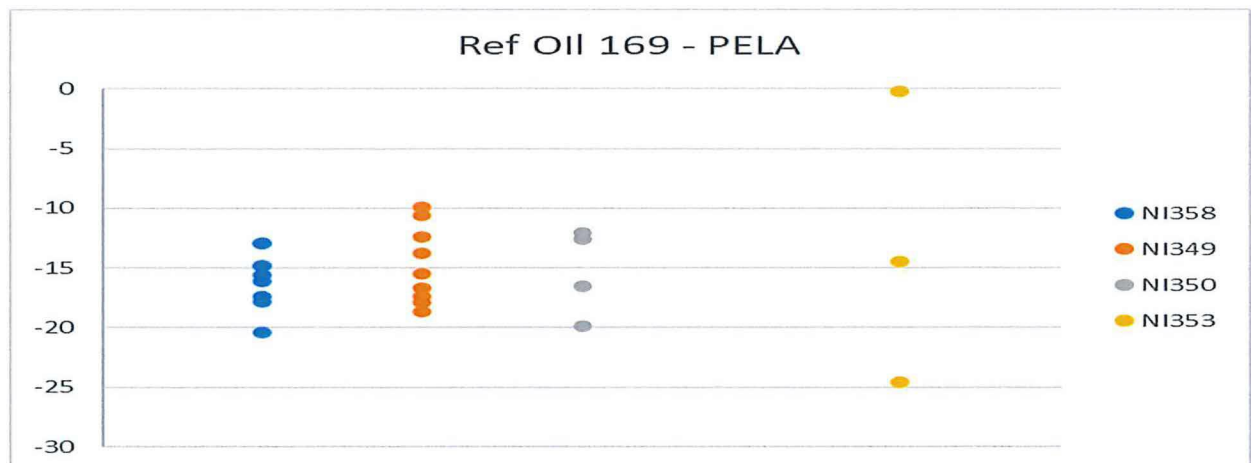
Y(i) limits = +/- 2.200

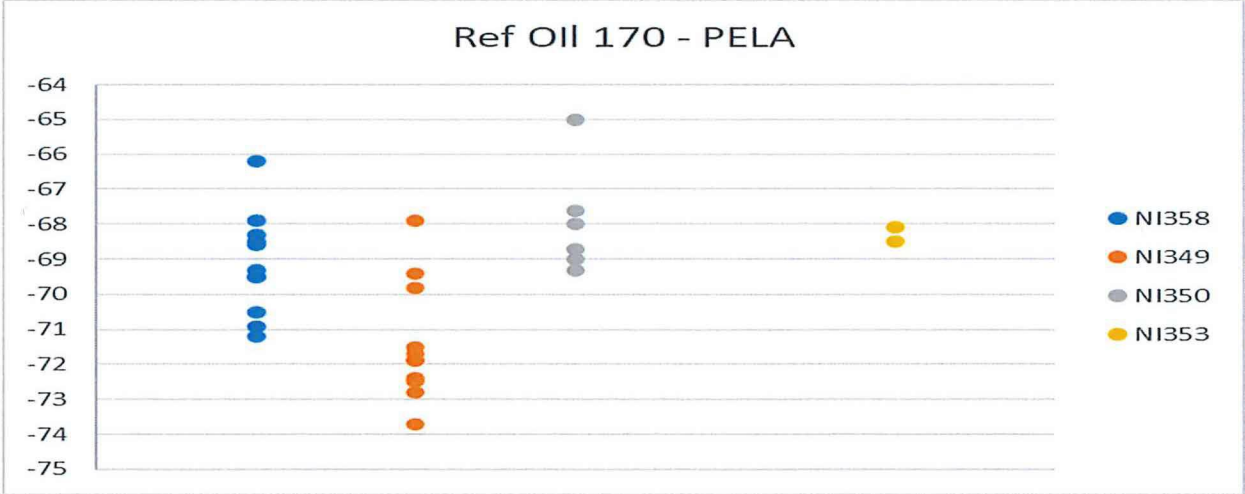
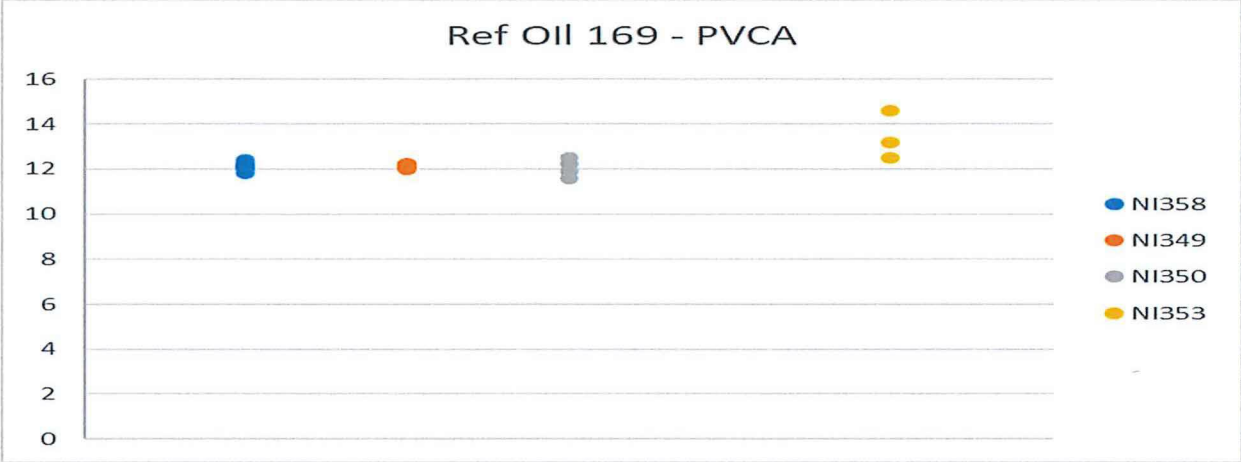
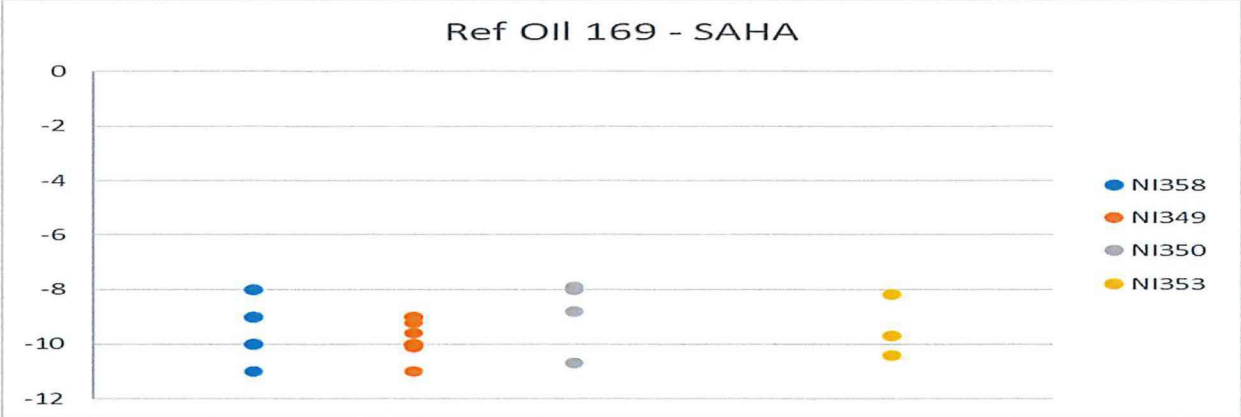
NI353 Approval Matrix for Lab G:

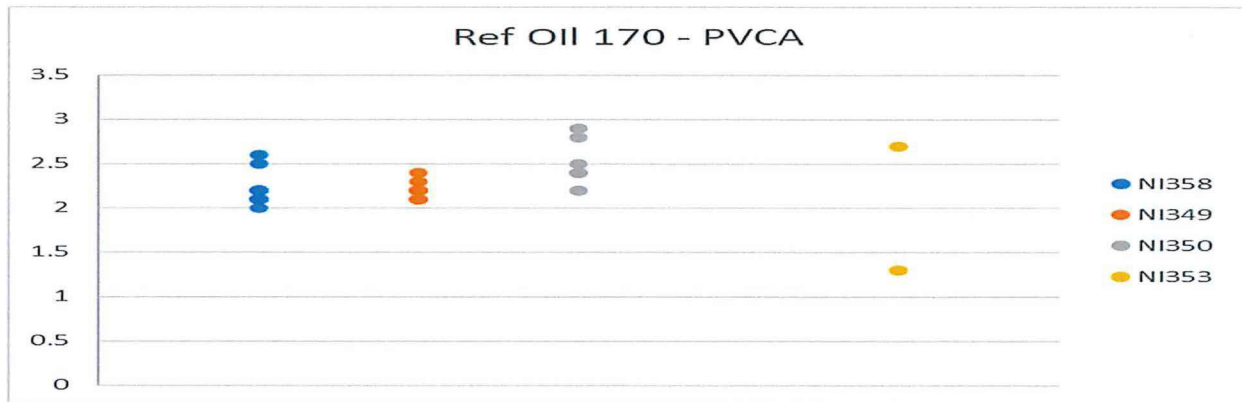
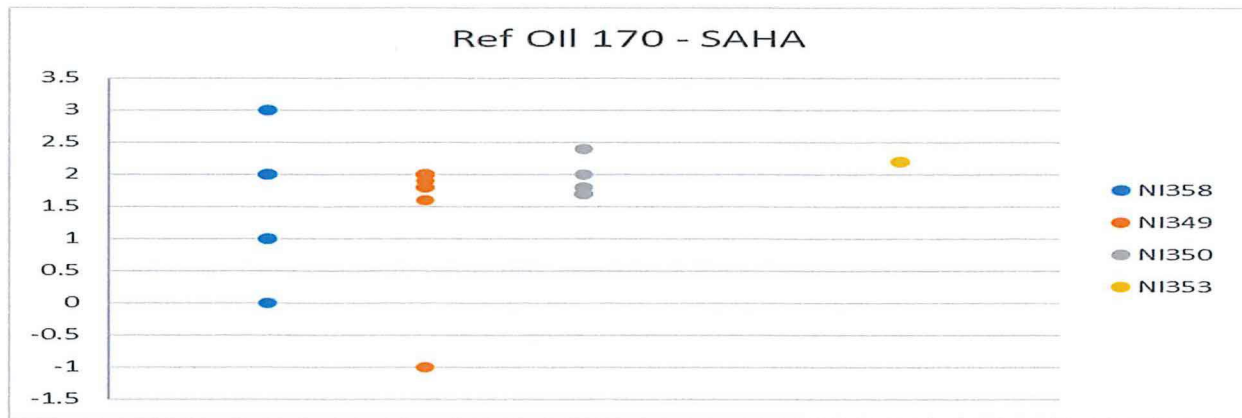
NI353 Elastomer Batch Approval Matrix													
		testkey	lmslab	val	ind	lmsdate	PVCA	SAHA	PELA	EBC	PELAYI	SAHAYI	PVCAYI
169	Accompanying Ref	166141-OSCT	G	AC	169	20220718	12.8	-8.8	-19.6	NI351	-0.31805	-0.09174	0.584795
	Approval Run	166142-OSCT	G	NI	169	20220718	12.5	-10.4	-24.6	NI353	-0.78578	-0.82569	0.409357
170	Approval Run	166143-OSCT	G	NI	170	20220718	1.3	2.2	-68.5	NI353	0.724975	-0.36657	-0.27855
	Accompanying Ref	166141-OSCT	G	AC	169	20220718	12.8	-8.8	-19.6	NI351	-0.31805	-0.09174	0.584795

Y(i) limits = +/- 2.200

TMC plotted the following data from both labs and both reference oils for NI348 through NI353 to show comparative data. Note that in the graphs NI358 should be labelled NI348.







The NI353 data was within the Y(i) acceptable limits for %elongation, shore hardness, and %volume change in both reference oils 169 and 170.

A motion made by D. Bell and 2nd by B. Grinfield was unanimously approved with 8 votes to effectively immediately approve NI353 for ASTM D5662 testing. C. Knight of TEI was instructed to release NI353 for sale as orders are received.

Both labs were reminded to complete their annual testing in TMC 155-1 and the new TMC 155-2 industry reference oils for PA and FL and report data to TMC for plotting and review by the Panel.

Discussions were initiated regarding the industry relevance of the current seals and testing conditions.

A motion made by D. Bell and 2nd by A. Goyal to adjourn the OSCT Panel Webex was unanimously approved with 8 votes to adjourn the meeting at 12:32 pm.

Respectfully submitted,

Donald R. Bell  
OSCT Chairman

# Appendix

**OIL SEAL COMPATIBILITY SURVEILLANCE PANEL**

Date: August 10, 2022 1 of 3

Initials	V = Voting NV = Non-	Name	Company & Address	Phone:	e-Mail:
RB	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	678-493-3930	Rob.a.banas@exxonmobil.com
	NV	Steve Bealko	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	440-347-4356	<a href="mailto:steven.bealko@lubrizol.com">steven.bealko@lubrizol.com</a>
DB	V	Dylan Beck	TMC 203 Armstrong Dr. Freeport, PA	412-365-1037	<a href="mailto:djb@astmtmc.org">djb@astmtmc.org</a>
DB	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	804-788-6332	<a href="mailto:don.bell@aftonchemical.com">don.bell@aftonchemical.com</a>
	V	Jason Carter	Meritor		<a href="mailto:Jason.carter@meritor.com">Jason.carter@meritor.com</a>
MC	NV	Michael Charron	SWRI		<a href="mailto:Michael.charron@swri.org">Michael.charron@swri.org</a>
	NV	Jeff Clark	TMC 203 Armstrong Dr. Freeport, PA	412-365-1032	<a href="mailto:jac@astmtmc.org">jac@astmtmc.org</a>
	V	Allen Comfort	US Army CCDC-GVSC RD TA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	586-282-4225	<a href="mailto:Allen.s.comfort.civ@army.mil">Allen.s.comfort.civ@army.mil</a>
	NV	Brian Foecking	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	440-349-2130	<a href="mailto:bjf@lubrizol.com">bjf@lubrizol.com</a>
<u>Gu</u>	NV	Arjun Goyal	BASF 500 White Plains Road Tarrytown, NJ 10951	914-785-2083	<a href="mailto:Arjun.goyal@basf.com">Arjun.goyal@basf.com</a>

BC ✓ Becky  
Grinfeld SWRI

not present: Jeanelle Morris Navistar

KG	NV	Kimberly Gutierrez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail:	<a href="mailto:kimberly.hernandez@intertek.com">kimberly.hernandez@intertek.com</a>
DA	NV	Dan Horvath	Afton Chemical 2000 Town Center Southfield, MI 48075	e-Mail:	<a href="mailto:dan.horvath@aftonchemical.com">dan.horvath@aftonchemical.com</a>
	NV	Brad Jordan	Shell	Phone: e-Mail:	804-516-1238 <a href="mailto:Brad.jordan@shell.com">Brad.jordan@shell.com</a>
CK	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: e-Mail:	210-690-1958 <a href="mailto:cknight@tei-net.com">cknight@tei-net.com</a>
	NV	Dan Lanctot	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	e-Mail:	<a href="mailto:dlanctot@tei-net.com">dlanctot@tei-net.com</a>
JR	NV	Jessica LaBond	Meritor 2135 W. Maple Rd. Troy, MI 48084	Phone: e-Mail:	248-872-3055 <a href="mailto:jessica.labond@meritor.com">jessica.labond@meritor.com</a>
AJ	NV	Anthony Lange	Intertek 5404 Bandera Rd. San Antonio, TX 78238	Phone: e-Mail:	210-634-1103 <a href="mailto:anthony.lange@intertek.com">anthony.lange@intertek.com</a>
	V	Mike Lopez	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	e-Mail:	<a href="mailto:mike.lopez@intertek.com">mike.lopez@intertek.com</a>
DM	V	Donna Mosher	BASF 100 Park Ave. Florham Park, NJ	Phone: e-Mail:	269-217-1715 <a href="mailto:Donna.mosher@basf.com">Donna.mosher@basf.com</a>
CC	<del>MI</del> NV	Caroline Mueller	SWRI	Phone: e-Mail:	210-522-2671 <a href="mailto:Caroline.louis@swri.org">Caroline.louis@swri.org</a>
JM	V	Troy Muransky	AAM 1840 Holbrook Detroit, MI 48212	e-Mail:	<a href="mailto:troy.muransky@aam.com">troy.muransky@aam.com</a>
SN	NV	Suzanne Neal	Daimler Trucks/Detroit Diesel	e-Mail:	<a href="mailto:Suzanne.neal@daimler.com">Suzanne.neal@daimler.com</a>

MS	NV	Matt Sangpeal	Afton Chemical Ashland Technical Center 11289 Central Drive Ashland, VA 23005	Phone: e-Mail:	804-788-5364 <a href="mailto:matt.sangpeal@aftonchemical.com">matt.sangpeal@aftonchemical.com</a>
ES	NV	Eric Sattler	US Army CCDG-GVSC RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	e-Mail:	<a href="mailto:Eric.r.sattler.civ@army.mil">Eric.r.sattler.civ@army.mil</a>
RS	NV	Robert Slocum	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	<a href="mailto:robert.slocum@lubrizol.com">robert.slocum@lubrizol.com</a>
WV	V	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	e-Mail:	<a href="mailto:Wes.venhoff@lubrizol.com">Wes.venhoff@lubrizol.com</a>
DU	NV	Dairene Uy	Shell	e-Mail:	<a href="mailto:dairene.uy@shell.com">dairene.uy@shell.com</a>
	NV	Khaled Zreik	General Motors	Phone: e-Mail:	248-977-9214 <a href="mailto:Khaled.zreik@gm.com">Khaled.zreik@gm.com</a>
AZ	NV	Amy Zyski	Dana Inc. 3939 Technology Drive Maumee, OH 43537	Phone: e-Mail:	419-887-3432 <a href="mailto:Amy.zyski@dana.com">Amy.zyski@dana.com</a>

NS

NV

Nick Schaup

Lubrizol

MC

NV

Margaret Caridi

BASF

[margaret.caridi@basf.com](mailto:margaret.caridi@basf.com)  
(845) 216-5535

PK

NV

Percy Kang

Retired XOM