

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

July 8, 2025

Don Bell

Participants listed on attachment in Appendix.

Action Items:

- D. Bell to inquire with seal supplier of any changes to NI since NI350, and if they are willing to run testing on NI with TMC 170-1
- TMC to run FTIR overlay for TMC 170 and 170-1 to confirm they match
- Test labs to conduct approval matrix testing on 170-1 to replace 170 for NI testing

An OSCT Surveillance Panel Teams meeting was called to order by D. Bell at 2:03 pm on 7/8/2025.

A motion made by B. Grinfield and 2nd by D. Bell was unanimously approved with 14 votes to approve OSCT meeting minutes posted on the TMC website from 2/12/2025.

D. Beck of TMC provided background to the issue that the test labs have been unable to provide passing %elongation and %volume change values for NI355 and NI356 in TMC170 reference oil. Lab G was able to provide passing data in TMC169 reference oil, so lab C was asked in May to run NI355/356 in TMC169 to determine if they could also provide passing results to allow approval of either NI batch in TMC169 only for an interim solution.

TMC plotted NI data (Appendix) for %elongation change, %volume change and hardness change from NI331 to NI354 to show the variation amongst elastomer batches through the years in TMC 168, 169 and 170. The variation is minimal until introduction of TMC 170, and especially starting with NI351 and newer lots.

TMC 170 for NI is being reblended 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 with the hope that this reblend may reduce variability in results.

The Panel provided a list of questions to ask FNOK at an upcoming virtual meeting later this week to discuss the latest NI batches:

- Can they provide units for their release testing limits and how these were established?
- Will they consider tightening their limits?

- Can we obtain CofAs for NI331 to NI356 and compare to our results in reference fluids?
- What are their Instron settings?
- Would they expect the variation that we are observing in reference oils?
- What changes to process or raw materials may have led to increased NI variability?
- Are they willing to send new lots of NI to lab C or G for qualification testing prior to release of the batch to TEI?
 - Who pays for this—will lab be willing to donate the test?

A motion made by D. Bell and 2nd by H. Hahn was unanimously (4 votes) approved to adjourn the OSCT Panel meeting at 2:30 pm.

Respectfully submitted,

A handwritten signature in cursive script that reads "Donald R. Bell". The signature is written in black ink and is positioned above the printed name.

Donald R. Bell/Chairman

Appendix



A Program of ASTM International

Test Monitoring Center

<https://www.astmtmc.org>

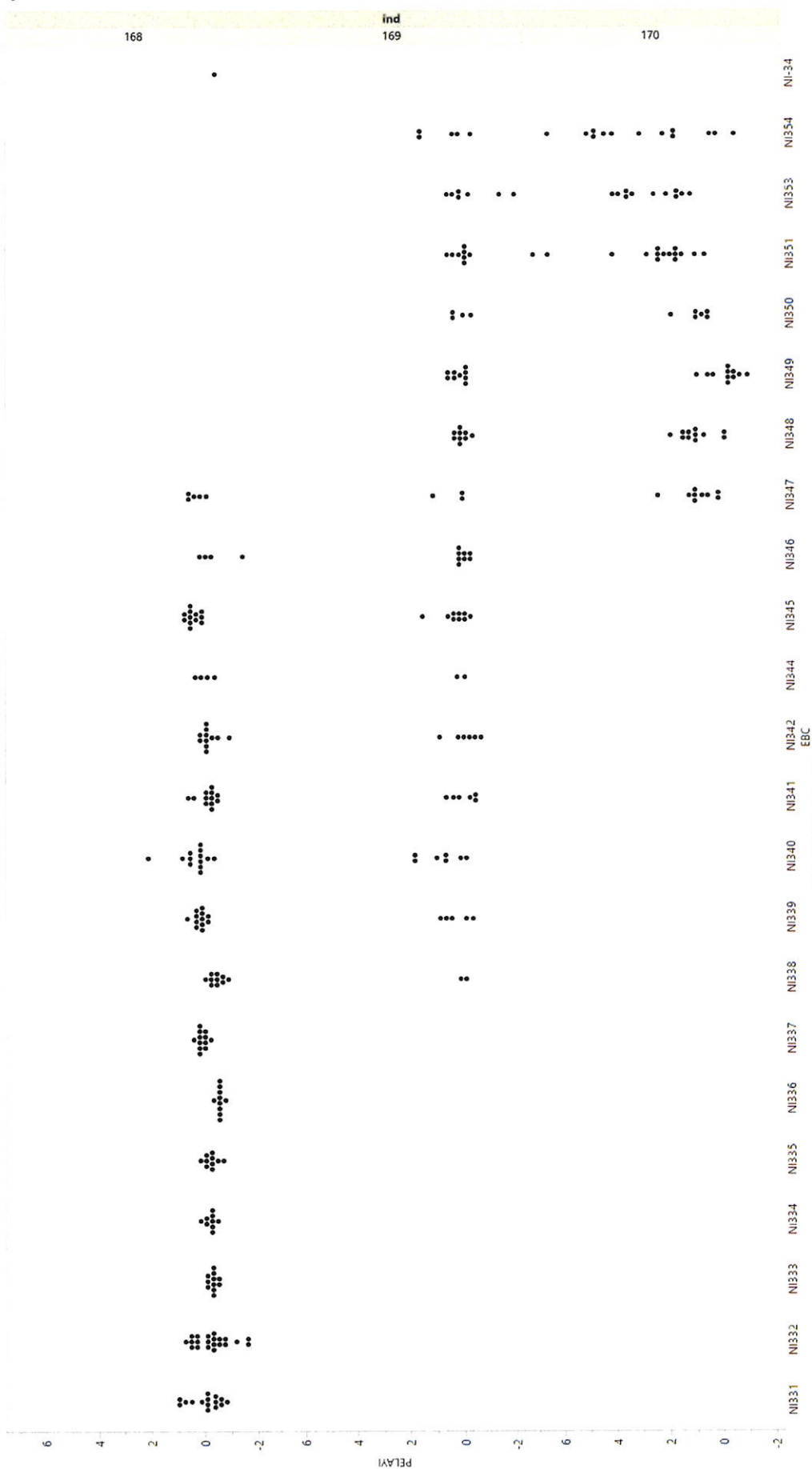
OSCT Surveillance Panel Meeting NI Elastomer Update

May 2025 Update

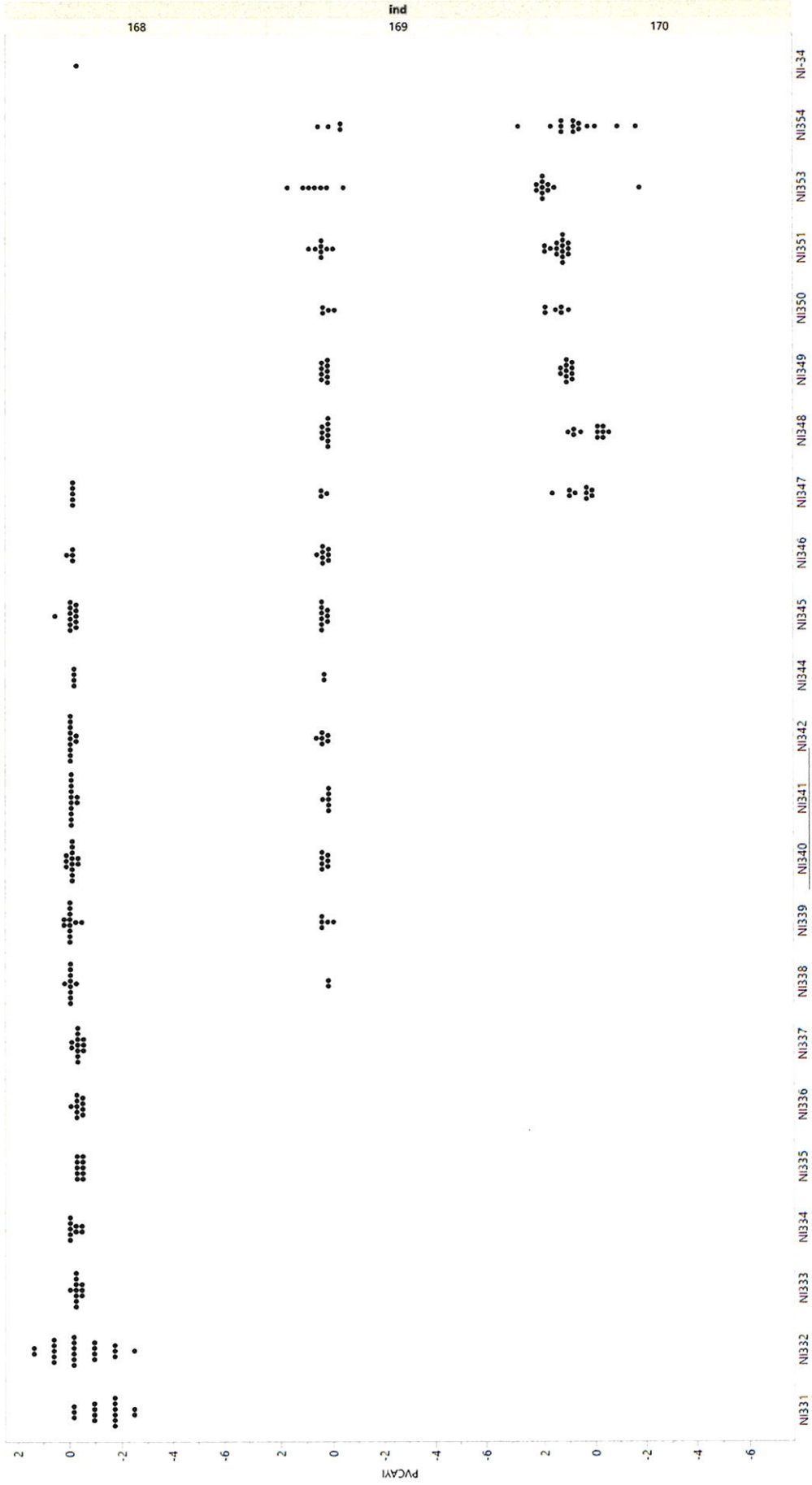
Reference oil 170 and NI Testing

PELAYI vs. EBC

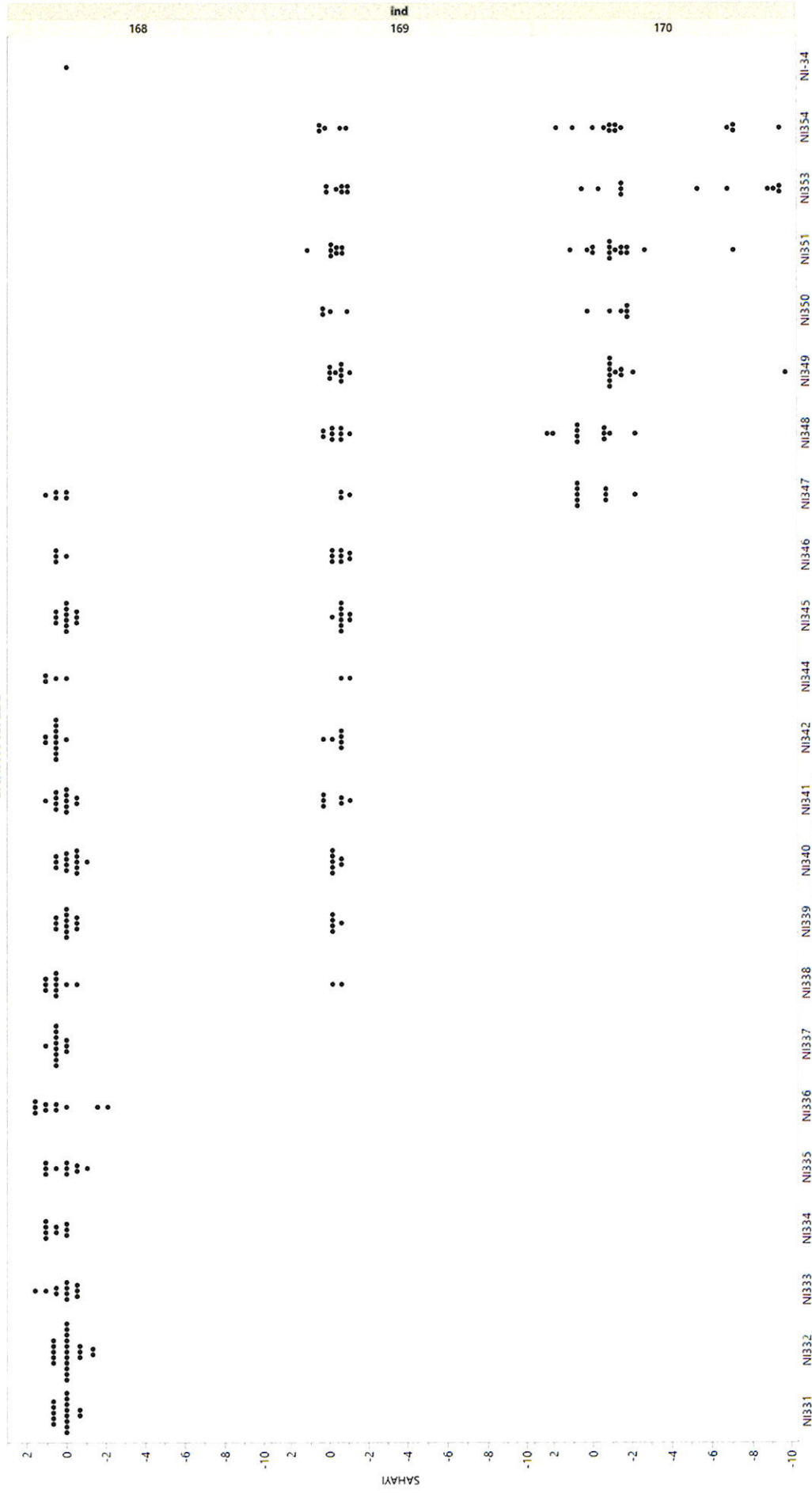
• PELAYI



PVCAYI vs. EBC



• PVCAYI



Oil Seal Compatibility Surveillance Panel

Date:

7/8/2025

V = Voting

NV = Non-voting

Initials	V = Voting NV = Non-voting	Name	Company & Address	e-Mail	Phone #
	V	Nick Ariemma	Lubrizol, 29400 Lakeland Blvd. Wickliffe, OH 44092	nick.ariemma@lubrizol.com	
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
	NV	Tobias Bender	Fuchs Lubricants	tobias.bender@fuchs.com	708-737-1681
	NV	Maxim Burgman	Fuchs Lubricants	maxim.burgman@fuchs.com	248-846-3120
	NV	Bob Campbell	Afton Chemical, 500 Spring St. Richmond, VA 23219	bob.campbell@aftonchemical.com	804-788-5340
	NV	Hailey Catania	Cummins, 2135 W. Maple Rd. Troy, MI 48084	hailey.catania@cummins.com	248-435-1544
	NV	Margaret Caridi	BASF, 500 White Plains Rd. Tarrytown, NY 10591	margaret.caridi@basf.com	845-216-5535
	V	Jessica Carowick	Cummins, 2135 W. Maple Rd. Troy, MI 48084	jessica.carowick@cummins.com	248-872-3055
	NV	Michael Charron	SWRI, W. Commerce, San Antonio, TX 78227	michael.charron@swri.org	
	NV	Jeff Clarke	TMC, 203 Armstrong Dr. Freeport, PA	jac@astmtmc.org	412-365-1032
	V	Allen Comfort	US Army FCDD-GVS-ES, Bldg. 210, 6501 E. 11 Mile Rd., Detroit Arsenal, MI, 48397-5000	allen.s.comfort.civ@army.mil	571-588-6551
	NV	Hector DeLa Fuente	ChevronOronite	HDELAFUENTE@chevron.com	210-867-8612
TC	NV	Trevor Gibson	Dana	trevor.gibson@dana.com	419-386-9783
	NV	Jason Gingerich	Lubrizol	JAGC@lubrizol.com	440-391-0101
	NV	Arjun Goyal	BASF, 500 White Plains Rd. Tarrytown, NY 10591	arjun.goyal@basf.com	914-330-4362

	V	Becky Grinfield	SWRI, W. Commerce, San Antonio, TX 78227	becky.grinfield@swri.org	
KG	NV	Kimberly Guttierrez	Intertek, 5404 Bandera Rd., San Antonio, TX 78238	kimberly.guttierrez@intertek.com	
HH	NV	Hyeok Hahn	Chevron	hyeok.hahn@chevron.com	408-507-2848
	NV	Dan Horvath	Afton Chemical, 2000 Town Center Southfield, MI 48075	dan.horvath@aftonchemical.com	248-226-3708
	NV	John Huron	Chevron Oronite, 4502 Centerview, Suite 210, San Antonio, TX 78228	john.huron@chevron.com	210-731-5609
	NV	Alexander Jackson	Oronite	alexmjackson@chevron.com	830-865-6771
SI	V	Steve Jetter	ExxonMobil	steven.m.jeter@exxonmobil.com	848-214-3869
	NV	Brad Jordan	Shell	brad.jordan@shell.com	804-516-1238
	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	cknight@tei-net.com	210-690-1958
	NV	Dan Lanctot	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	dlanctot@tei-net.com	
	NV	Anthony Lange	Intertek, 5404 Bandera Rd., San Antonio, TX 78238	anthony.lange@intertek.com	210-634-1103
	V	Jeanelle Morris	International Motors LLC, 2701 Navistar Dr., Lisle, IL 60532	jeanelle.morris@navistar.com	331-332-1661
DM	V	Donna Mosher	BASF, 100 Park Ave., Florham Park, NJ	donna.mosher@basf.com	269-217-1715
	V	Troy Muransky	AAM, 1840 Holbrook Detroit, MI 48212	troy.muransky@aam.com	313-758-2444
	NV	Micheal Portell	Intertek, 5404 Bandera Rd., San Antonio, TX 78238	micheal.portell@intertek.com	210-896-8012
	NV	Matt Sangpeal	Afton Chemical, Ashland Technical Center, 11289 Central Drive Ashland, VA 23005	matt.sangpeal@aftonchemical.com	804-788-5364
	NV	Nick Schaup	Lubrizol, 29400 Lakeland Blvd. Wickliffe, OH 44092	nick.schaup@lubrizol.com	616-710-2546
AS	NV	Addison Schweitzer	Shell	addison.schweitzer@shell.com	
	NV	Andrew Smith	Infineum	andrew.smith@infineum.com	

	NV	Rachel Stone	Intertek	rachel.stone@intertek.com	
	NV	Dairene Uy	Shell	dairene.uy@shell.com	281-544-6781
WV	NV	C. Vander Wal	Daimler Truck NA	camden.vander.wal@daimlertruck.com	313-805-1665
	NV	Wes Venhoff	TMC, 203 Armstrong Dr., Freeport, PA	wvnv@astmtmc.org	412-365-1034
	V	Rebecca Warden	Chevron Oroinite, 4502 Centerview, Suite 210, San Antonio, TX 78228	rebecca.warden@chevron.com	830-865-6771
	V	Mia Will	Intertek, 5404 Bandera Rd., San Antonio, TX 78238	mia.will@intertek.com	
PW	NV	Payton Wright	SWRI, W. Commerce, San Antonio, TX 78227	payton.wright@swri.org	210-522-2895
	NV	Fatih Yucebilgic	Fuchs Lubricants	fatih.yucebilgic@fuchs.com	708-539-0252
	NV	George Zarins	AAM	george.zarins@aam.com	586-854-8810
	NV	Khaled Zreik	GM	khaled.zreik@gm.com	248-977-9214
	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		