

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

SAE/PRI Warrendale, PA and Teleconference

2/12/2014

D. Bell

Attendees:

B. McGlone (Meritor) W. Grubbs (PRI) D. Bell (Afton) A. Comfort (Army)
B. Dwornik (Army) T. Gottwald (Afton) J. Chalkley (Afton) D. Mosher (Eaton)
S. Parke (TMC) K. Zriek (GM) J. Clark (TMC) C. Prengaman (Lz)
M. Umerley (Lz) J. Gropp (Lz) B. Koehler (SWRI) R. Warden (SWRI)
J. Dharte (AAM) J. Zakarian (CVX) B. Bubonic (Lz) D. Smith (Intertek)
A. Trader (Intertek) B. Grinfield (SWRI, phone) C. Knight (TEI, phone)




The OSCT Surveillance Panel meeting was called to order at 1:01 pm on 2/12/2014.





The OSCT Surveillance Panel voting membership was reviewed and deemed acceptable.

The following motion made by J. Gropp and 2nd by B. Grinfield was passed unanimously (8 approved): Approve the November 8, 2013 OSCT Surveillance Panel meeting minutes posted on the TMC website.

There are multiple baths available at both Lz and SWRI with no known related problems or severity issues as agreed upon by both labs.

The elastomer inventory listed below for 2/4/2014 at Test Engineering Institute (TEI) was reviewed, which showed that there is sufficient inventory of all three elastomers available for purchase for ASTM D5662 testing.

 PA346 TEI has 0 slabs
 PA347 TEI has 191 approved slabs
 PA348 TEI has 46 approved slabs

 FL388 TEI has 0 slabs
 FL389 TEI has 91 approved slabs
 FL390 TEI has 107 approved slabs
 FL391 TEI has 180 unapproved slabs
--Qualification data reviewed, see end of report

- 📄 NI340 0 slabs
- 📄 NI341 TEI has 220 approved slabs

In 2009, Lz upgraded to the Instron calibration method referred to as the “Bluehill” version that took about 1.5 months for a cost of ~\$33,000. Instron warned that previous versions would be obsolete and not supported. TMC issued an OSCT information letter 09-1 on 9/4/2009 to include the Bluehill method in D5662 Annex to allow Bluehill calibration method to be used with the manual calibration procedure since both methods yield equivalent results. The following motion made by B. Grinfield and 2nd by J. Gropp was approved unanimously (8 approved): TMC to issue an information letter to revise ASTM D5662 section 6.1.2 to note that calibration of the tension testing machine must be done in accordance with the manufacturer and thus delete Annex A2.

The Lz and SWRI qualification data compiled by the Test Monitoring Center (TMC) for FL391 in TMC 160-1 and 169 reference oils was reviewed by the Panel. One of the initial data points from Lab C for percent elongation in reference oil TMC 160-1 was high outside of the severity limits, so Lab C repeated the qualification testing and the value fell within the acceptable limits and close to the Lab B value. All other data for percent elongation, percent volume change and shore hardness values for FL391 in both reference oils TMC 160-1 and 169 were within the acceptance bands. The following motion made by B. Grinfield and 2nd by J. Gropp was passed unanimously (8 approved): Effective immediately, approve FL391 for ASTM D5662 testing.

A motion to adjourn made by D. Smith and 2nd by D. Bell was unanimously (8 approved) approved at 1:24 pm on 2/12/2014.

Respectfully Submitted,

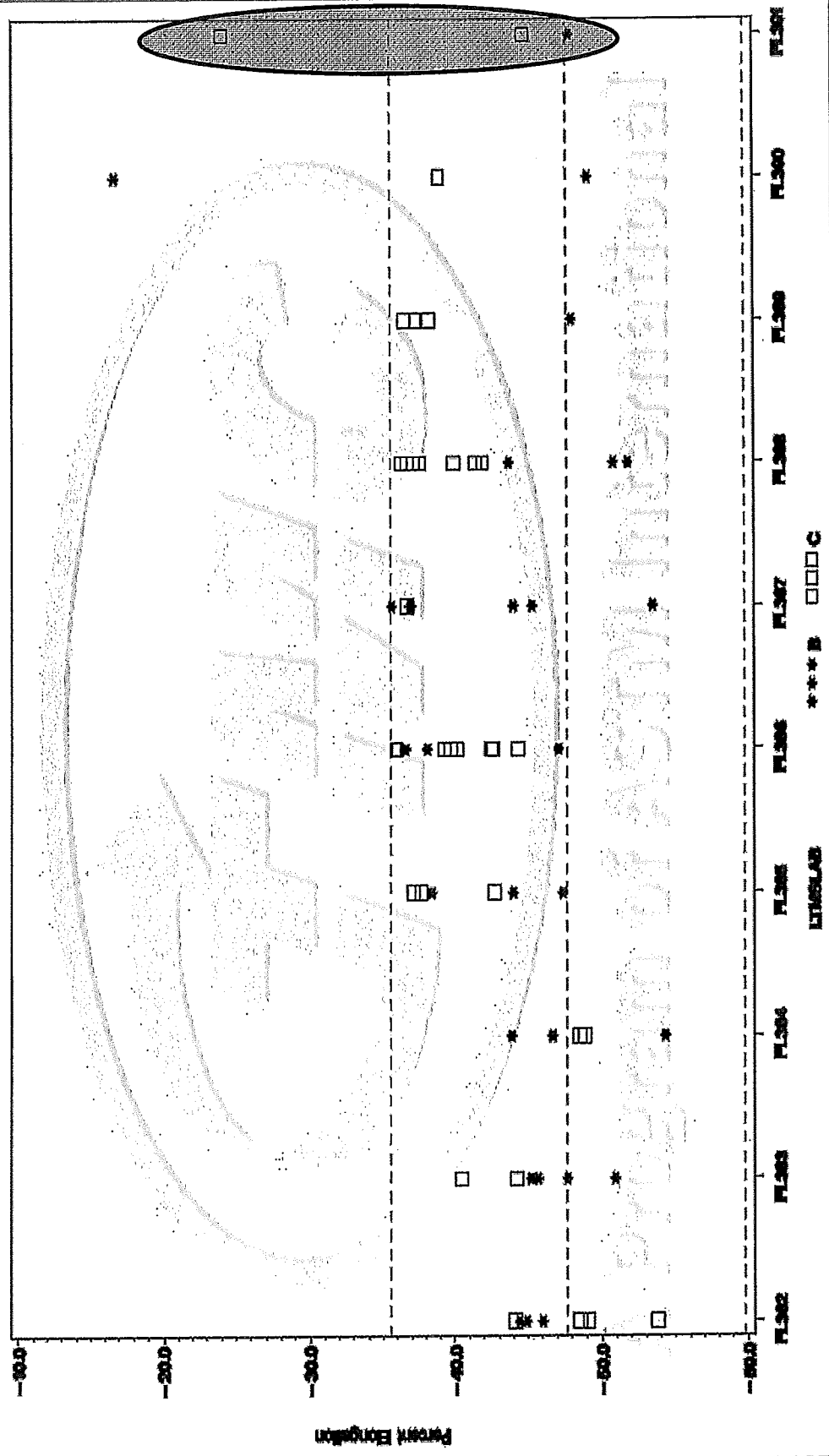
Don Bell



Lesson 1: TMC Repoil Data

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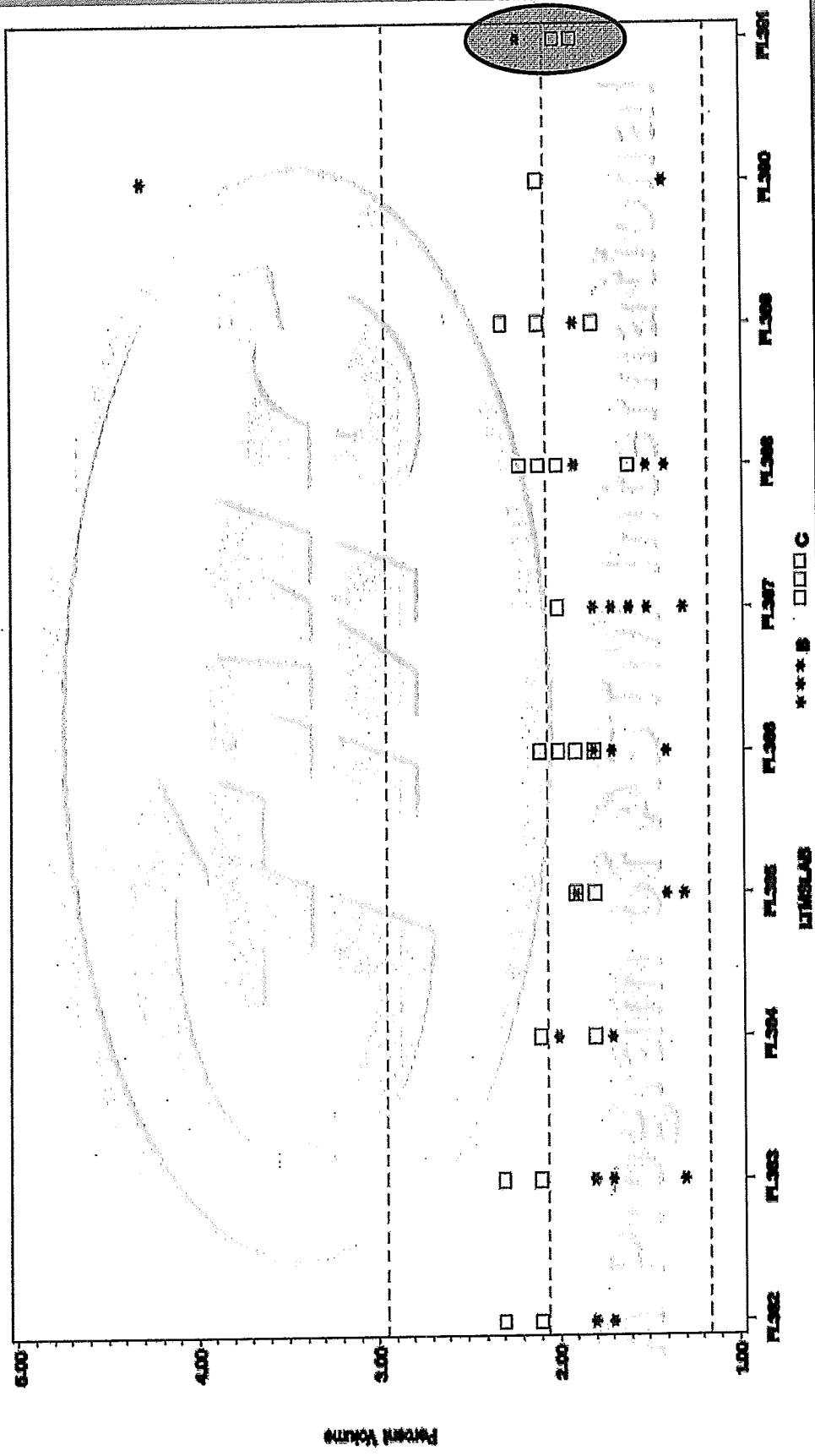
OSCT (FL)
Reference Oil 160-1 (Mean = -47.65)
Percent Elongation Results VS Shewhart Severity Limits



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OSCT SP Meeting

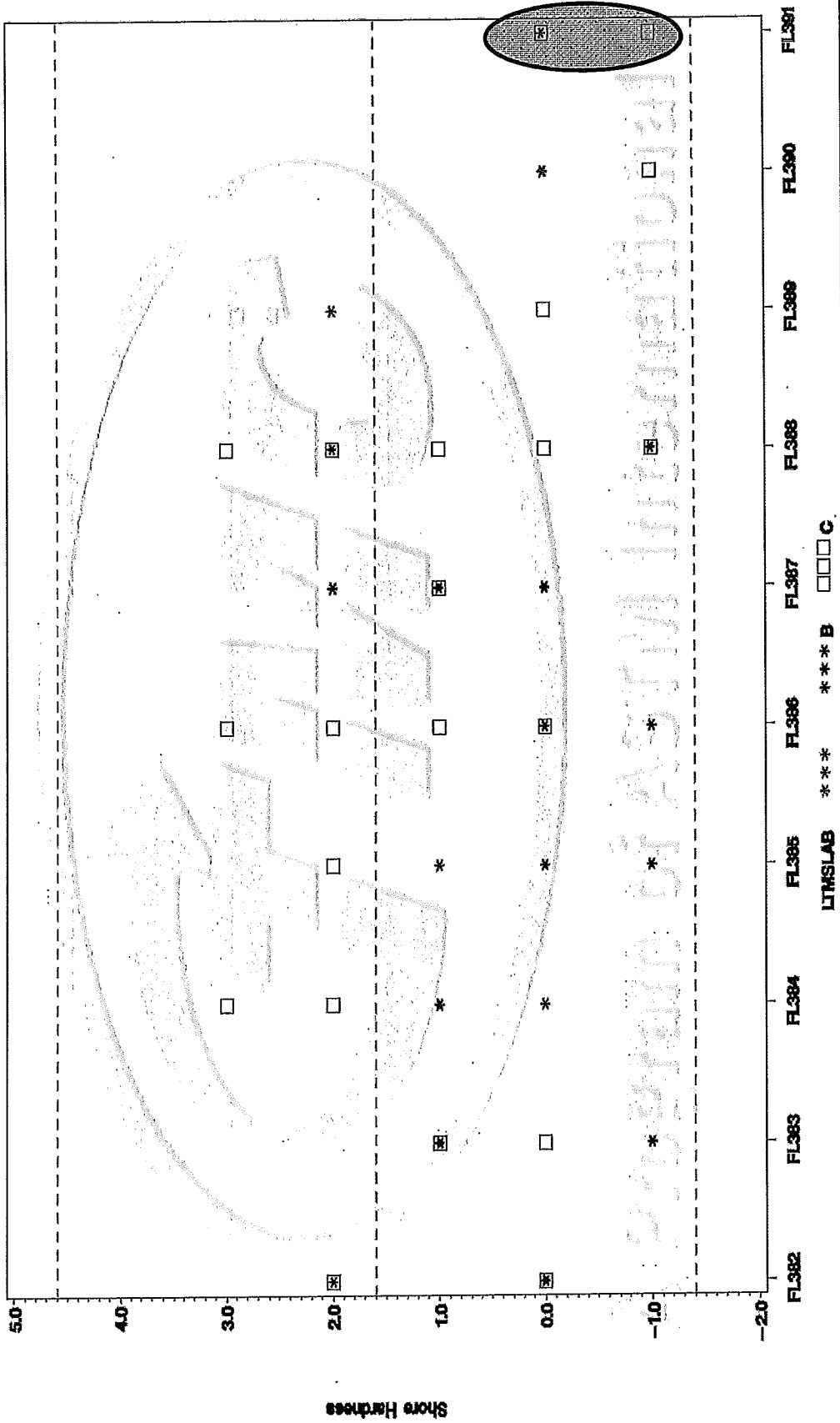
OSCT (FL)
Reference Oil 160-1 (Mean = 2.053)
Percent Volume Results VS Shewart Severity Limits



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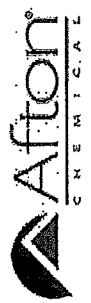
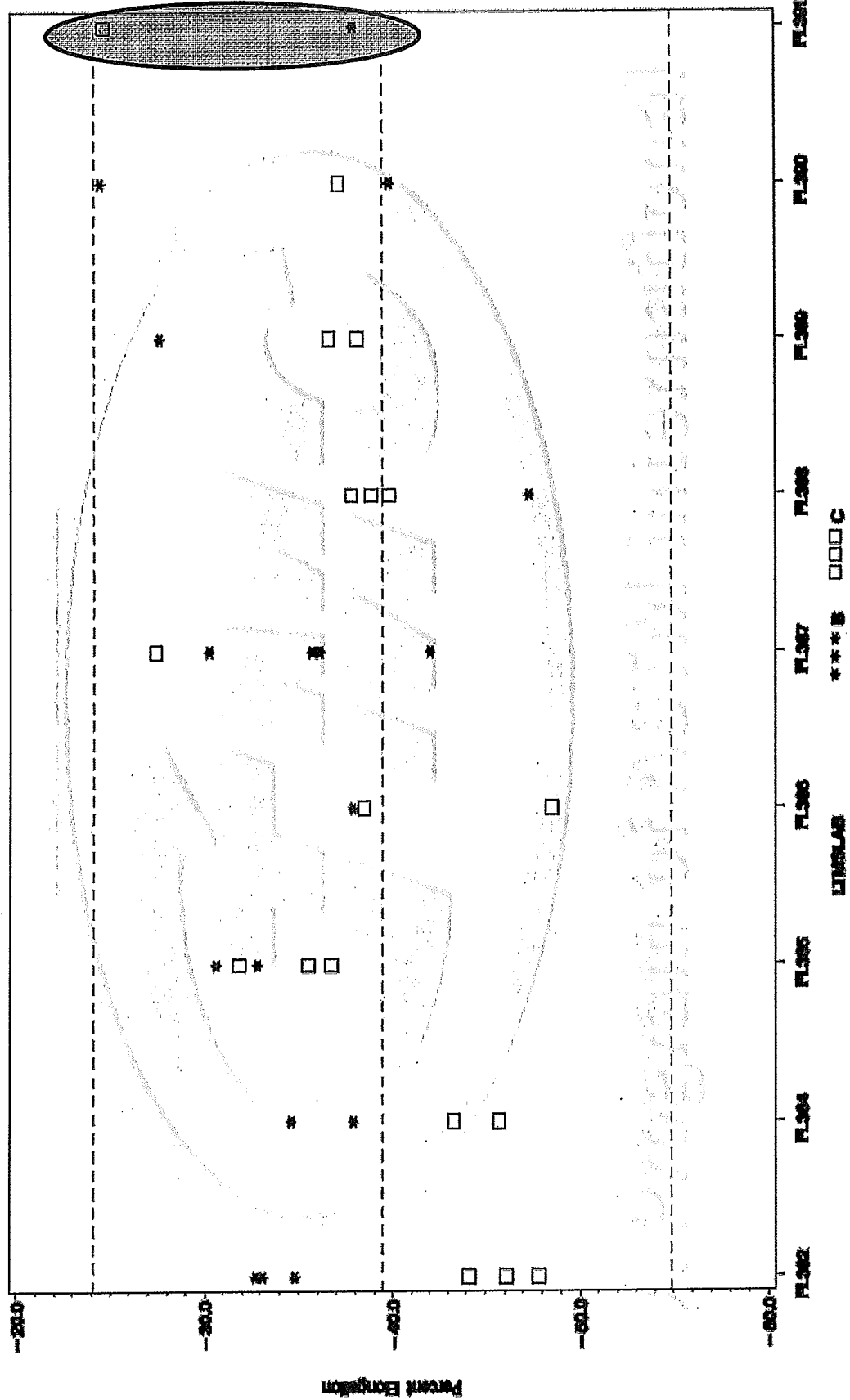
OSCT (FL)
Reference Oil 160-1 (Mean = 1.6)
Shore Hardness Results VS Shewhart Severity Limits



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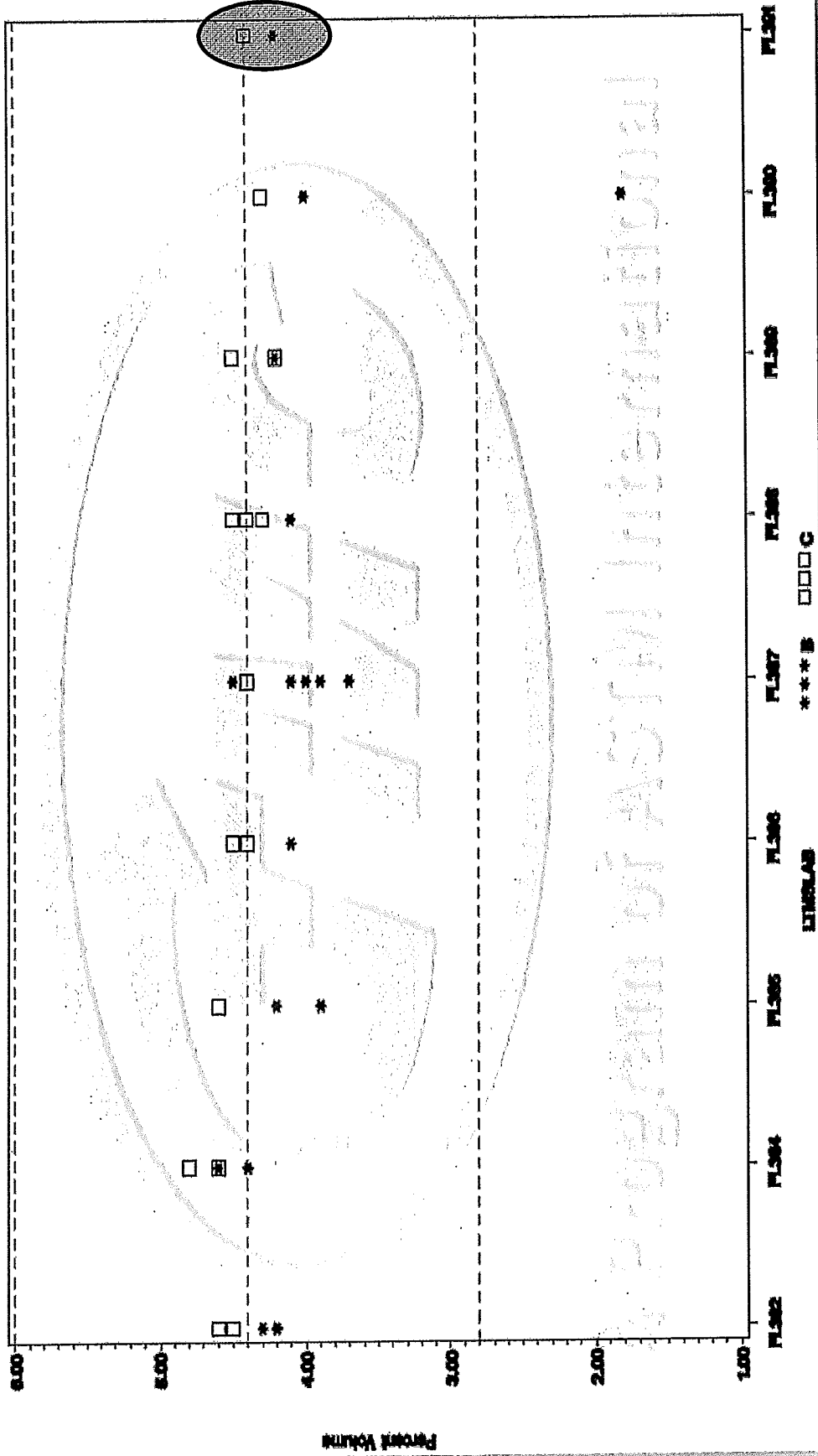
OSCT (FL)
Reference Oil 169 (Mean = -39.5)
Percent Elongation Results VS Shear Severity Limits



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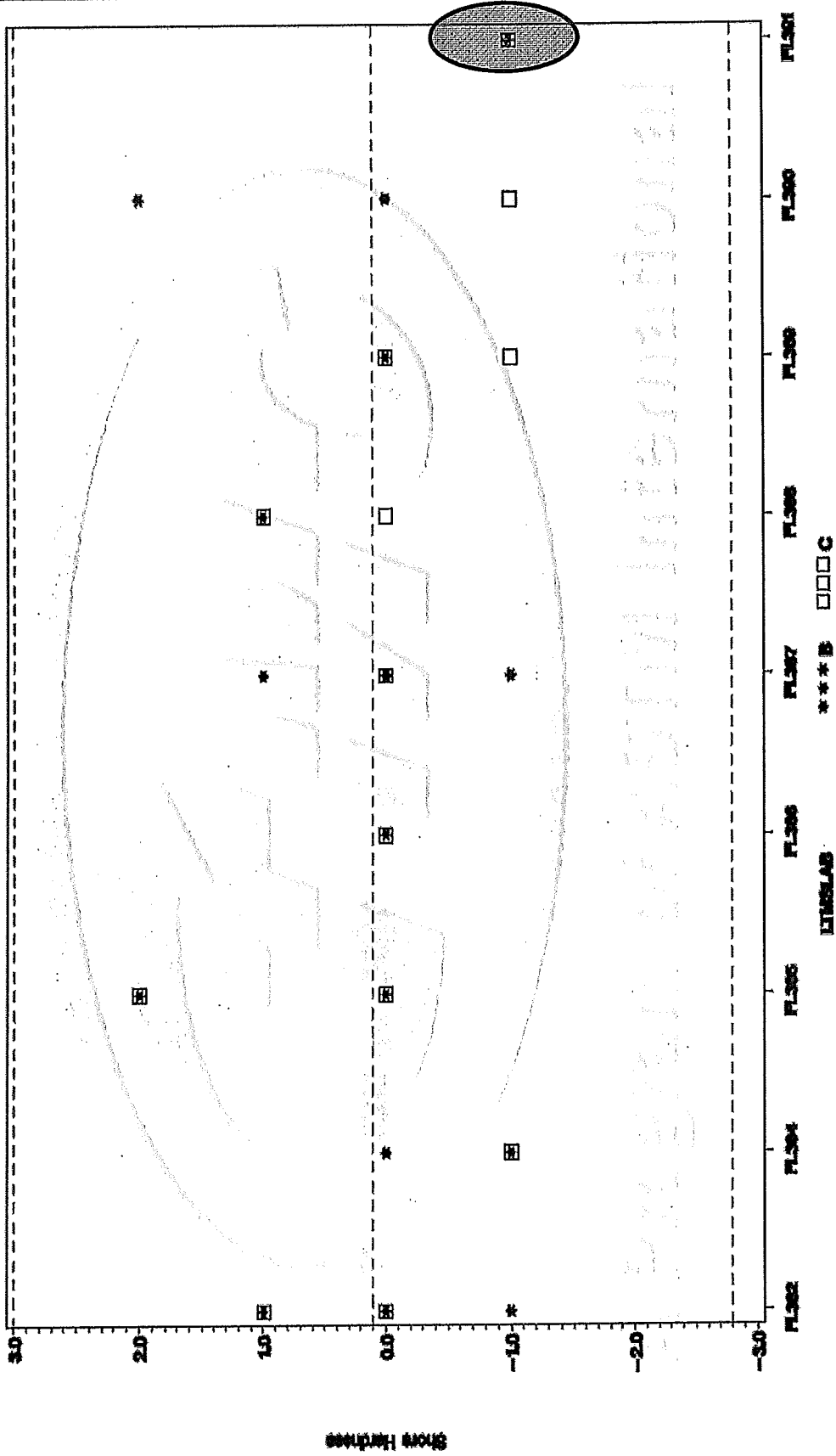
OSCT (FL)
Reference Oil 169 (Mean = 4.4)
Percent Volume Results VS Shearart Severity Limits



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OSCT (FL)
Reference Oil 169 (Mean = 0.1)
Shore Hardness Results VS Shewart Severity Limits



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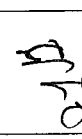
OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: Feb. 12, 2014

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Nancy Aguirre	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 210-647-9428 FAX: e-Mail: Nancy.AGUIRRE@intertek.com
	V	Allison Athey	Volvo Powertrain N.A. 13302 Pennsylvania Ave. Hagerstown, MD 21742-2675	Phone: 301-790-5400 x3109 FAX: 301-790-5815 e-Mail: Allison.athey@volvo.com
	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 FAX: e-Mail: Rob.a.banas@exxonmobil.com
	NV	Tony Barrera	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: FAX: e-Mail: Tony.barrera@intertek.com
<i>DRB</i>	V	Don Bell <i>Chairperson</i>	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-6332 FAX: 804-788-6243 e-Mail: don.bell@aftonchemical.com
	NV	Zack Bishop	TEI	email: zbishop@tei-net.com
	NV	Tom Boschert	Afton Chemical Corp. 500 Spring St. Richmond, VA 23219	Phone: 804-788-5202 FAX: 804-788-6243 e-Mail: Tom.boschert@aftonchemical.com
	NV	Harold Chambers	Linamar Driveline Systems Travelers Tower 1 26555 Evergreen Rd. Ste. 900 Southfield, MI 48076	Phone: 248-358-6038 FAX: 248-355-3558 e-Mail: hchambers@linamar.com
	NV	Angelina Chan	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347- FAX: 440-347- e-Mail: Angelina.Chan@lubrizol.com




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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Jeff Clark	Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1032 FAX: 412-365-1047 e-Mail: jac@astmtmc.cmu.edu
	V	Allen Comfort	US Army TACOM RDTA-DP/MS110 6501 E. 11 Mile Road Warren, MI 48307-5000	Phone: 586-282-4225 FAX: 586-282-4244 e-Mail: Allen.s.comfort@us.army.mil
	V	John Dharte	American Axle 1 Dauch Drive Detroit, MI 48211	Phone: 313-758-4687 FAX: 313-758-4237 e-Mail: dhartej@aam.com
	NV	Bridget Dwornick	US Army RDECOM/TARDEC RDTA-DP/210 MS 110 6501 E 11 Mile Road Warren, MI 48397-5000	Phone: 586-282-4221 FAX: 586-282-4244 e-Mail: Bridget.dwornick@us.army.mil
	NV	Monika Duda	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: _____ FAX: _____ e-Mail: Monika.duda@lubrizol.com
	NV	Thomas Gottwald	Afton Chemical Corp. 500 Spring St. Richmond, VA 23219	Phone: 804-788-5230 FAX: _____ e-Mail: Thomas.gottwald@aftonchemical.com
	V	Rebecca Grinfield	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-3652 FAX: 210-522-5907 e-Mail: bgrinfield@swri.org
	V	Jerry Gropp	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-1223 FAX: 440-347-5337 e-Mail: jlg@lubrizol.com
	NV	Larry Hamilton	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-2326 FAX: _____ e-Mail: Larry.hamilton@lubrizol.com






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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Percy Kanga	ExxonMobil Research and Engineering 600 Billingsport Rd. Paulsboro, NJ 08066	Phone: 856-224-2094 FAX: 856-224-3613 e-Mail: Percy.r.kanga@exxonmobil.com
	NV	Bill Kearney	Afton Chemical Corp Southfield, MI	Phone: 248-350-0640 FAX: e-Mail: Bill.kearney@aftonchemical.com
	NV	Marc Keisler	Afton Chemical Corp. 500 Spring Street Richmond, VA 23219	Phone: 804-788-5617 FAX: e-Mail: Marc.keisler@aftonchemical.com
	V	Clayton Knight	Test Engineering Institute 12718 Cimarron Path San Antonio, TX 78249	Phone: 210-690-1958 FAX: 210-877-0228 e-Mail: cknight@tei-net.com
	NV	Brian Koehler	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-3588 FAX: 210-684-7523 e-Mail: bkoehler@swri.org
	V	Thelma Marougy	Eaton Corporation 26201 Northwestern Highway Southfield, MI 48037	Phone: 248-226-6985 FAX: 248-226-1739 e-Mail: thelmaemarougy@eaton.com
	V	Bruce McGlone	Meritor 2135 West Maple Troy, MI 48084	Phone: 248-435-9929 FAX: 248-435-6602 e-Mail: Bruce.McGlone@meritor.com
	NV	Donna Mosher	Eaton Corporation 13100 E. Michigan Avenue Galesburg, MI 49053	Phone: 269-342-3039 FAX: 269-746-6039 e-Mail: donnammosher@eaton.com
	NV	Ronny Mumaw	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-8017 FAX: e-Mail: Ronny.mumaw@lubrizol.com

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Troy Muransky	Meritor 2135 West Maple Rd. Troy, MI 48084	Phone: 248-435-1409 FAX: 248-435-6602 e-Mail: Troy.muransky@meritor.com
	V	Scott Parke	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206	Phone: 412-365-1033 FAX: 412-365-1047 e-Mail: sdp@astmtmc.cmu.edu
	NV	Chris Prengaman	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-4225 FAX: e-Mail: crpr@lubrizol.com
	V	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 412-855-6854 FAX: e-Mail: Dale.smith@intertek.com
	NV	Ryan Thorpe	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-6409 FAX: e-Mail: Ryan.thorpe@swri.org
	NV	Angela Trader	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 210-706-1533 FAX: e-Mail: Angela.trader@intertek.com
	NV	Matt Umerley	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-4589 FAX: e-Mail: Matthew.umerley@lubrizol.com
	NV	Chintan Ved	Ford 35500 Plymouth Road Livonia, MI 48150	Phone: 313-805-9495 FAX: e-Mail: cved@ford.com
	NV	Jack Zakarian	Chevron 100 Chevron Way Richmond, CA 94802	Phone: FAX: e-Mail:

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
KZ	NV	Khaled Zreik	General Motors	Phone: 248-977-9214 FAX: e-Mail: Khaled.zreik@gm.com

DN Rebecca Worden Southwest Research Institute 210-522-6266

Rebecca Worden@swri.org

BRAD BUONICCONTI Lubrizol

446 - ~~726~~ 347 - 5325

JIM O'NEILL AFTON