

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

Automation Alley in Troy, MI

2/6/2013

D. Bell

Participants:

B. Grinfield (SWRI, phone) J. Gropp (Lz) M. Duda (Lz, phone) R. Banas (XOM)
D. Bell (Afton) C. Knight (TEI) A. Comfort (Army) B. Dwornik (Army)
J. D'harte (AAM) T. Gottwald (Afton) L. Hamilton (Lz) B. Kearney (Afton)
B. Koehler (SWRI) T. Marougy (Eaton) D. Mosher (Eaton) B. McGlone (Meritor)
T. Muransky (Meritor) S. Parke (TMC) D. Smith (Intertek) A. Trader (Intertek)
C. Pregnaman (Lz) M. Umerely (Lz) J. Zakarian (CVX) T. Barrera (Intertek)
M. Keisler (Afton) C. Koglin (Afton)

The meeting was called to order at 3:06 pm 2/6/2013 and the attached OSCT Surveillance Panel membership was reviewed. The member additions and deletions were made as appropriate.

A motion made by J. Gropp and 2nd by B. Grinfield was unanimously approved (10 votes) to approve the OSCT Panel meeting minutes listed on the TMC website from 8/8/2012, 8/30/2012, and 11/16/2012.

There are multiple baths available at both Lz and SWRI with no related problems or severity issues.

The current (as of 1/28/2013) elastomer inventory at TEI was reviewed. The elastomer qualification data (see Appendix) conducted by Lz and SWRI as compiled by the TMC for the new batch of PA347 was reviewed by the Panel. All data was found to be within the acceptance bands, except for lab B with respect to shore hardness in reference oil 160-1. Since the batch could not be approved due to this failing data point, lab B was instructed to repeat the qualification testing for PA347 in reference oil 160-1 for all 3 parameters and report data to TMC. Once TMC compiles the data, D. Bell will call a teleconference with the OSCT Panel to review the results. TEI ordered a new lot of PA348 on 11/18/2012 and will submit it to both labs for qualification testing upon receipt.

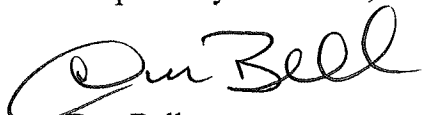
The elastomer qualification data (see Appendix) conducted by Lz and SWRI as compiled by the TMC for the new batch of FL388 was also reviewed by the Panel. The % elongation, volume

change, and shore hardness change for FL388 in both 169 and 160-1 reference oils fell within the Shewhart acceptance bands. A motion passed unanimously (10 approved) that was made by B. Grinfield and 2nd by B. McGlone: Effective immediately approve FL388 for ASTM D5662 candidate testing. TEI is instructed to release FL388 (178 slabs) for sale. Lz ordered 90 slabs thus far. FL389 has been received and will be sent out for qualification testing at both labs shortly. FL390 has also been ordered to keep up with the relatively large volume requests being ordered by Lz.

TEI has 89 slabs of NI340 and placed an order for NI341 on 1/16/2013.

A motion was unanimously approved (10 votes) to adjourn at 3:22 pm on 2/6/2013.

Respectfully Submitted,



Don Bell

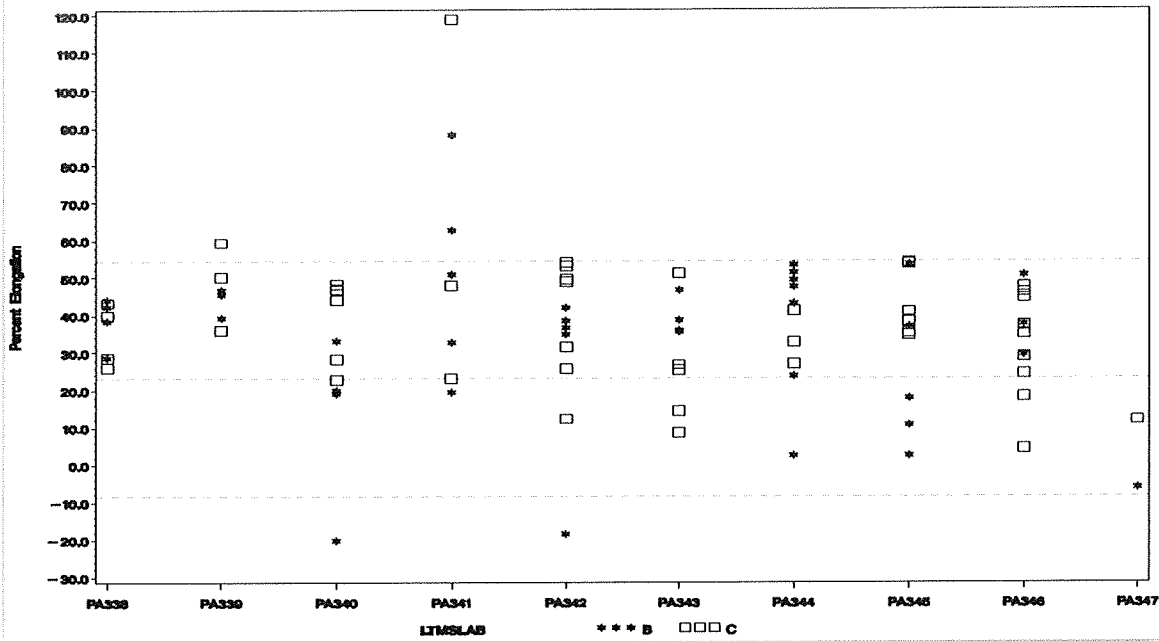
Appendix

OSCT Surveillance Panel Meeting

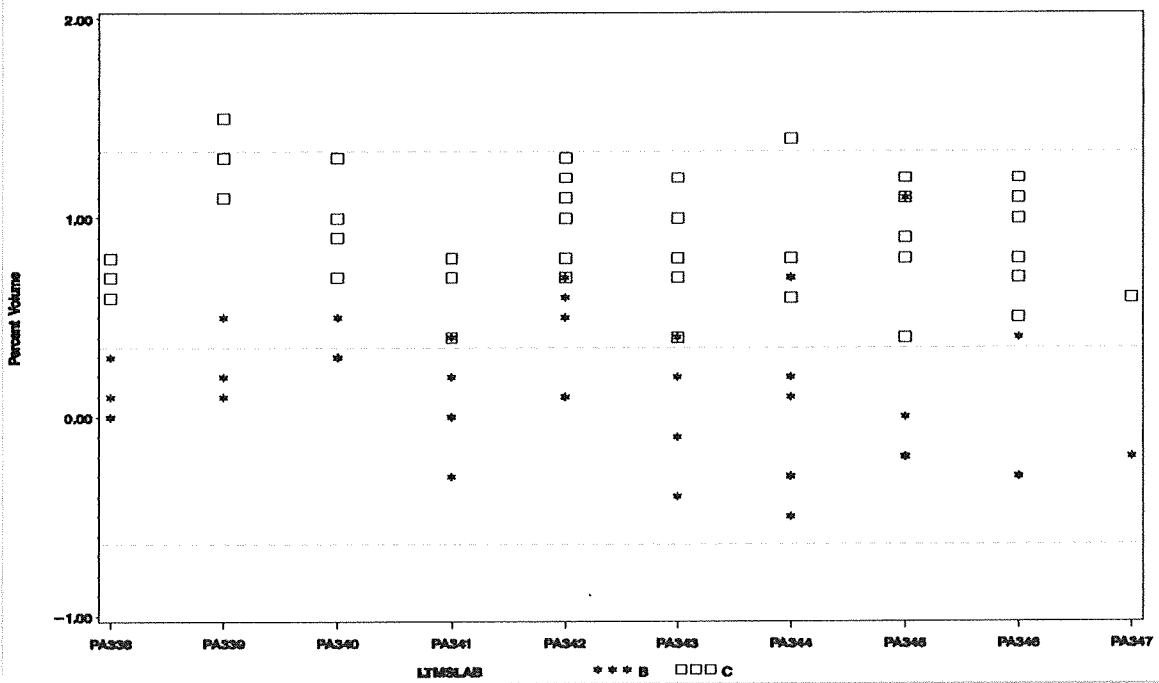
2/6/2013

PA347: TMC Qualification Data

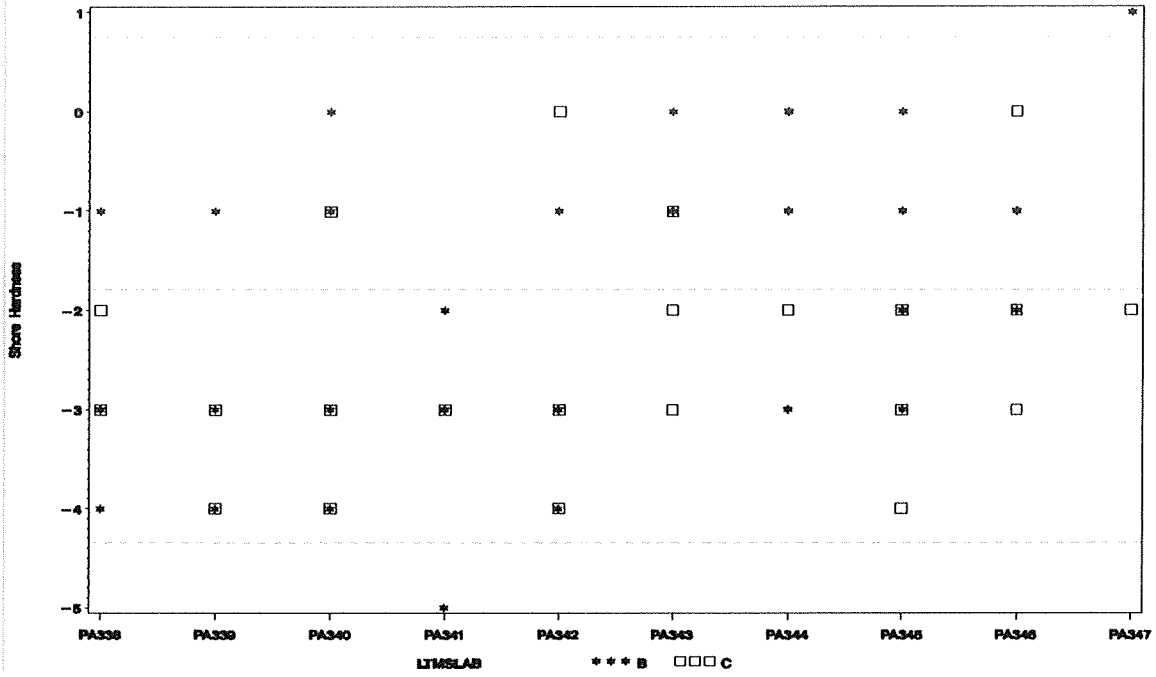
OSCT (PA)
Reference Oil 160-1 (Mean = 23.04)
Percent Elongation Results VS Shewhart Severity Limits



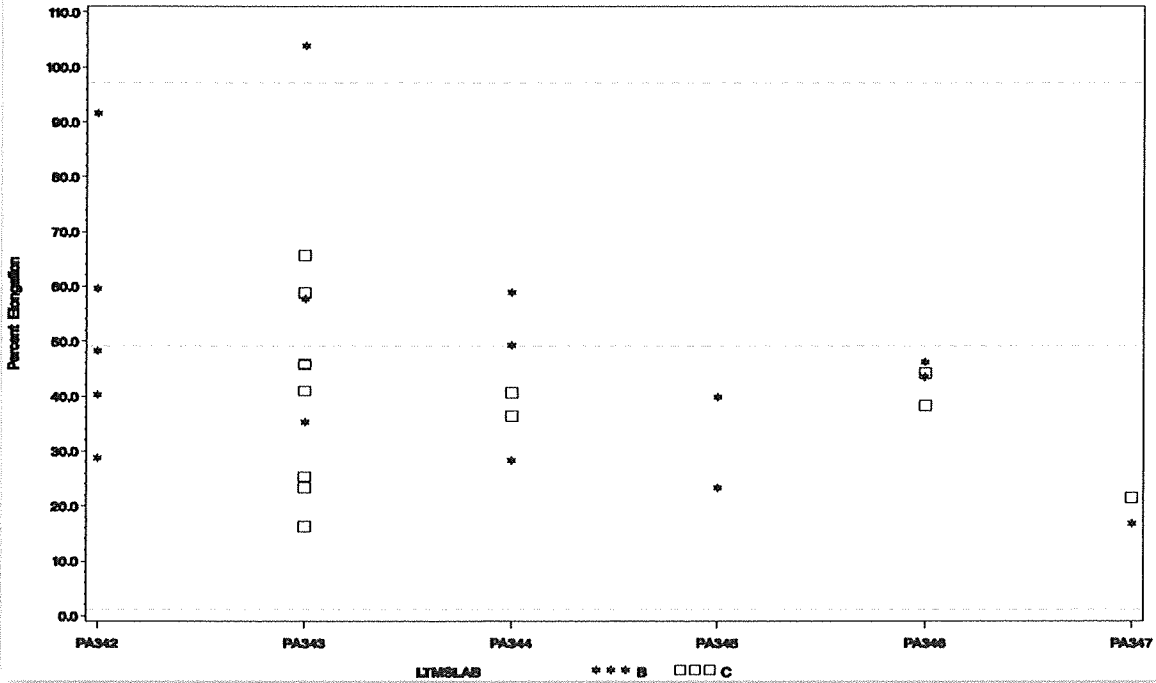
OSCT (PA)
Reference Oil 160-1 (Mean = 0.343)
Percent Volume Results VS Shewhart Severity Limits



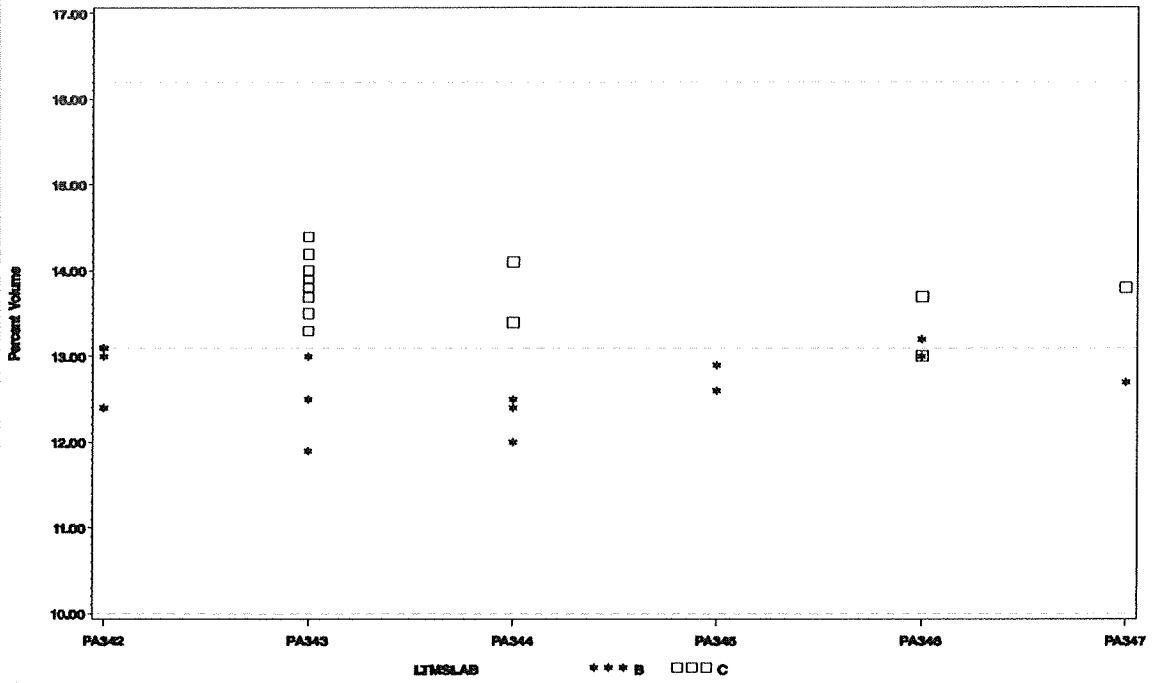
OSCT (PA)
Reference Oil 160-1 (Mean = -1.8)
Shore Hardness Results VS Shewhart Severity Limits



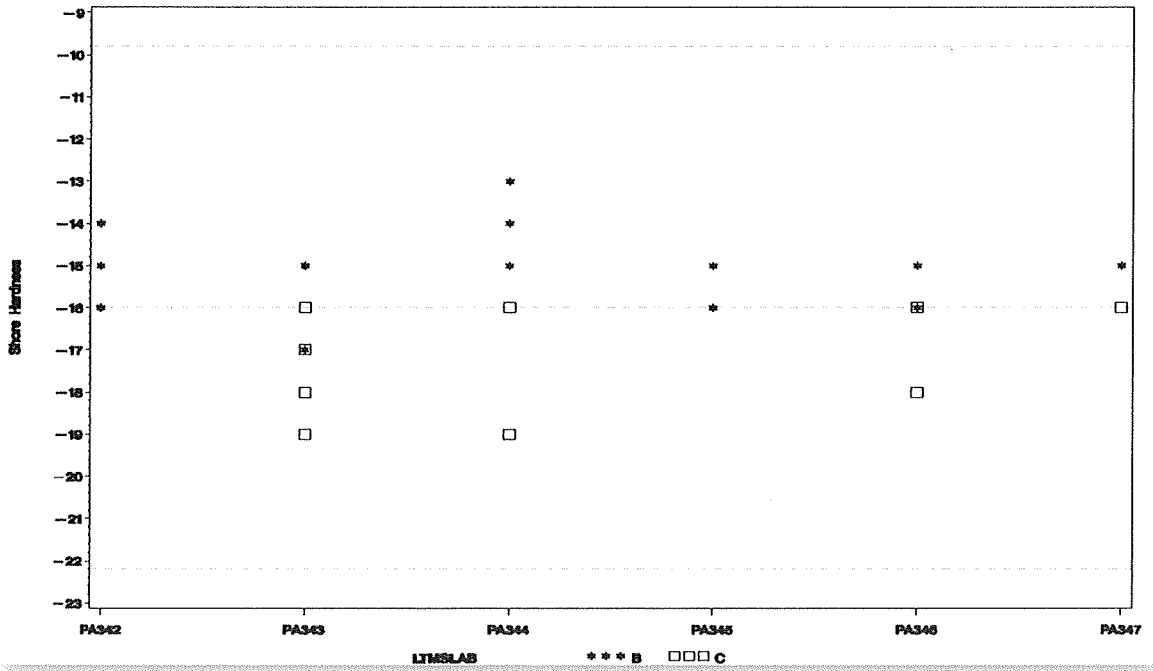
OSCT (PA)
Reference Oil 160 (Mean = 49.2)
Percent Elongation Results VS Shewhart Severity Limits



OSCT (PA)
Reference Oil 169 (Mean = 13.1)
Percent Volume Results VS Shewhart Severity Limits

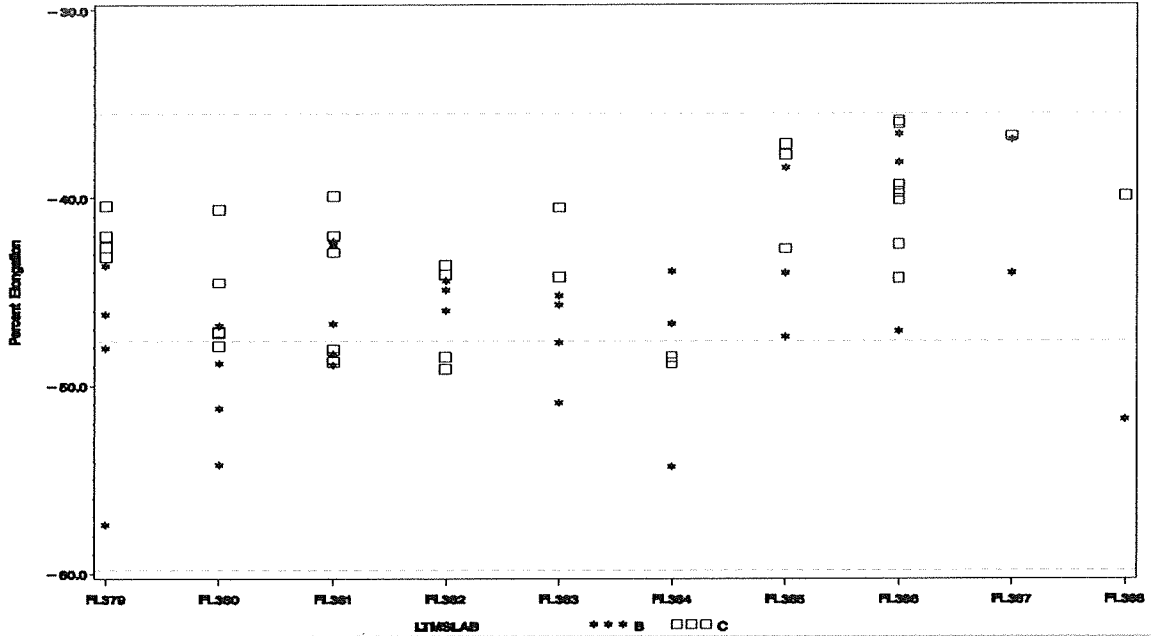


OSCT (PA)
Reference Oil 169 (Mean = -16.0)
Shore Hardness Results VS Shewhart Severity Limits

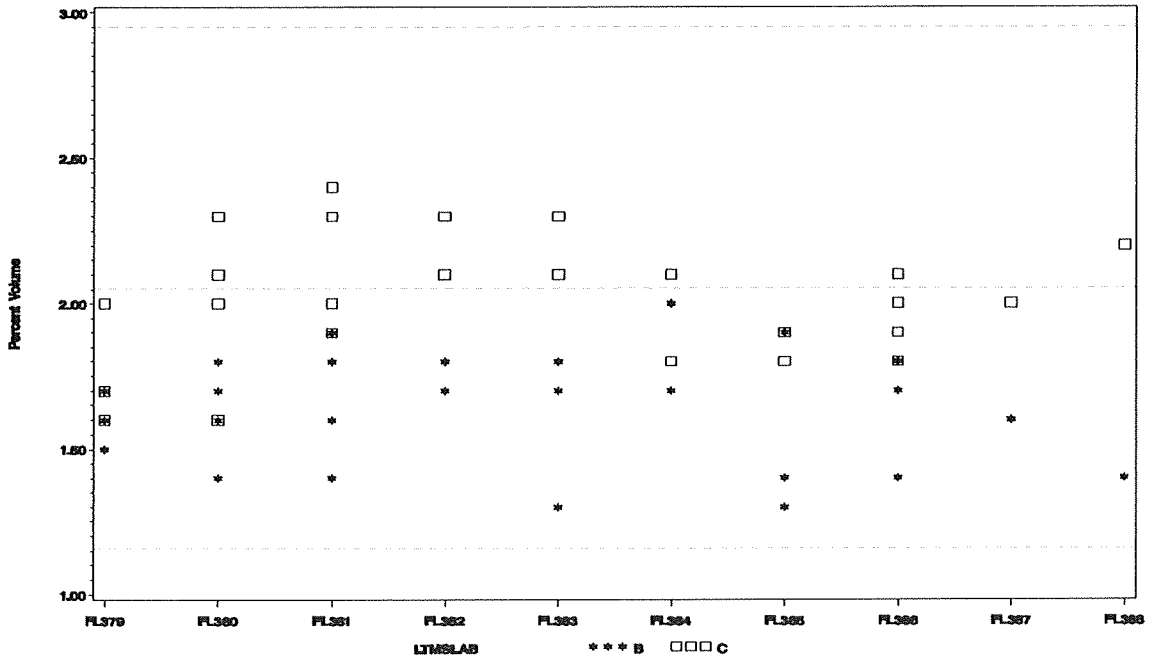


FL-388 Qualification Data

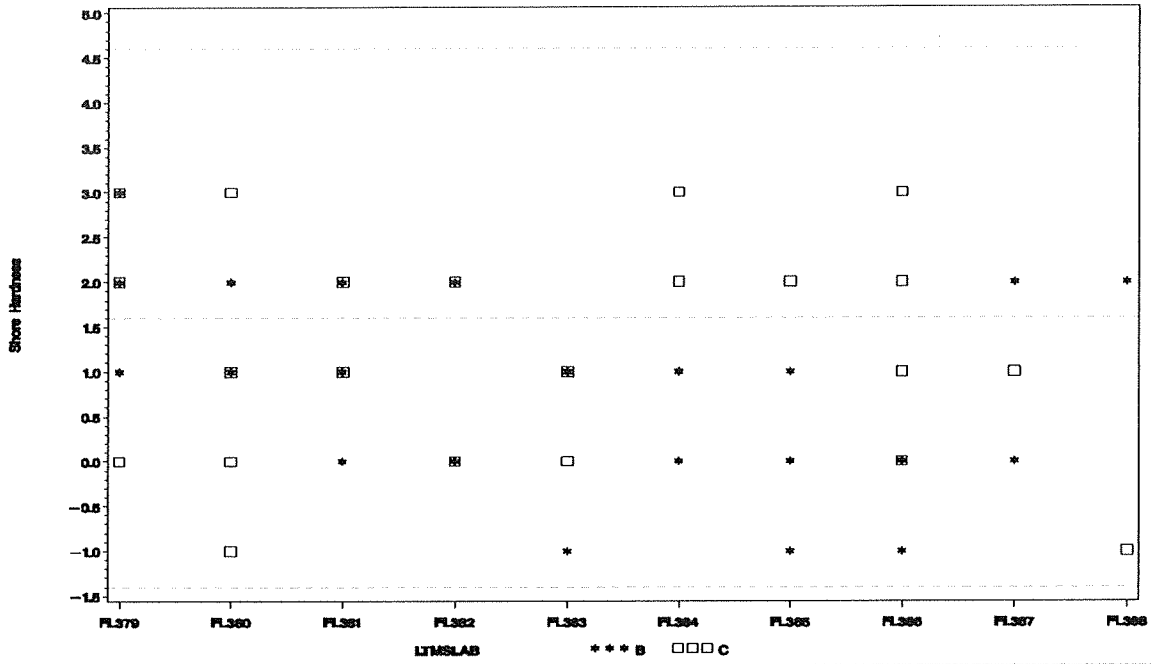
OSCT (FL)
Reference Oil 160-1 (Mean = -47.65)
Percent Elongation Results VS Shewhart Severity Limits



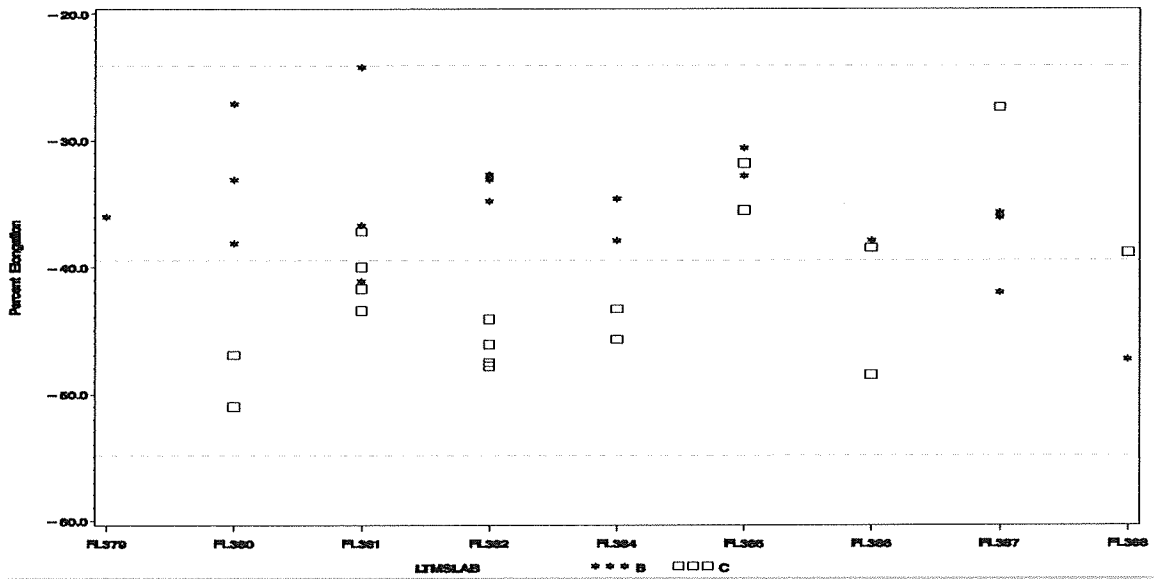
OSCT (FL)
Reference Oil 160-1 (Mean = 2.053)
Percent Volume Results VS Shewhart Severity Limits



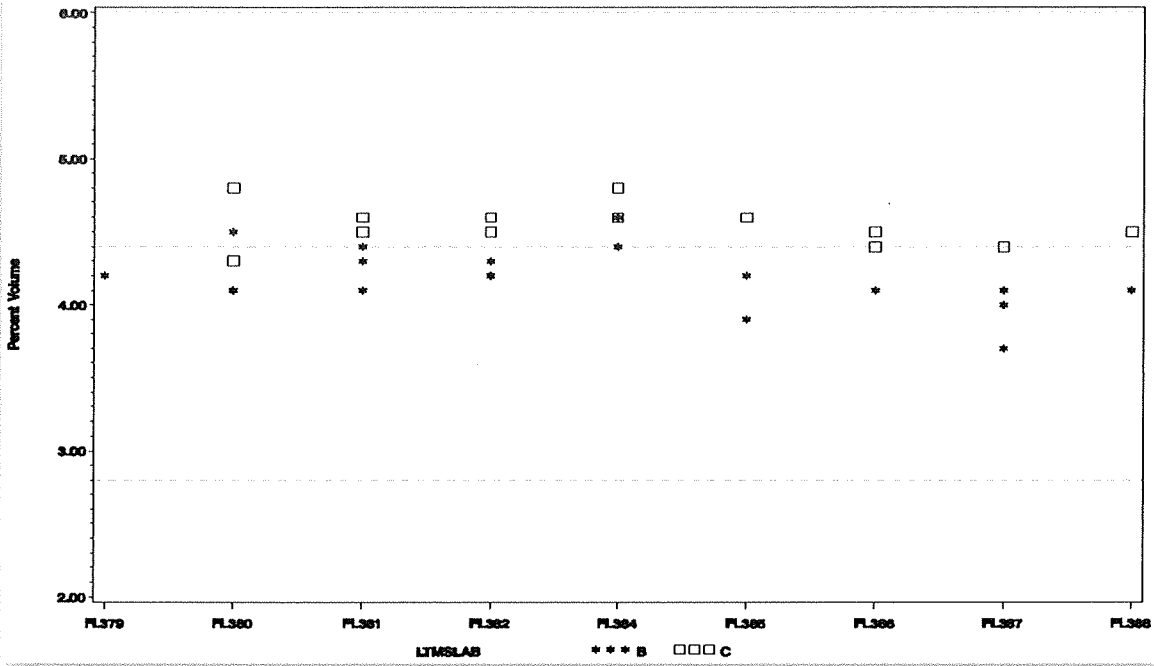
OSCT (FL)
Reference Oil 160-1 (Mean = 1.6)
Shore Hardness Results VS Shewhart Severity Limits



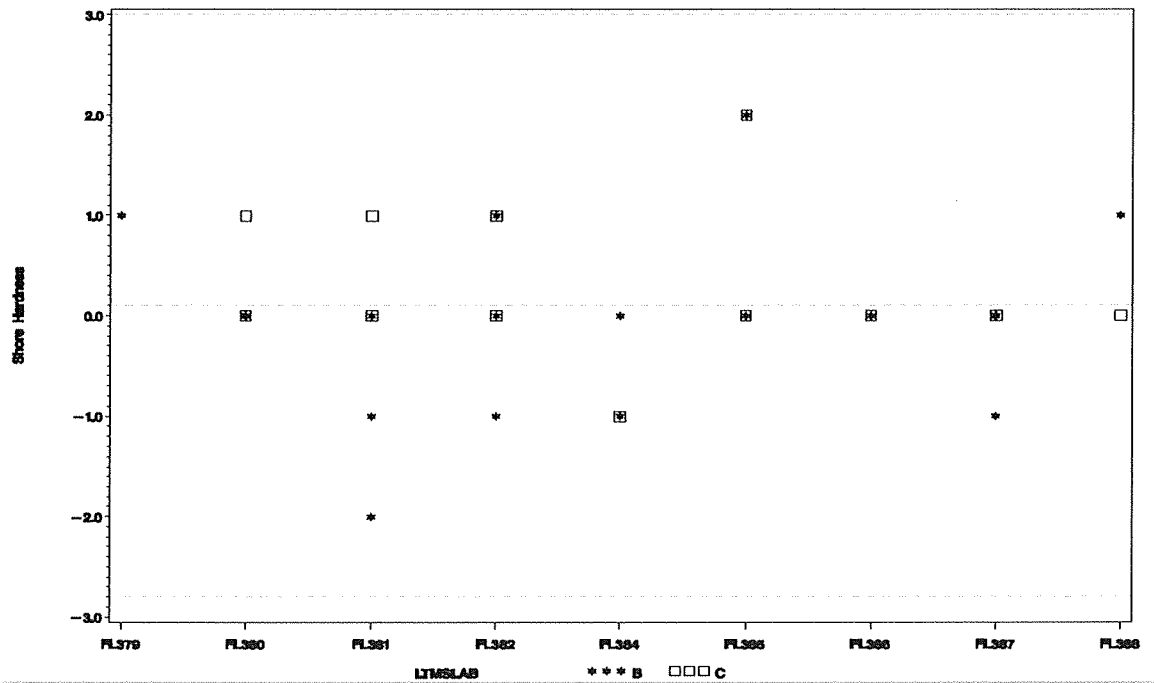
OSCT (FL)
Reference Oil 169 (Mean = -39.5)
Percent Elongation Results VS Shewhart Severity Limits



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



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



OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: Feb 6, 2013


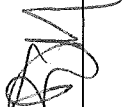




Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Allison Athey	Volvo Powertrain N.A. 13302 Pennsylvania Ave. Hagerstown, MD 21742-2675	Phone: 301-790-5400 x3109 FAX: 301-790-5815 e-Mail: Allison.athey@volvo.com
<i>AB</i>	V	Rob Banas	ExxonMobil Lubricants and Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 FAX: e-Mail: Rob.a.banas@exxonmobil.com
<i>DB</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	Phone: FAX: e-Mail: 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	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
<i>A.C.</i>	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
<i>JD</i>	V	John D'harte	American Axle 1 Dauch Drive Detroit, MI 48211	Phone: 313-758-4687 FAX: 313-758-4237 e-Mail: dhartej@aam.com
<i>BD</i>	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

*M.D. Monica Duda
phone*

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date:

2/16/2013

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	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: donnamosher@eaton.com
	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
	V	Dale Smith	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 412-855-6854 FAX: Dale.smith@intertek.com e-Mail:
	NV	Ryan Thorpe	Southwest Research Institute P.O. Drawer 28510 San Antonio, TX 78228-0510	Phone: 210-522-6409 FAX: Ryan.thorpe@swri.org e-Mail:
	NV	Angela Trader	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238	Phone: 210-706-1533 FAX: Angela.trader@intertek.com e-Mail:
	NV	Matt Umerley	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-4589 FAX: Matthew.umerley@lubrizol.com e-Mail:

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: 2/6/2013

Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
	NV	Chintan Ved	Ford 35500 Plymouth Road Livonia, MI 48150	Phone: 313-805-9495 FAX: e-Mail: cved@ford.com
	NV	Wes Venhoff	Lubrizol 29400 Lakeland Blvd. Wickliffe, OH 44092	Phone: 440-347-4879 FAX: e-Mail: wve@lubrizol.com
	NV	Khaled Zreik	General Motors	Phone: 248-977-9214 FAX: e-Mail: Khaled.zreik@gm.com

CV NV Chris Prengeman Lubrizol
29400 Lakeland Blvd
Wickliffe, OH 44092
440-347-4225
CARP@LUBRIZOL.COM

MU NV Matthew Umerley Lubrizol
440 347 4589
MTUE@LUBRIZOL.COM

JAZ NV JACK ZAKARIAN Chevron

TCB NV Tony BARRERA Intertek
Tony.BARRERA@intertek.com

MSK NV MARC KEISLER AFTON
marc.keisler@afonchemical.com