

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

Troy, MI (Automation Alley)

5/9/2012

D. Bell

Participants:

S. Parke (TMC)	B. Dwornick (Army)	A. Comfort (Army)	S. Eliot (XOM)
B. Grinfield (SWRI, phone)	L. Hamilton (Lz)	S. Higuichi (Afton)	B. Koehler (SWRI)
J. Gropp (Lz)	B. McGlone (Meritor)	T. Muransky (Meritor)	B. Kearney (Afton)
D. Bell (Afton)	C. Knight (TEI)	P. Kanga (XOM)	K. Hobson (Afton)
D. Smith (Intertek)	K. Zreik (GM)	C. Knight (TEI, phone)	T. Boschert (Afton)
T. Gottwald (Afton)	W. Recinos (Afton)	D. Mosher (Eaton, phone)	W. Venhoff (lz)
J. Zakarian (Chevron)	A. Trader (Intertek)	C. O'Brien (GM)	

The attached OSCT Surveillance Panel membership list of 10 voting and numerous non-voting members was reviewed and those non-voting members that have not participated over the last year have been eliminated from the list.

A motion made by B. McGlone and 2nd by B. Grinfield was unanimously approved by 8 voting members to approve the OSCT Surveillance Panel meeting minutes from 2/8/2012 and 4/3/2012 that are posted on the TMC website.

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

The Test Engineering Institute (TEI) has the approximate seal inventory:

- PA 345: 26 slabs
- PA346: 300 slabs, distributed on 4/24/2012 to SWRI and Lz for qualification testing
- FL385: 178 slabs, qualification data reviewed as noted below
- FL386: 200 slabs, distributed on 4/11/2012 to SWRI and Lz for qualification testing
- NI339: 106 slabs
- NI340: 200 slabs, distributed on 4/3/2012 to SWRI and Lz for qualification testing)

SWRI and Lz expect to complete the qualification testing on PA346 and FL386 within the next several weeks, so the chairman will call an OSCT Surveillance Panel teleconference to review the data when available. TEI was instructed to track the NI340 shipment to SWRI since they did not locate these seals on site.

Since polyacrylate (PA) and fluoroelastomer (FL) are depleted rather quickly, it was recommended that Test Engineering Institute (TEI) order a new batch of PA and FL as soon as the prior lot is approved to

ensure an adequate supply of inventory is maintained. Since NI is not used as often, the typical protocol of ordering new NI when the TEI inventory drops to ~100 slabs will remain in place.

TMC-169 has been identified as a J2360 oil that was approved as a replacement for the discontinued TMC reference oil 161-1. Lz and SWRI have been collecting D5662 data side-by-side with TMC -161 and TMC-169 and have now depleted their inventory of TMC-161. TMC has 5 drums of TMC 169 and both labs have sufficient quantity for using TMC-169 as a reference oil. The Test Monitoring Center (TMC) established new acceptance bands for TMC-169 based upon the mean of the results obtained on TMC-169 and either the standard deviation currently being used for TMC-161 or the standard deviation from data developed on TMC-169, whichever is larger.

The qualification data conducted by Lz and SWRI as compiled by the TMC for the new batch of FL385 (data in Appendix), was reviewed by the Panel. The % elongation and volume change, as well as shore hardness change for FL385 in both 169 and 160-1 reference oils fell within the Shewhart acceptance bands. A motion passed (7 approved/0 disapproved/1 abstention from TMC) that was made by D. Bell and 2nd by B. Grinfield: Effective immediately approve FL385 batch for ASTM D5662 testing. TEI was instructed to release FL385 for sale as orders are received.

Meeting adjourned at 1:14 pm on 5/9/2012.

Respectfully Submitted,



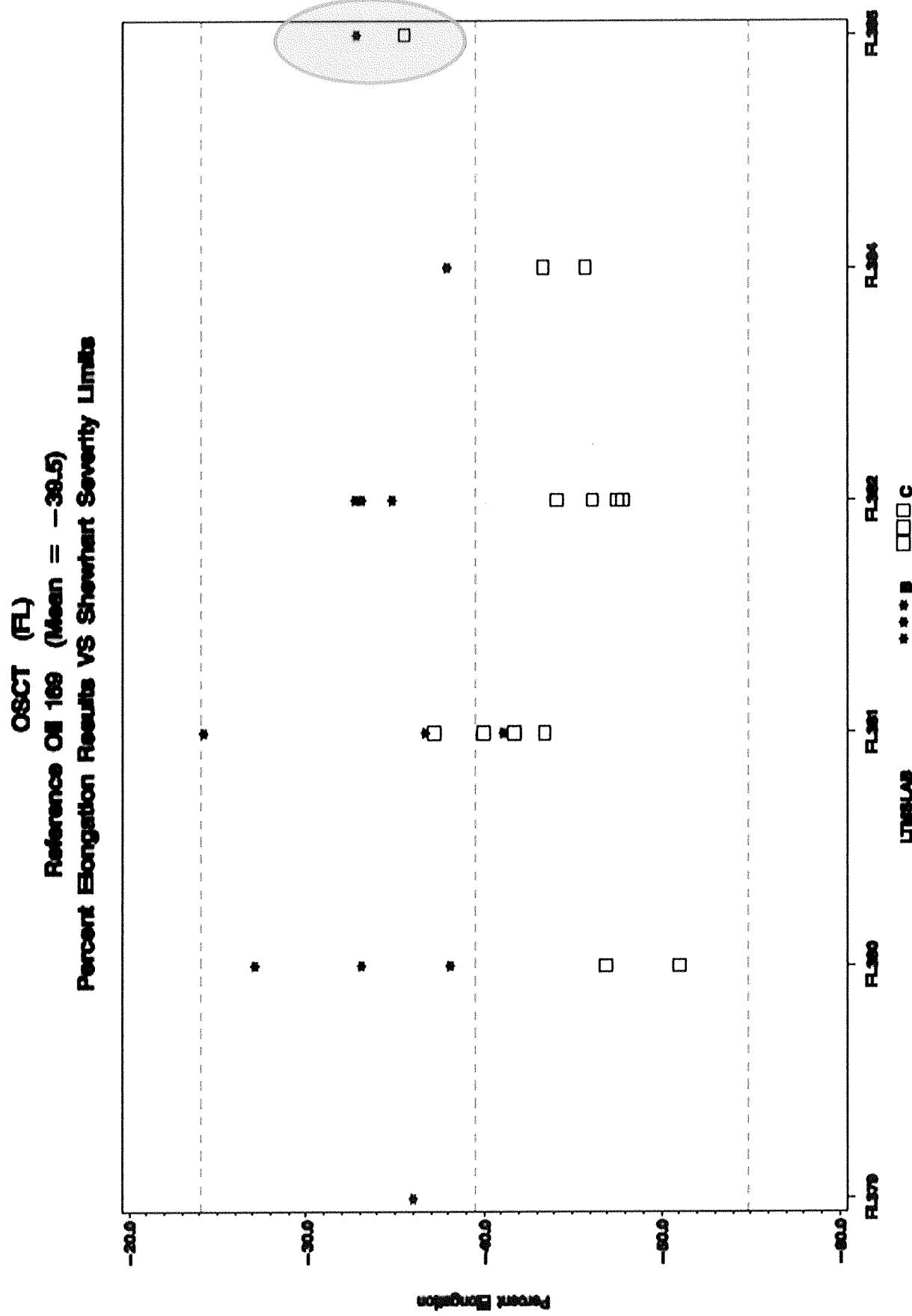
Don Bell

Appendix

OSCT Surveillance Panel Meeting

5/9/2012

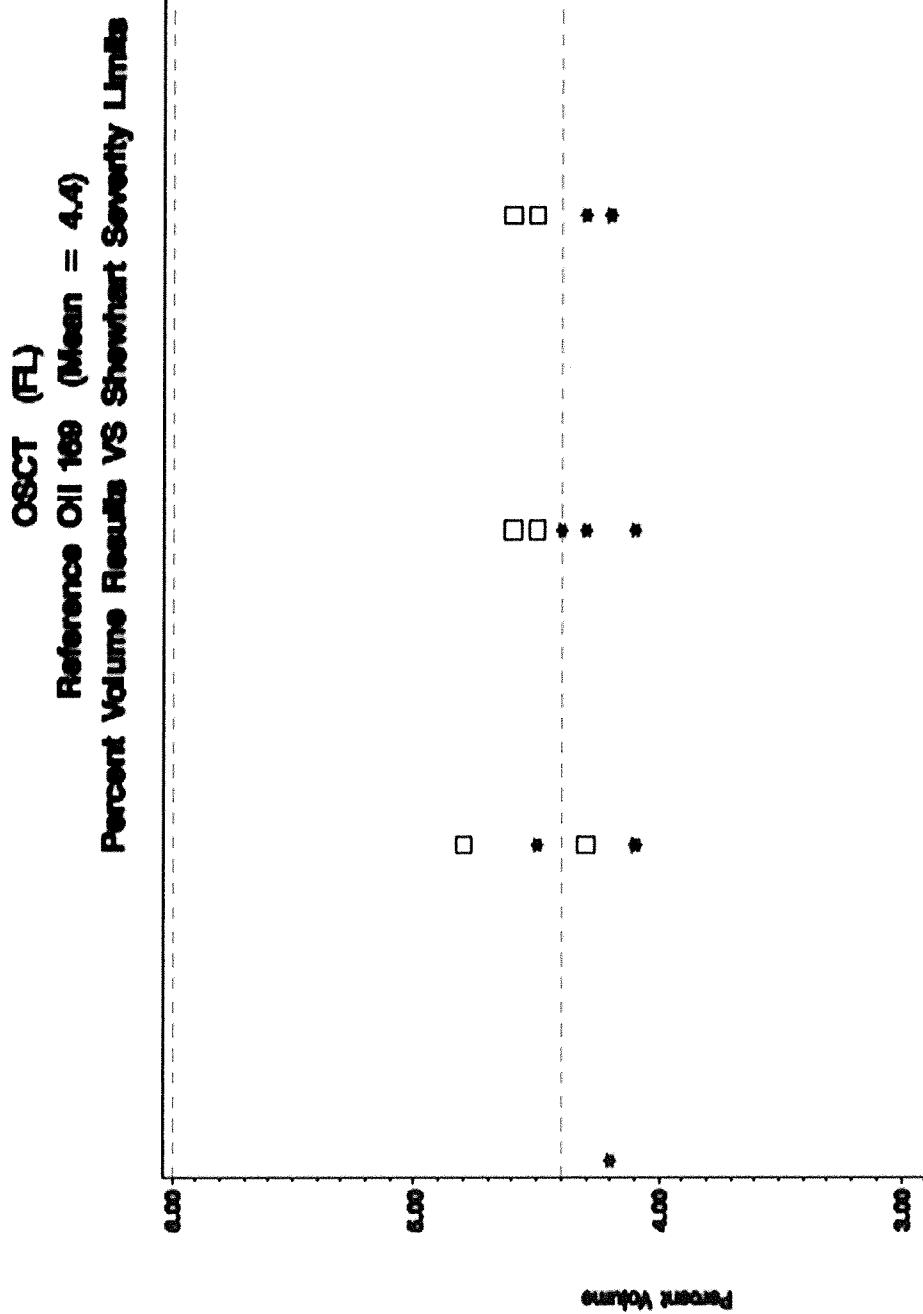
FL385: TMC Reference Oil Data



Afton
C. M. F. M. I. C. A. I.

OSCTSP Meeting

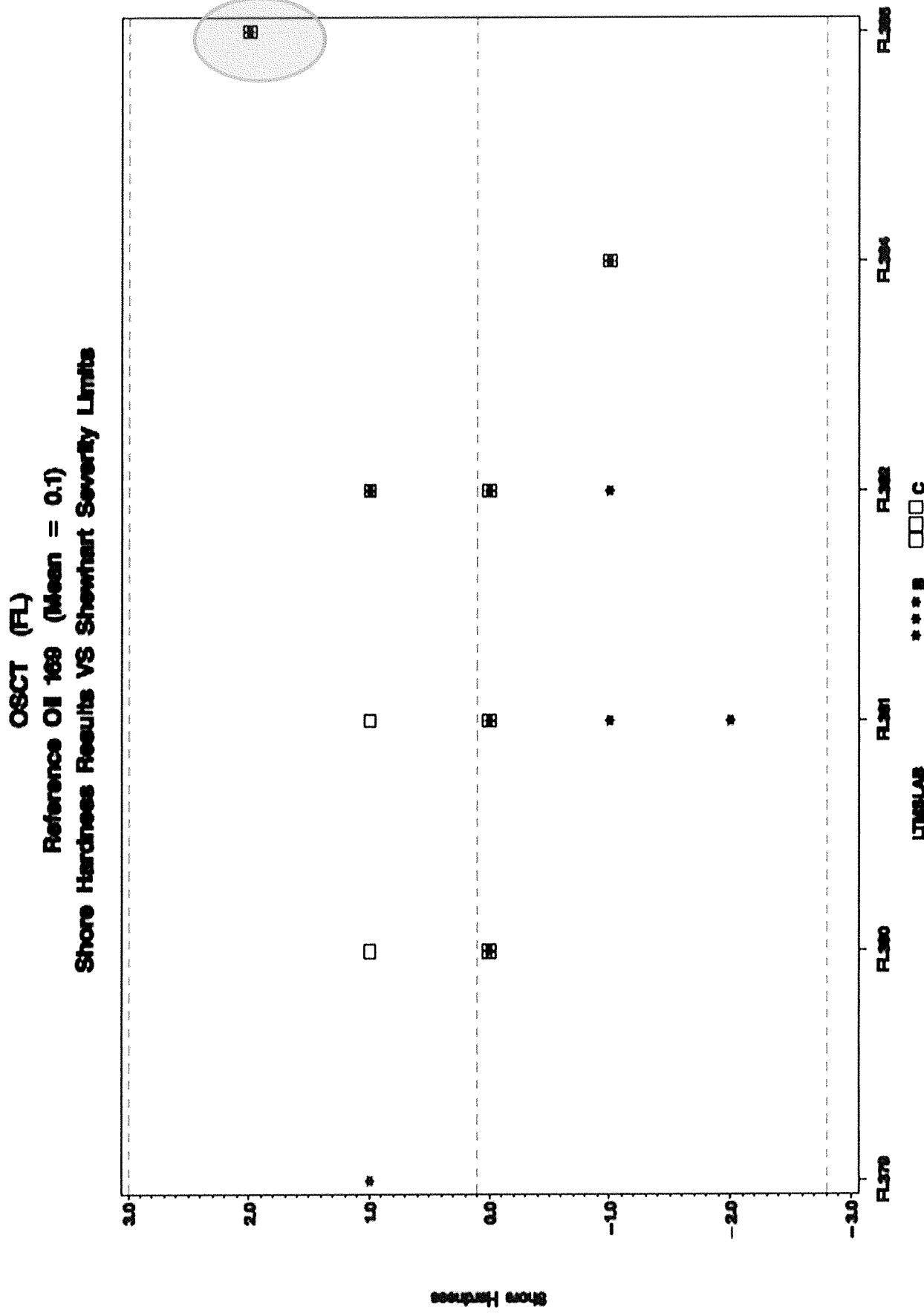
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OSCTSP Meeting

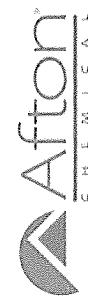
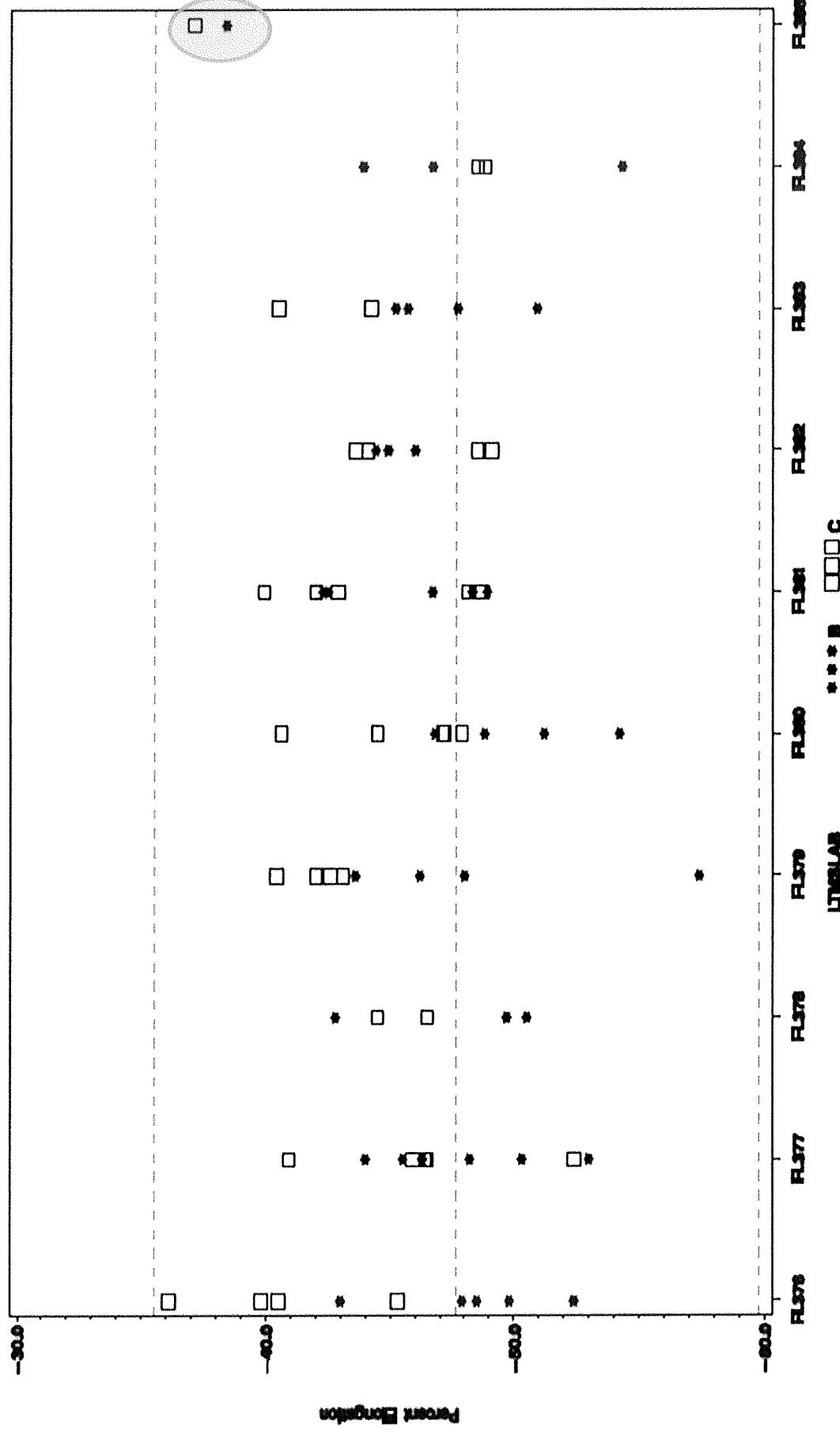




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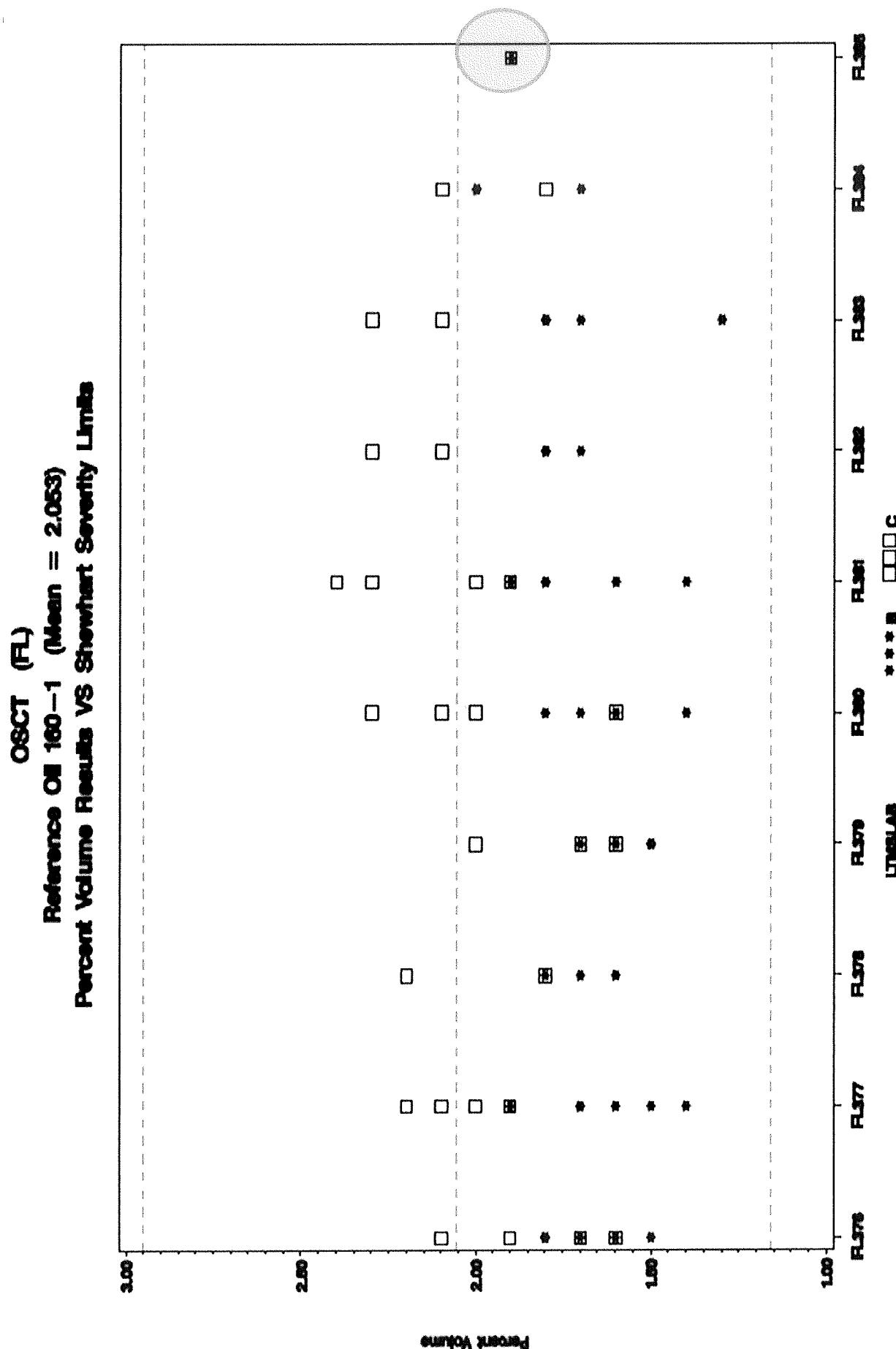
OSCTSp № 111-10

OSCT (FL)
Reference On 160-1 (Mean = -47.85)
Percent Elongation Results vs Shewhart Severity Limits



OSCT SP Meeting

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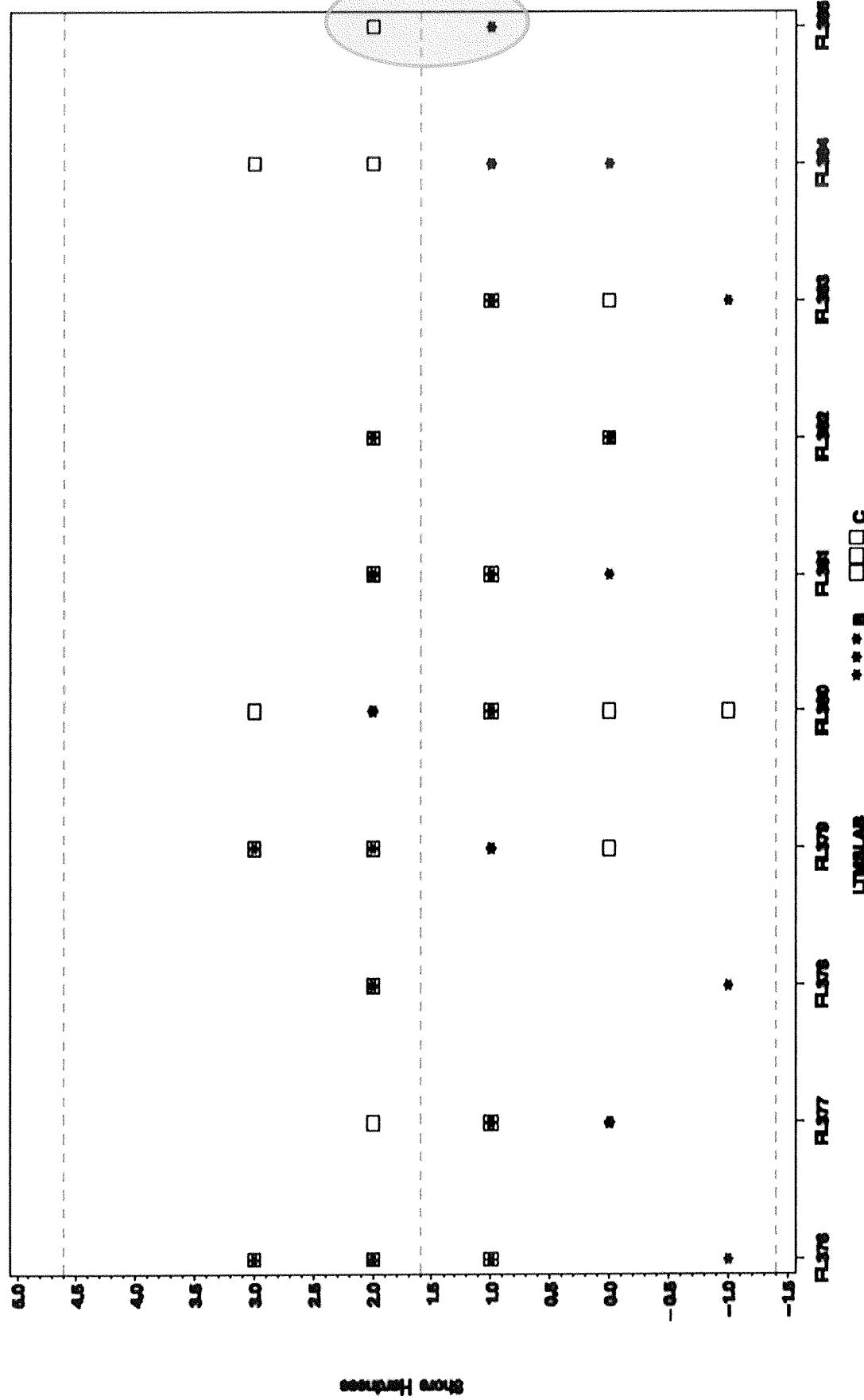


Afton
SHEMELA

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OSCTSP Metrics

OSCT (FL)
Reference CII 100-1 (Mean = 1.6)
Shore Hardness Results vs Shore Hardness Limit



 **Afton**
Chemical Company

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OSCT SP Meeting

OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Mon 9, 2012

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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: FAX: e-Mail:	301-790-5400 x3109 301-790-5815 Allison.athey@volvo.com
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OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date:

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
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OIL SEAL COMPATIBILITY SURVEILLANCE PANEL**Date:** _____

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Initials	V = Voting NV = Non-voting	Name	Company & Address	Phone / FAX / e-Mail
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4 of 4

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