

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

## Teleconference

3/12/2013

D. Bell

### Participants:

D. Bell (Afton)	C. Knight (TEI)	B. Grinfield (SWRI)	J. Gropp (Lz)
T. Muransky (Meritor)	S. Parke (TMC)	M. Holzer (SWRI)	J. Keiter (Lz)
Z. Bishop (TEI)			

The meeting was called to order at 2:02 pm 3/12/2013.

The Panel briefly discussed the recent qualification data on PA347 that was not approved due to two of the shore hardness data points generated by lab B being above the acceptance band. The following motion made by D. Bell and 2<sup>nd</sup> by B. Grinfield passed unanimously (6 approved): Labs B and C run qualification data on PA347 using 12 dumbbells in reference oil 160-1 and report results to TMC.

The Panel reviewed TMC's following proposed revisions to ASTM D5662 to document the elastomer qualification process in more detail.

- X.1 Use only elastomers that have met the approval process described in X.2 for testing.
- X.2 Before a new elastomers batch is used for testing, run one test at each calibrated lab on each reference oil approved for the elastomer type. To conserve elastomer material, run 6 specimens in place of the usual 12 specimens.
  - X.2.1 If all of these tests meet the reference oil acceptance criteria, the elastomer batch is approved for use in all testing.
  - X.2.2 If any of these tests fail to meet the reference oil acceptance criteria, re-run the same oil(s) at the same lab(s). In these circumstances, run all 12 specimens.
    - X.2.2.1 Repeat X.2.2 until the majority of the results meet the reference oil acceptance criteria.

The following motion made by S. Parke and 2<sup>nd</sup> by J. Gropp passed unanimously (6 approved): Include new qualification procedures X.1 through X.2.2.1 as listed above into the ASTM D5662 procedure. TMC will issue an information letter to document the revision to ASTM D5662 accordingly.

The elastomer qualification data (see Appendix) conducted by Lz and SWRI as compiled by the TMC for the new batch of PA348 was also reviewed by the Panel. The % elongation, volume change%, and shore hardness change for PA348 in both TMC 160-1 and 169 reference oils fell within the Shewhart acceptance bands. The following motion passed unanimously (6 approved)

that was made by D. Bell and 2<sup>nd</sup> by B. Grinfield: Effective immediately approve PA348 for ASTM D5662 candidate testing. TEI is instructed to release PA348 for sale.

FL389 qualification data has been submitted to the TMC by both labs, so D. Bell will call another OSCT Surveillance Panel teleconference to review the data once the TMC emails the plotted data.

The Panel also reviewed the shore hardness data from both labs as shown in the Appendix. The conclusion is that there is no performance difference in Shore A hardness in either severity or precision between the two labs.

The meeting was adjourned at 2:38 pm on 3/12/2013.

Respectfully Submitted,

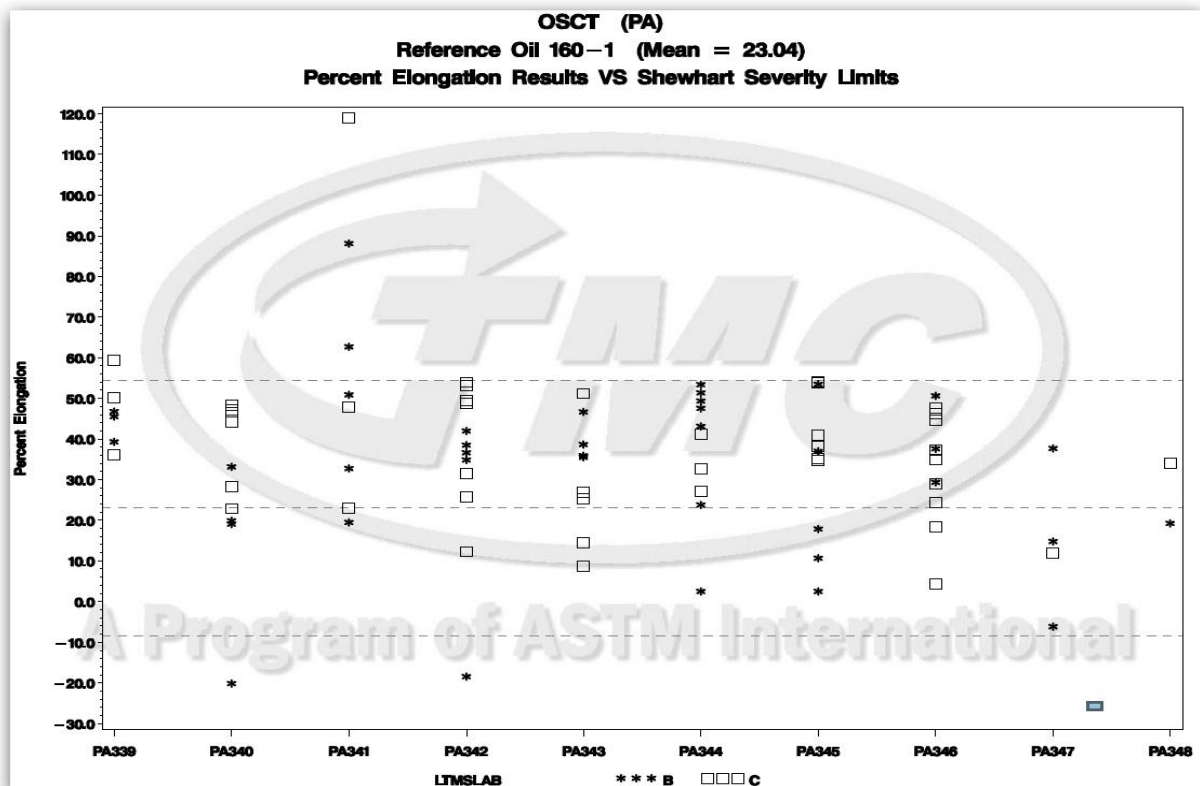
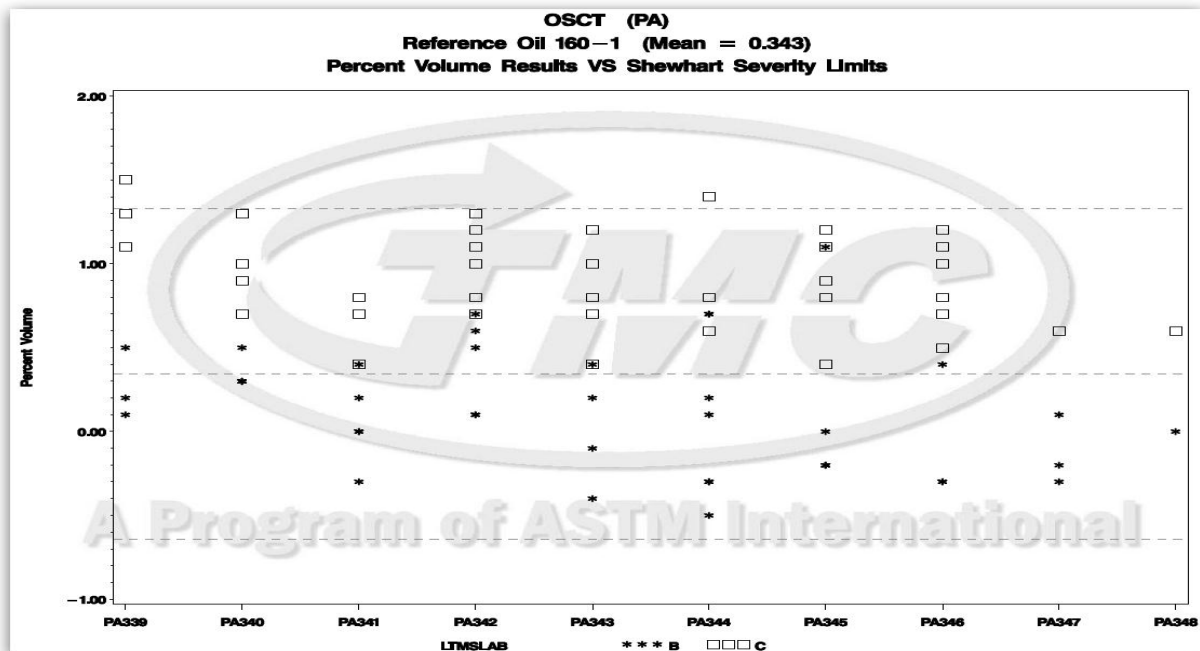
Don Bell

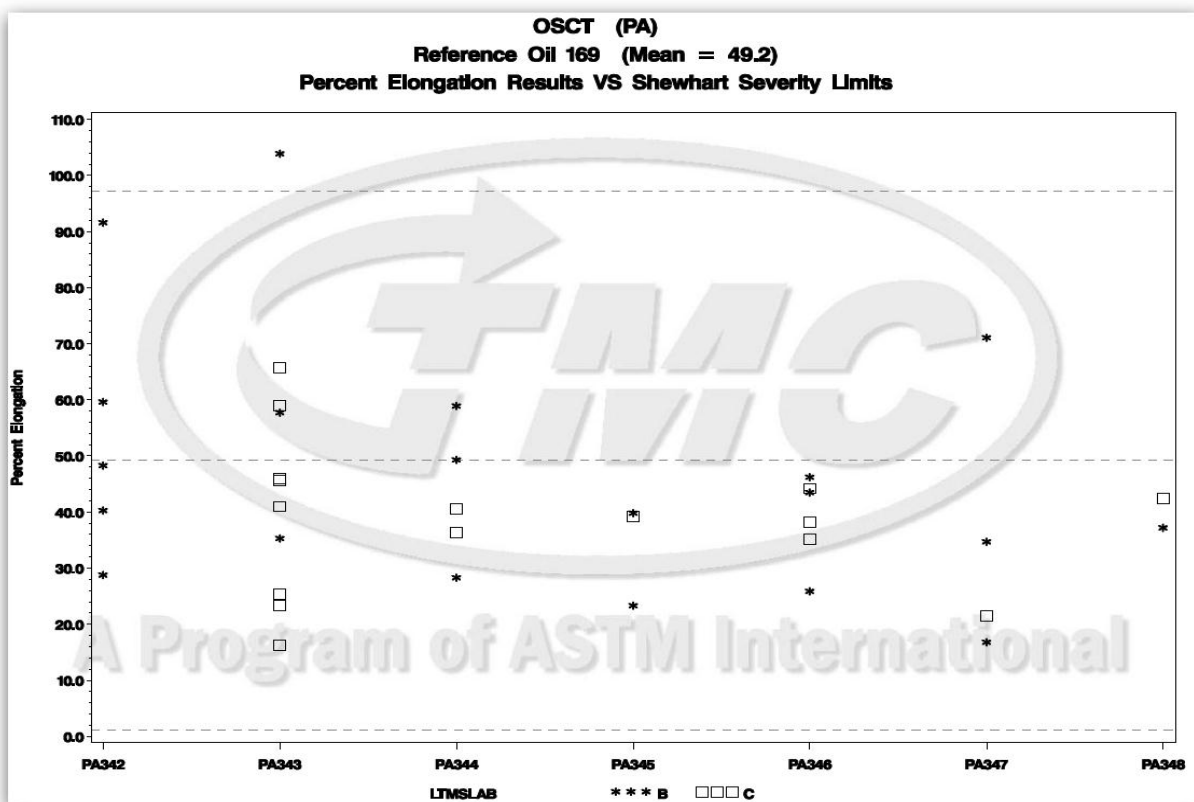
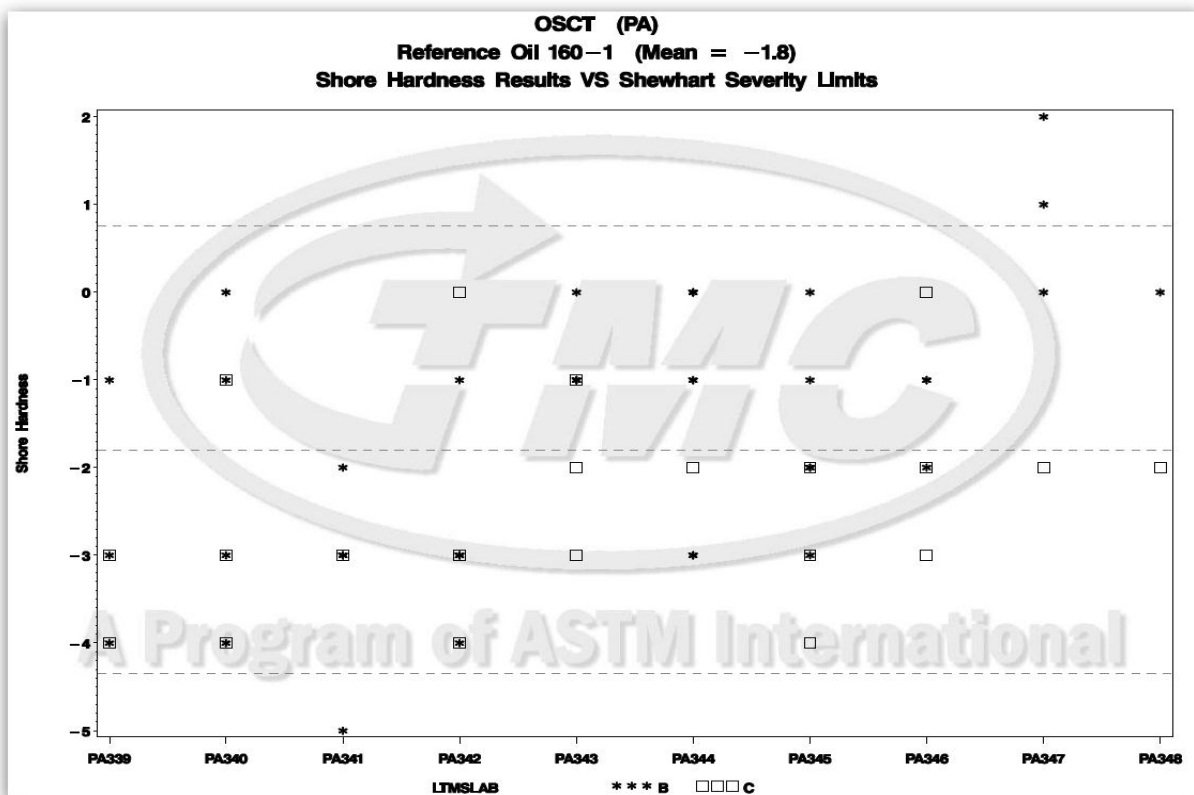
# **Appendix**

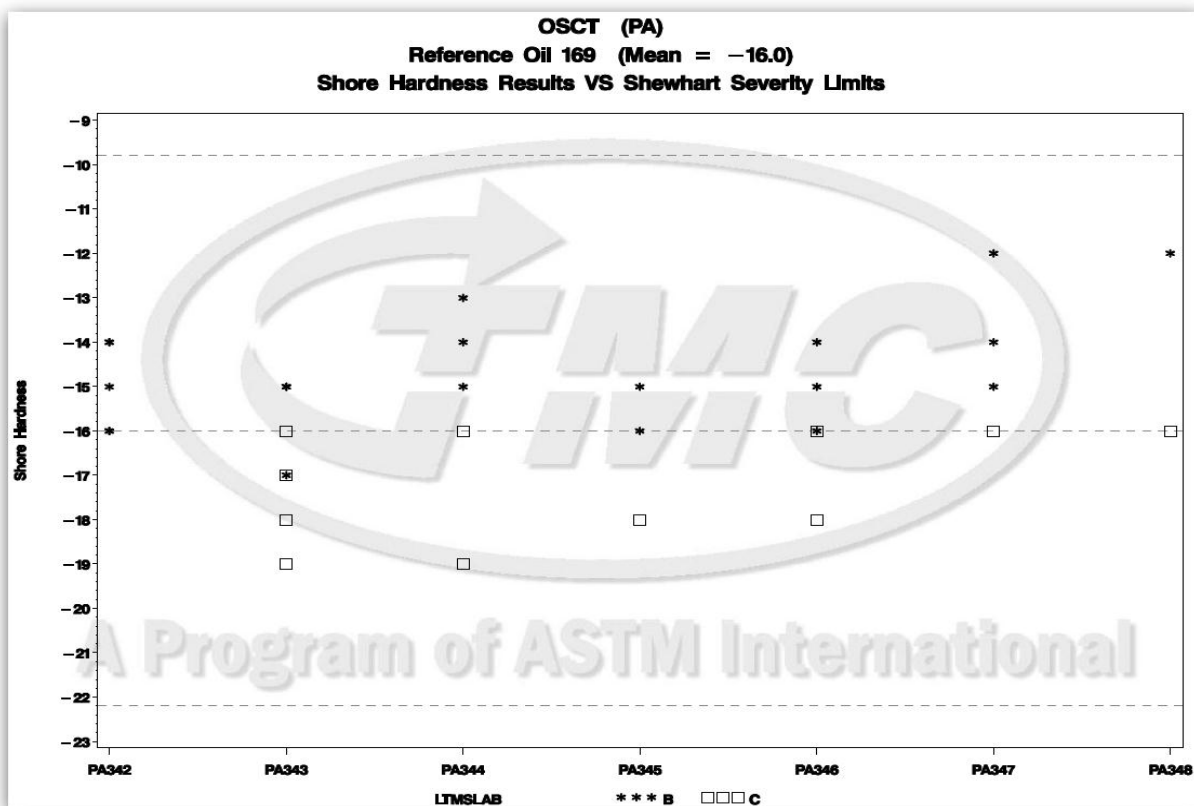
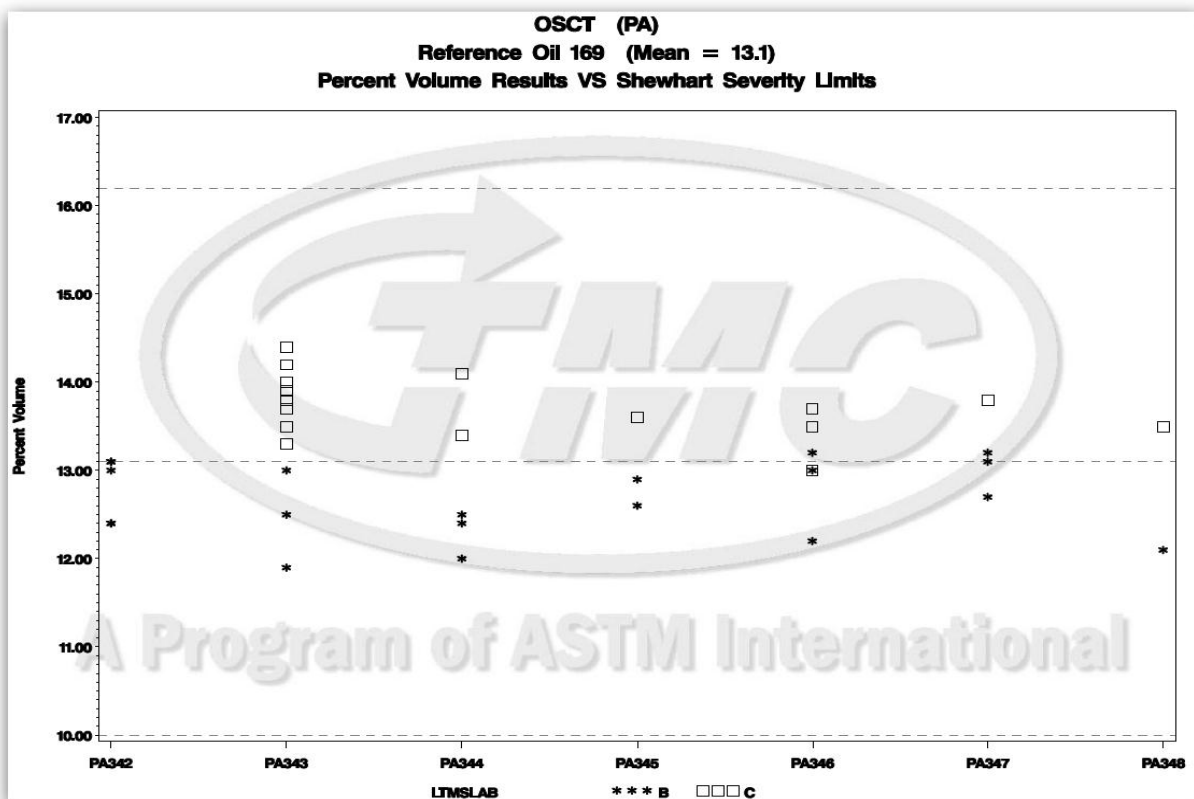
**OSCT Surveillance Panel Meeting**

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# PA348: TMC Qualification Data





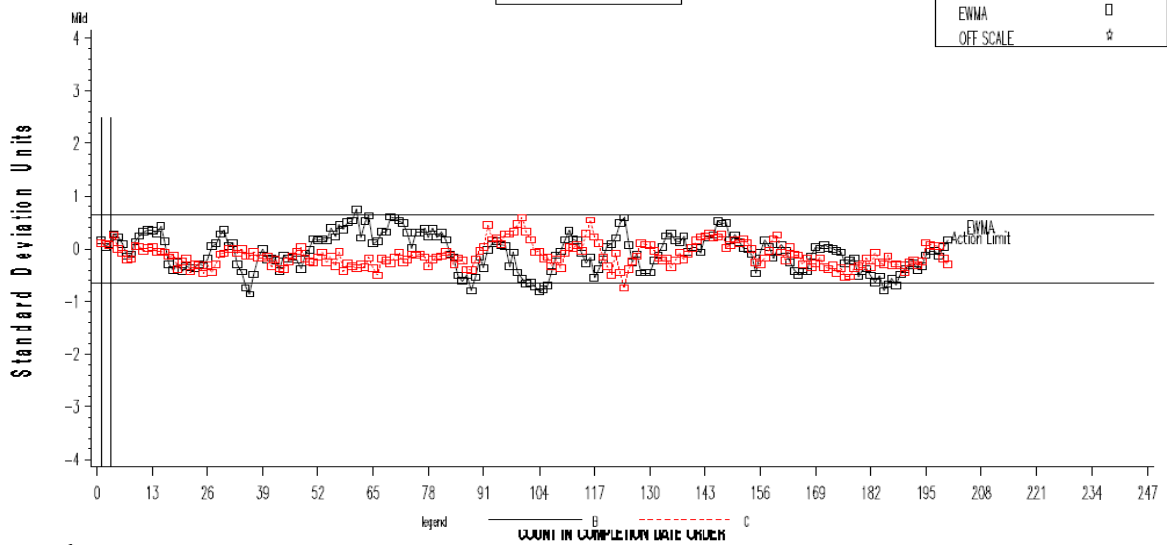


OSCT LABORATORY OPERATIONALLY VALID DATA



REF. SHORE A HARDNESS CHANGE AVG.

LTMS Severity Analysis



LTMS Precision Analysis

