

Oil Seal Compatibility Test (OSCT) Surveillance Panel Meeting Minutes

February 24, 2016

Don Bell

Participants:

A. Goyal (BASF) A. Trader (Intertek) C. Knight (TEI) D. Lanctot (TEI)
D. Mosher (Eaton) S. Parke (TMC) W. Venhoff (Lz) V. Marsic (Lz)
V. Donndelinger (Lz) E. Donovan (Afton) D. Bell (Afton)

An OSCT Surveillance Panel meeting was called to order by D. Bell at 10:00 am on 2/24/2016 via Webex.

The Panel reviewed the graphs found in the Appendix of the qualification data submitted by labs B, C and G for a new lot of polyacrylate, PA355. For % elongation in TMC 160-1 reference oil, lab B initial data point was just below the lower acceptance band, but a repeat run showed to meet specification. For shore hardness in 160-1, the initial measurement by lab B was just above the upper limit, but a repeat showed it to comfortably meet specification with a value matching that of lab C. All other measured parameters for PA355 in TMC 160-1 met specification for all three labs. Also, % elongation, % volume change, and shore hardness for PA355 in TMC 169 reference oil were in specification for all three labs.

A motion made by D. Bell and 2nd by W. Venhoff to approve polyacrylate batch PA355 for use in ASTM D5662 testing was unanimously approved with 7 votes. TEI was instructed to release PA355 for sale as orders are placed by the test labs.

The Panel reviewed the graphs found in the Appendix of the qualification data submitted by labs B and C (lab G does not conduct nitrile testing) for a new lot of nitrile, NI347. For % elongation in TMC 169 reference oil, lab C initial data points were above the upper acceptance limit, but two repeats brought the values back near target. The lab B % elongation in reference oil 169 was within specification. Likewise, all other measured parameters, % volume change and shore hardness, for NI347 in reference oil 169 were within specification and close to target for both labs. In addition, % elongation, % volume change, and shore hardness for NI347 in reference oil 168 were within specification for both labs.

A motion made by D. Bell and 2nd by D. Mosher to approve nitrile batch NI347 for use in ASTM D5662 testing was unanimously approved with 7 votes. TEI was instructed to release NI347 for sale as orders are placed by both test labs.

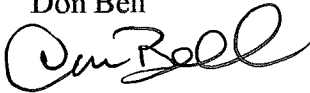
The Panel reviewed the graphs found in the Appendix of the qualification data submitted by labs B, C, and G for a new lot of fluoroelastomer, FL399. For % elongation in TMC 160-1 reference oil, lab B had two data points above the upper acceptance band, and only one within data point within specification. Lab B and G shore hardness in 160-1 were below the lower acceptance band, but repeat runs being just within specification on the low side. Lab B data point for % elongation in reference oil 169 was well above the upper acceptance band. The other measured parameters not noted above were within specification in both reference oils.

The Panel decided that lab B needs to conduct another qualification run on FL399 in both 160-1 and 169 reference oils, and lab G needs to repeat qualification testing for FL399 in 160-1 reference oil.

A motion made by D. Bell to adjourn the meeting at 10:36 am on 2/24/2016 was unanimously approved.

Respectfully Submitted,

Don Bell

A handwritten signature in black ink, appearing to read "Don Bell", written in a cursive style.

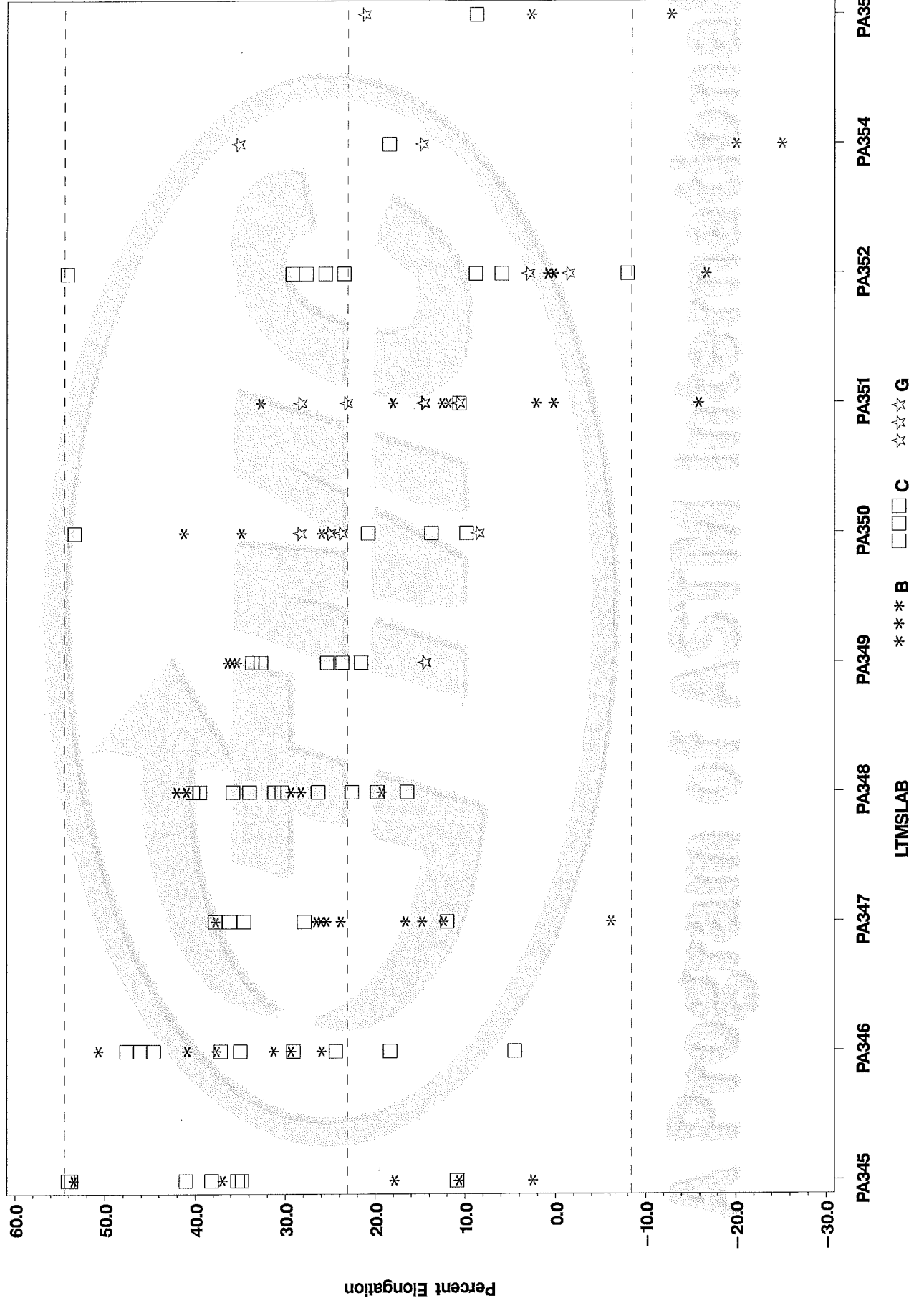
Appendix

PA355 Graphs

NI347 Graphs

FL399 Graphs

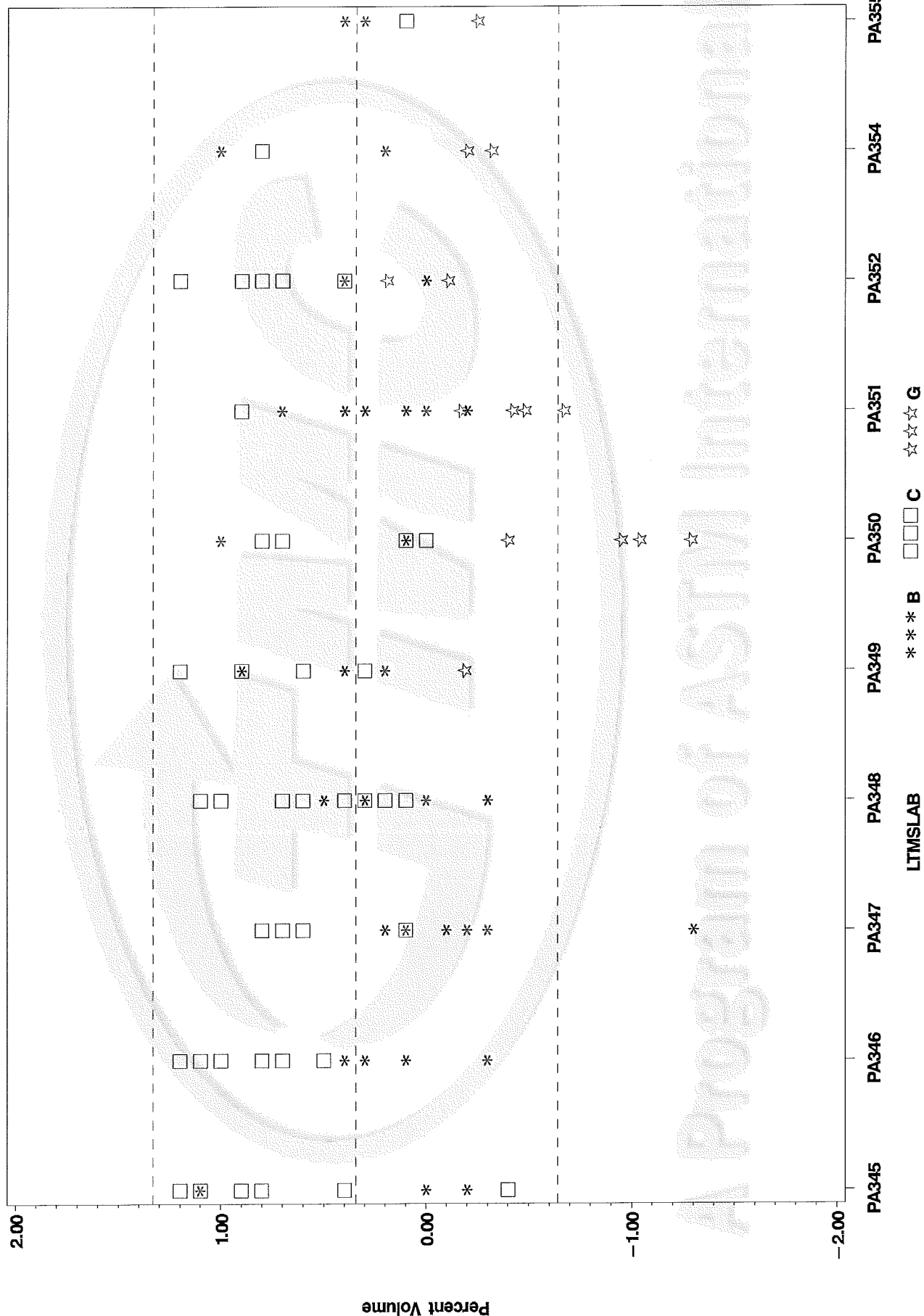
OSCT (PA)
Reference Oil 160-1 (Mean = 23.04)
Percent Elongation Results VS Shewhart Severity Limits



OSCT (PA)

Reference Oil 160-1 (Mean = 0.343)

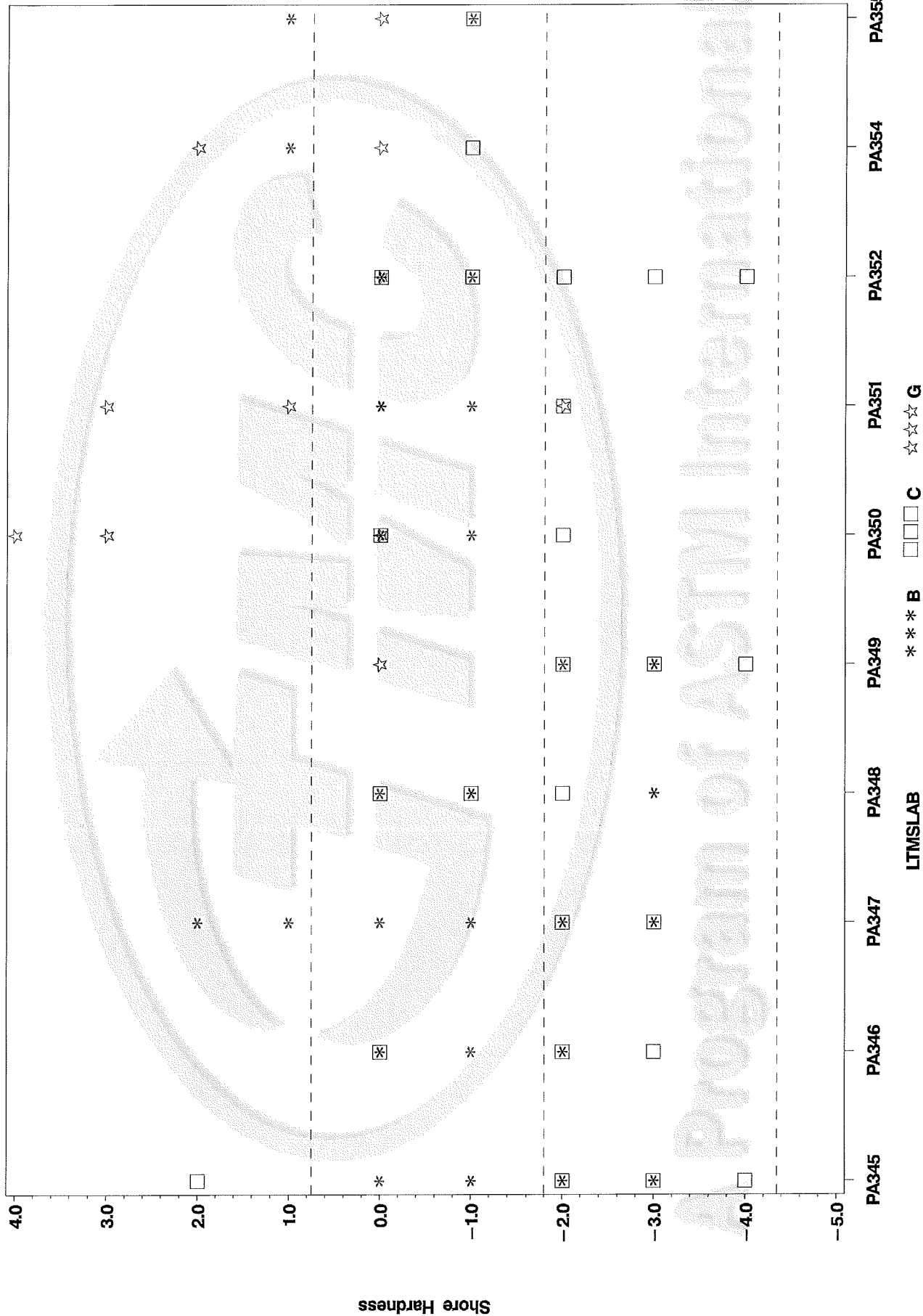
Percent Volume Results VS Shewhart Severity Limits



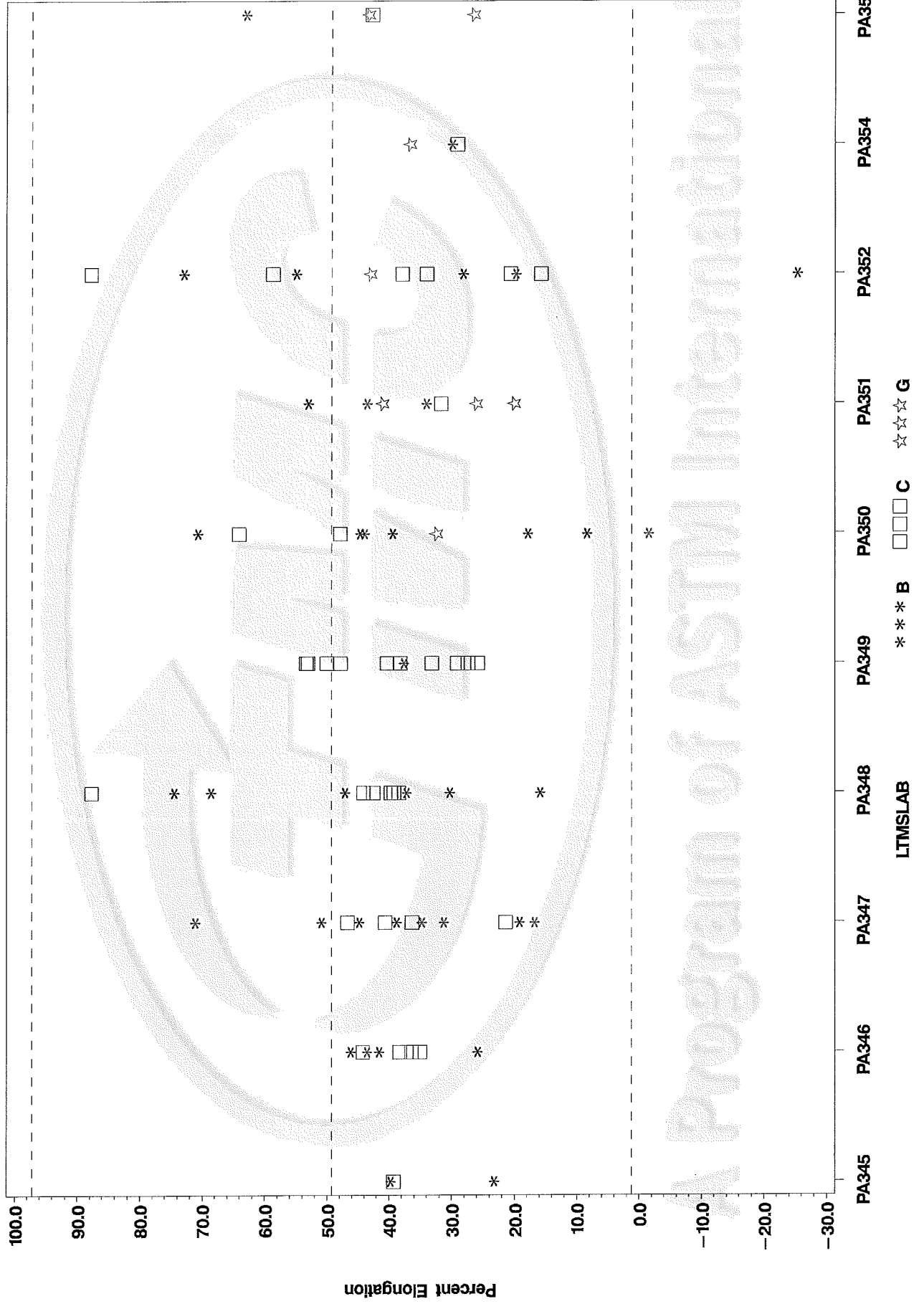
OSCT (PA)

Reference Oil 160-1 (Mean = -1.8)

Shore Hardness Results VS Shewhart Severity Limits



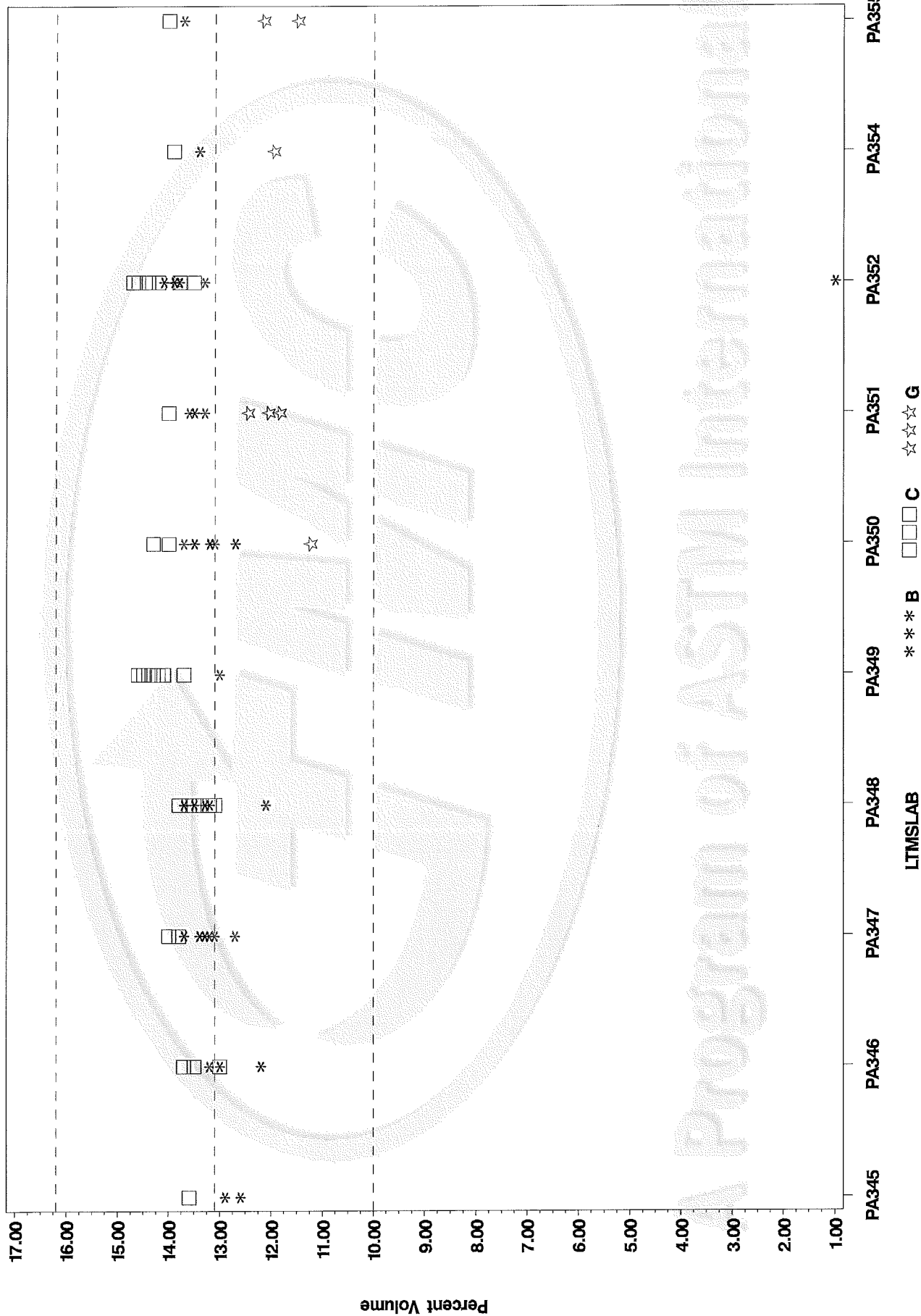
OSCT (PA)
Reference Oil 169 (Mean = 49.2)
Percent Elongation Results VS Shewhart Severity Limits



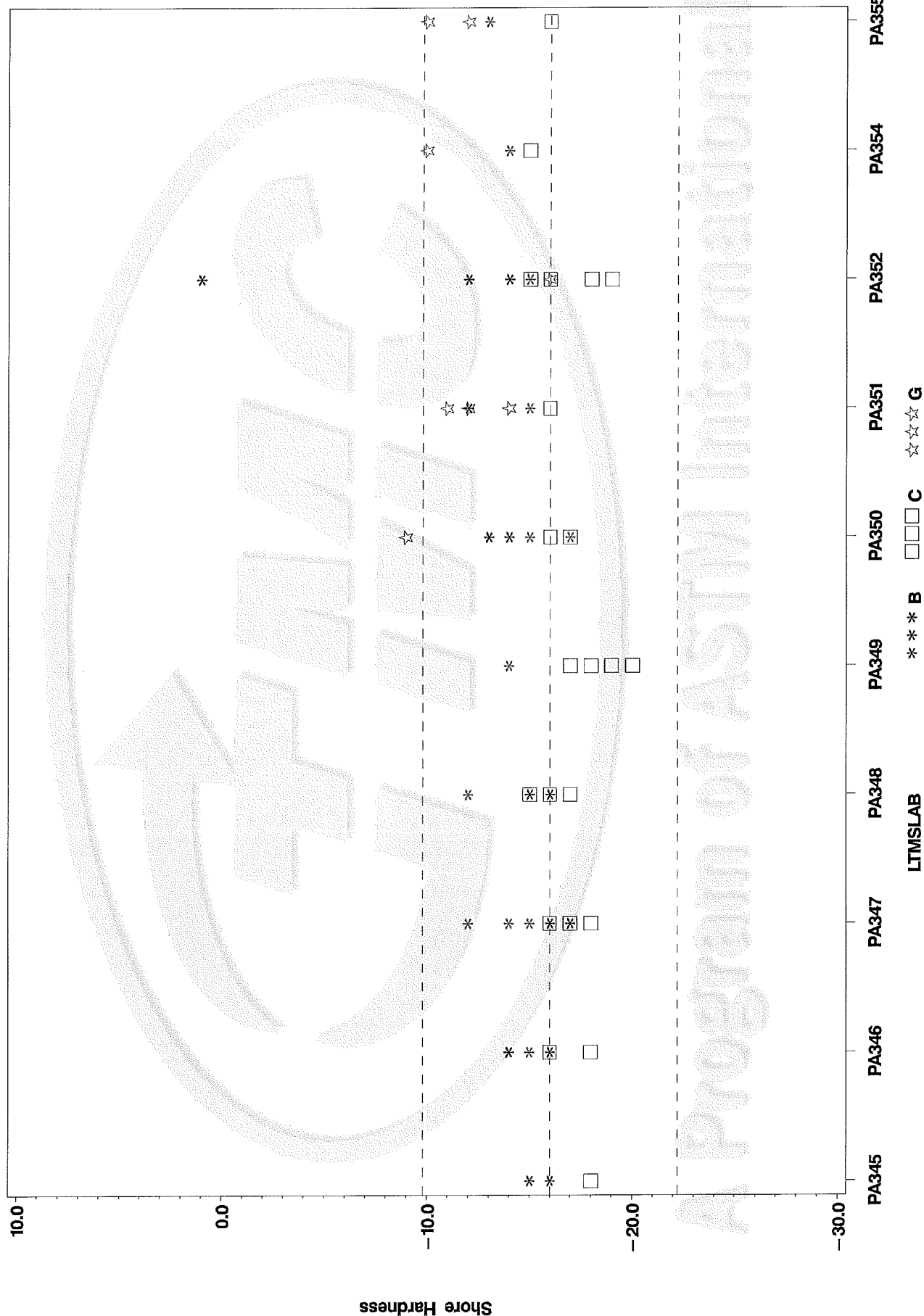
OSCT (PA)

Reference Oil 169 (Mean = 13.1)

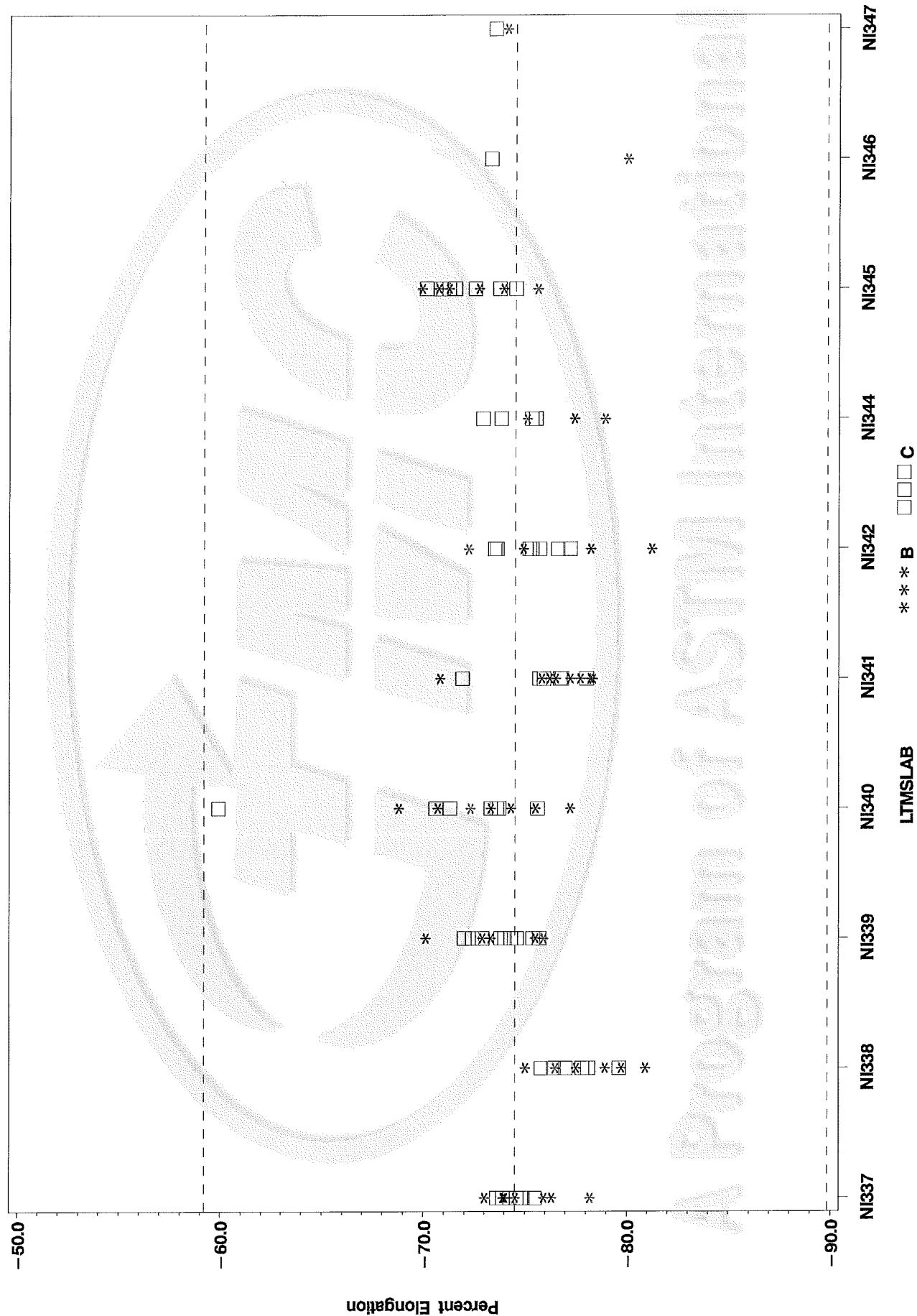
Percent Volume Results VS Shewhart Severity Limits



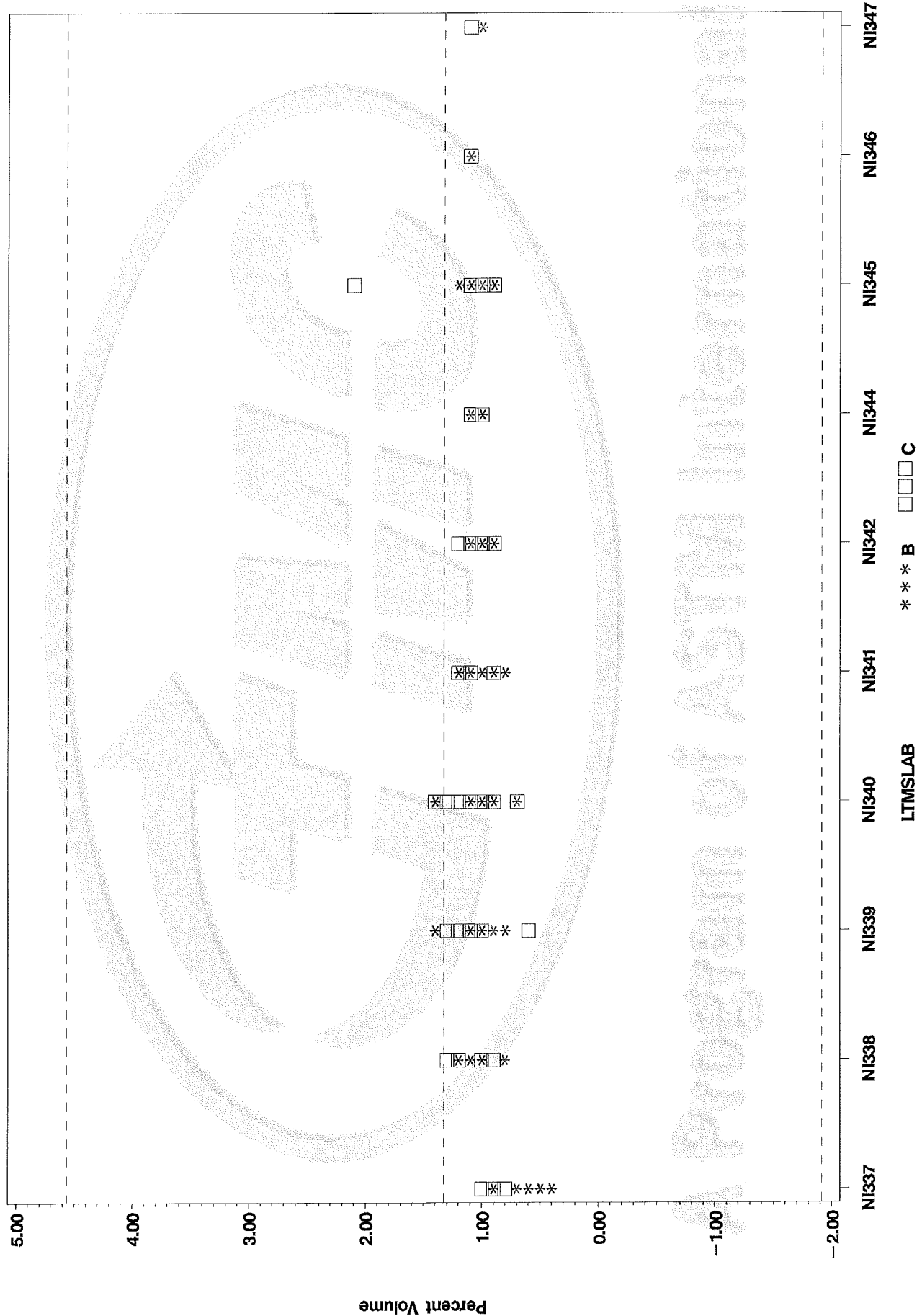
Shore Hardness Results VS Shewhart Severity Limits



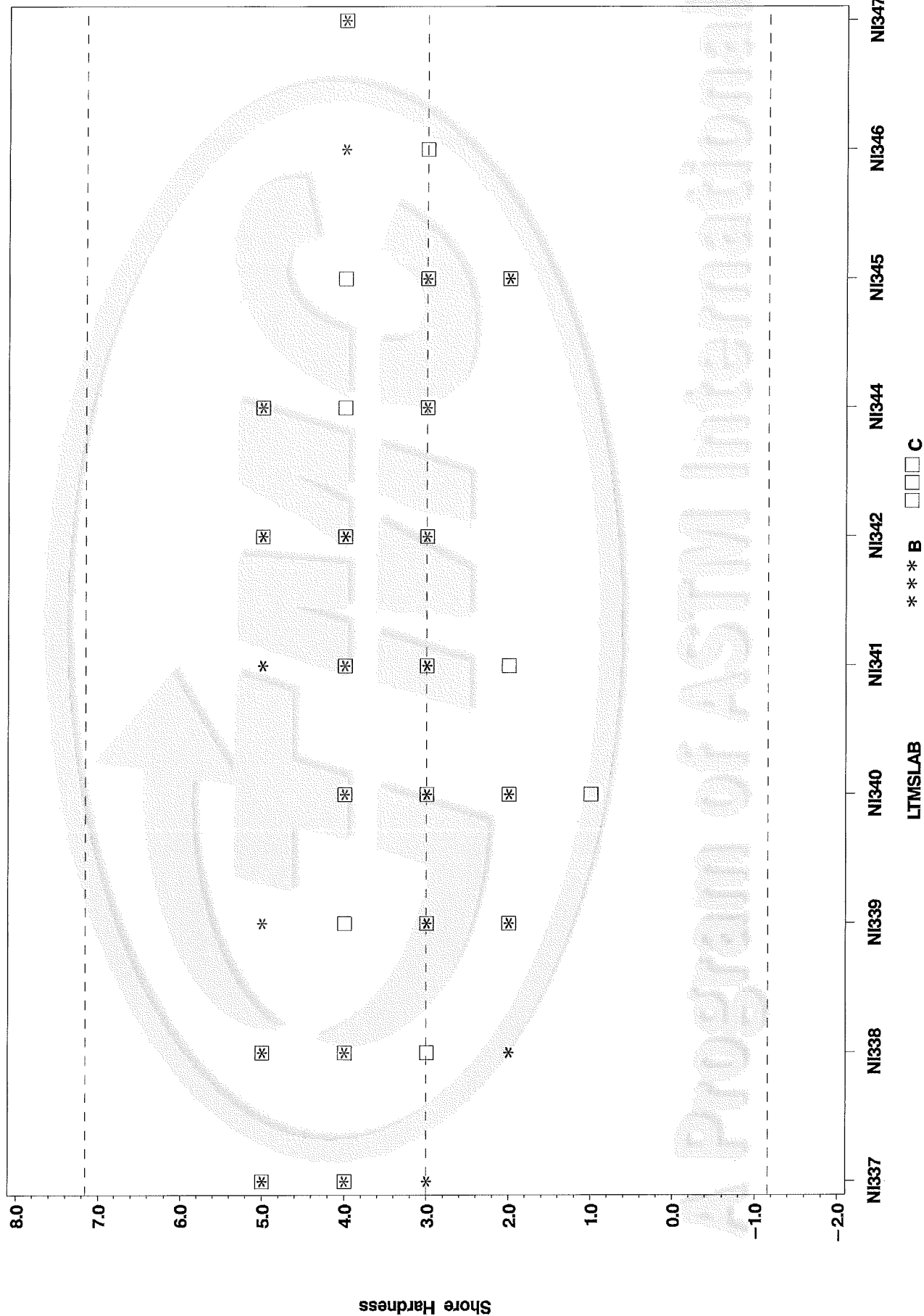
Reference Oil 168 (Mean = -74.52)



OSCT (NI)
Reference Oil 168 (Mean = 1.326)
Percent Volume Results VS Shewhart Severity Limits



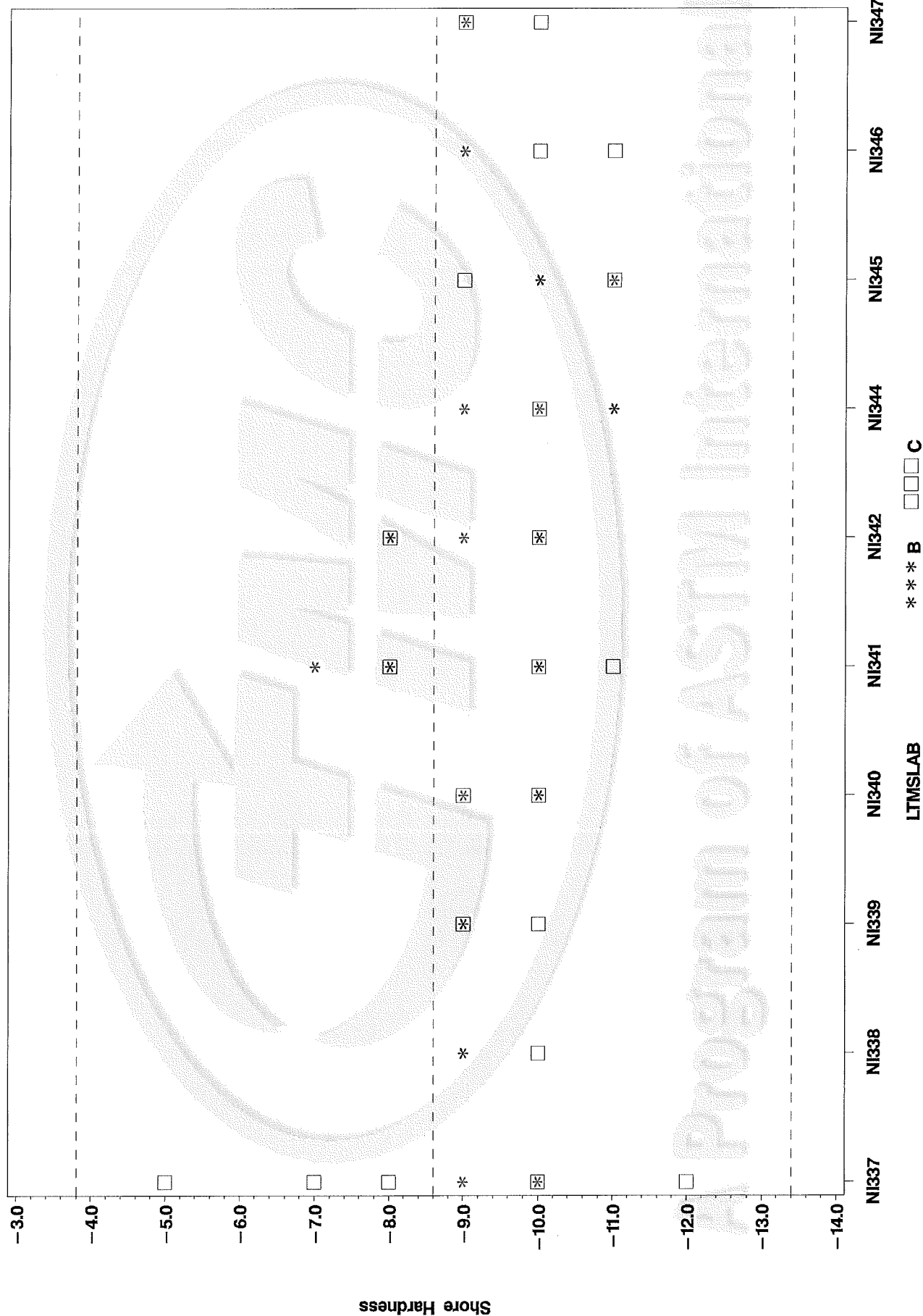
OSCT (NI)
Reference Oil 168 (Mean = 3)
Shore Hardness Results VS Shewhart Severity Limits



OSCT (NI)

Reference Oil 169 (Mean = -8.6)

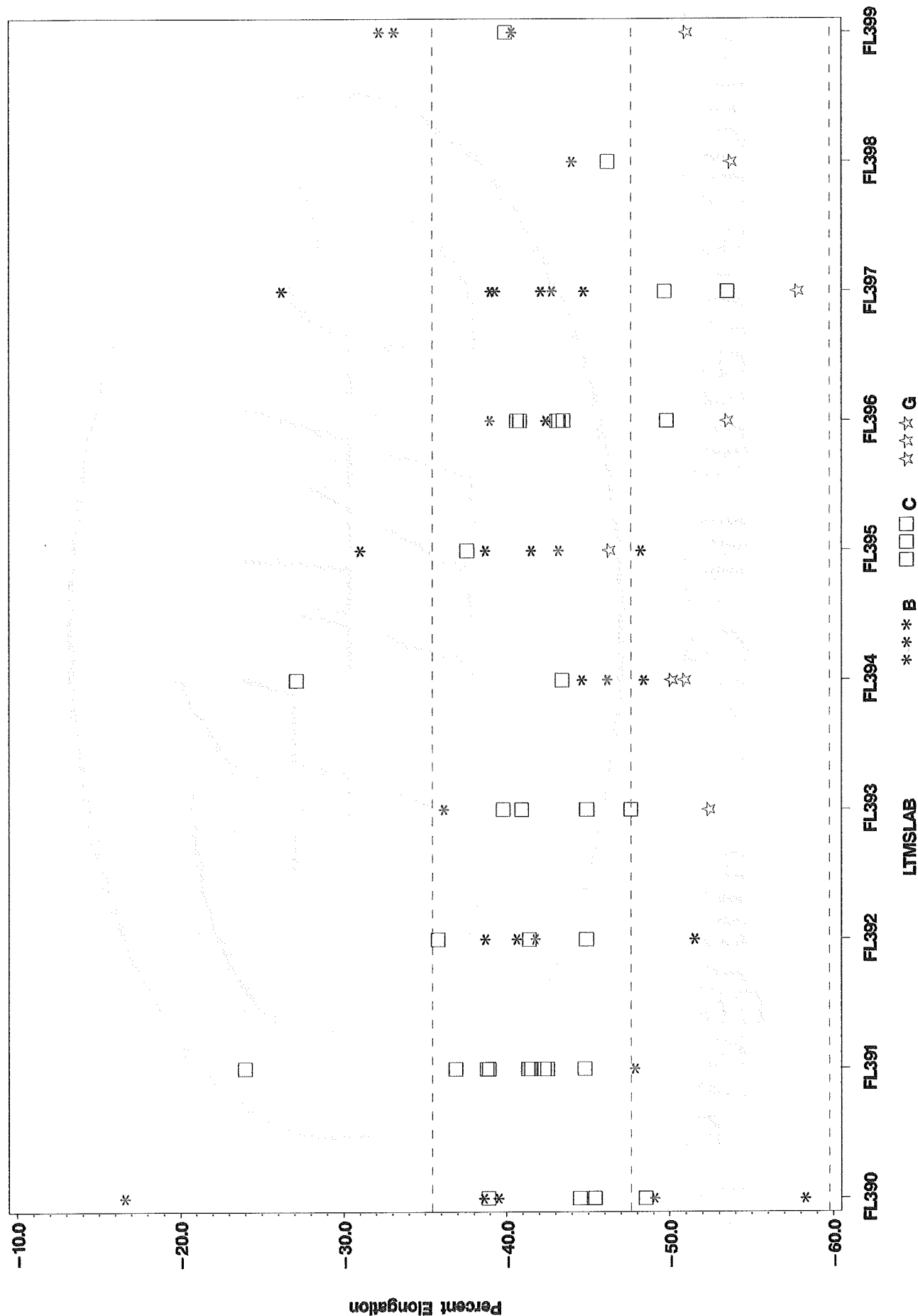
Shore Hardness Results VS Shewhart Severity Limits



OSCT (FL)

Reference Oil 160-1 (Mean = -47.65)

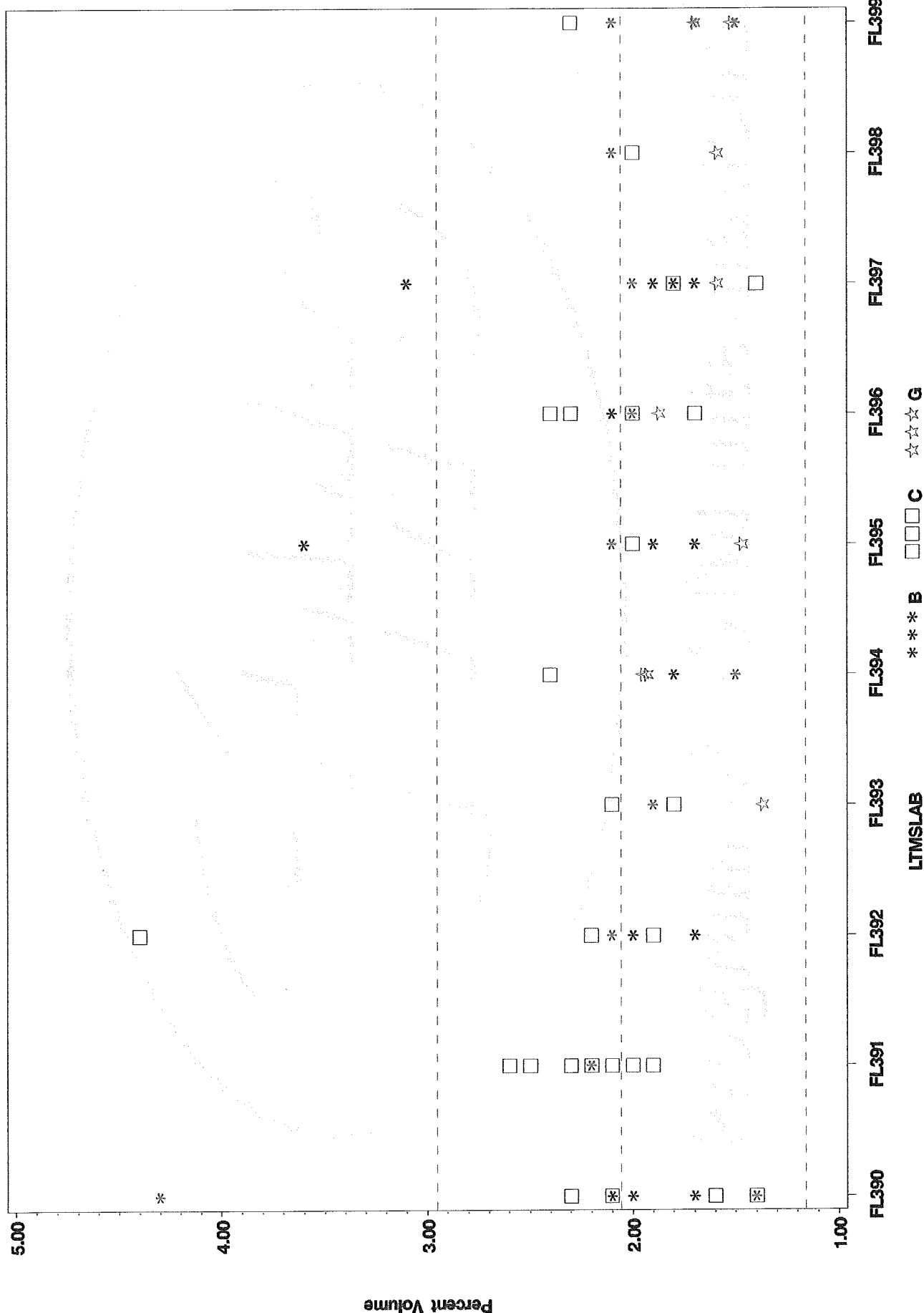
Percent Elongation Results VS Shewhart Severity Limits



OSCT (FL)

Reference Oil 160-1 (Mean = 2.053)

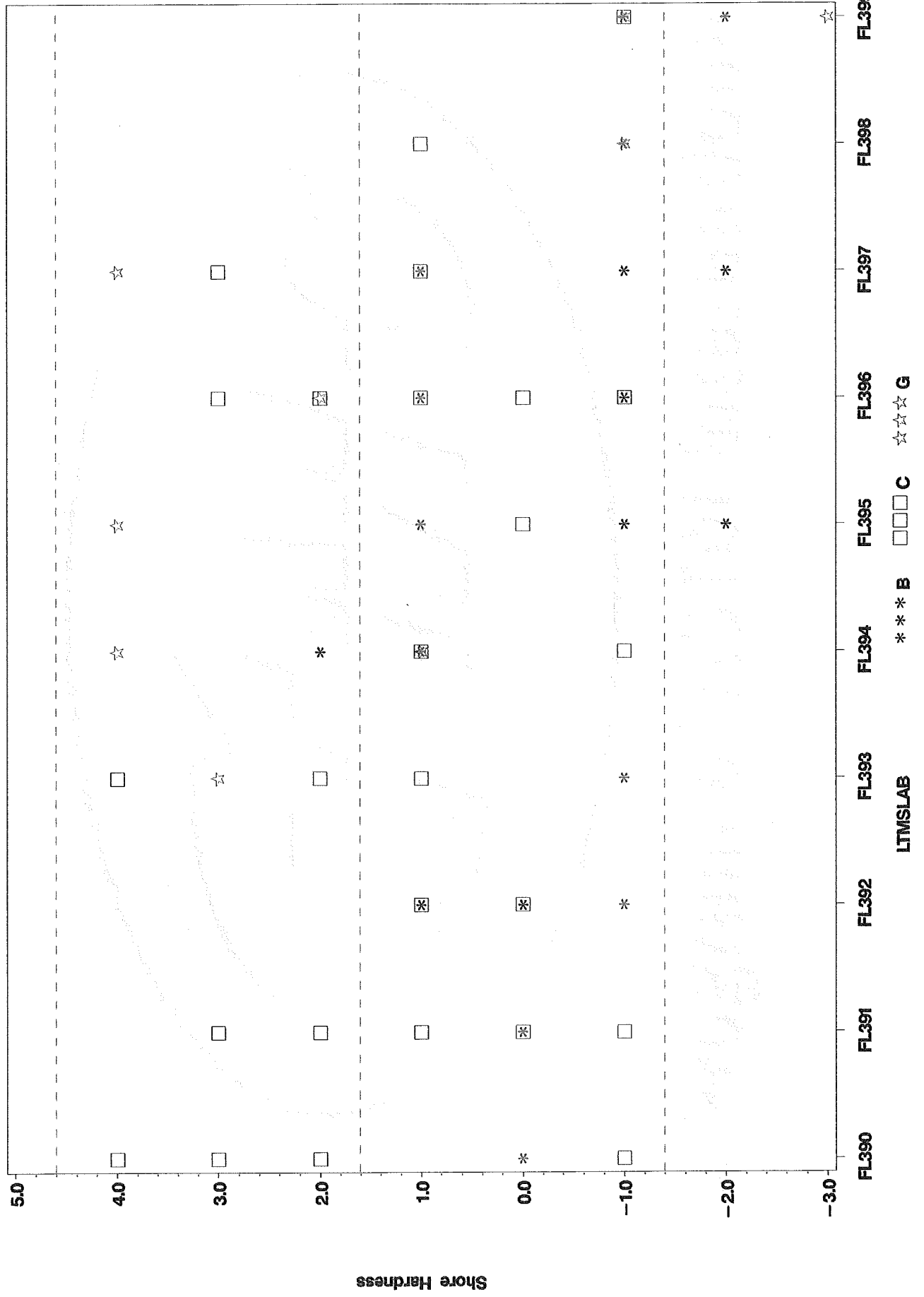
Percent Volume Results VS Shewhart Severity Limits



OSCT (FL)

Reference Oil 160-1 (Mean = 1.6)

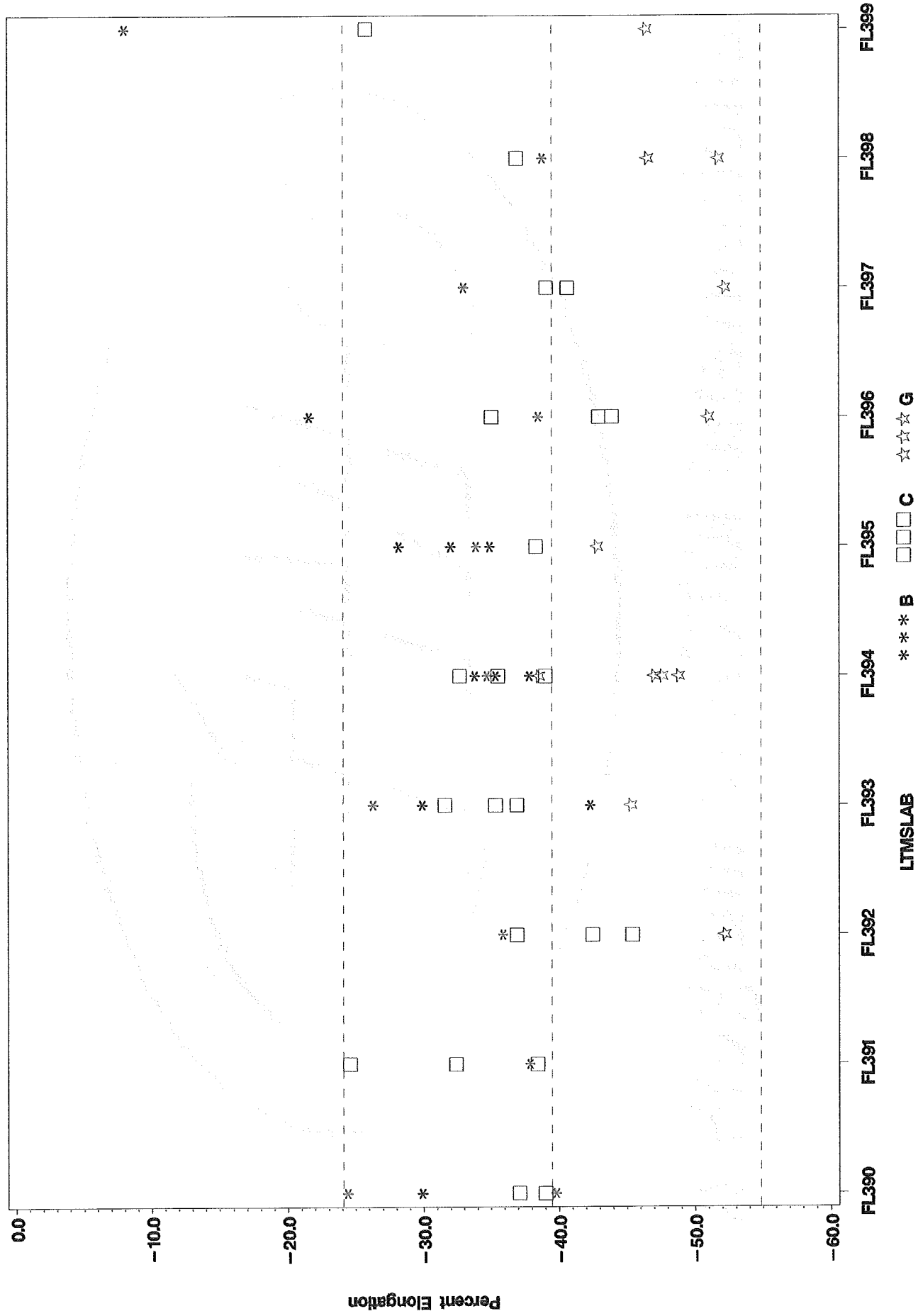
Shore Hardness Results VS Shewhart Severity Limits



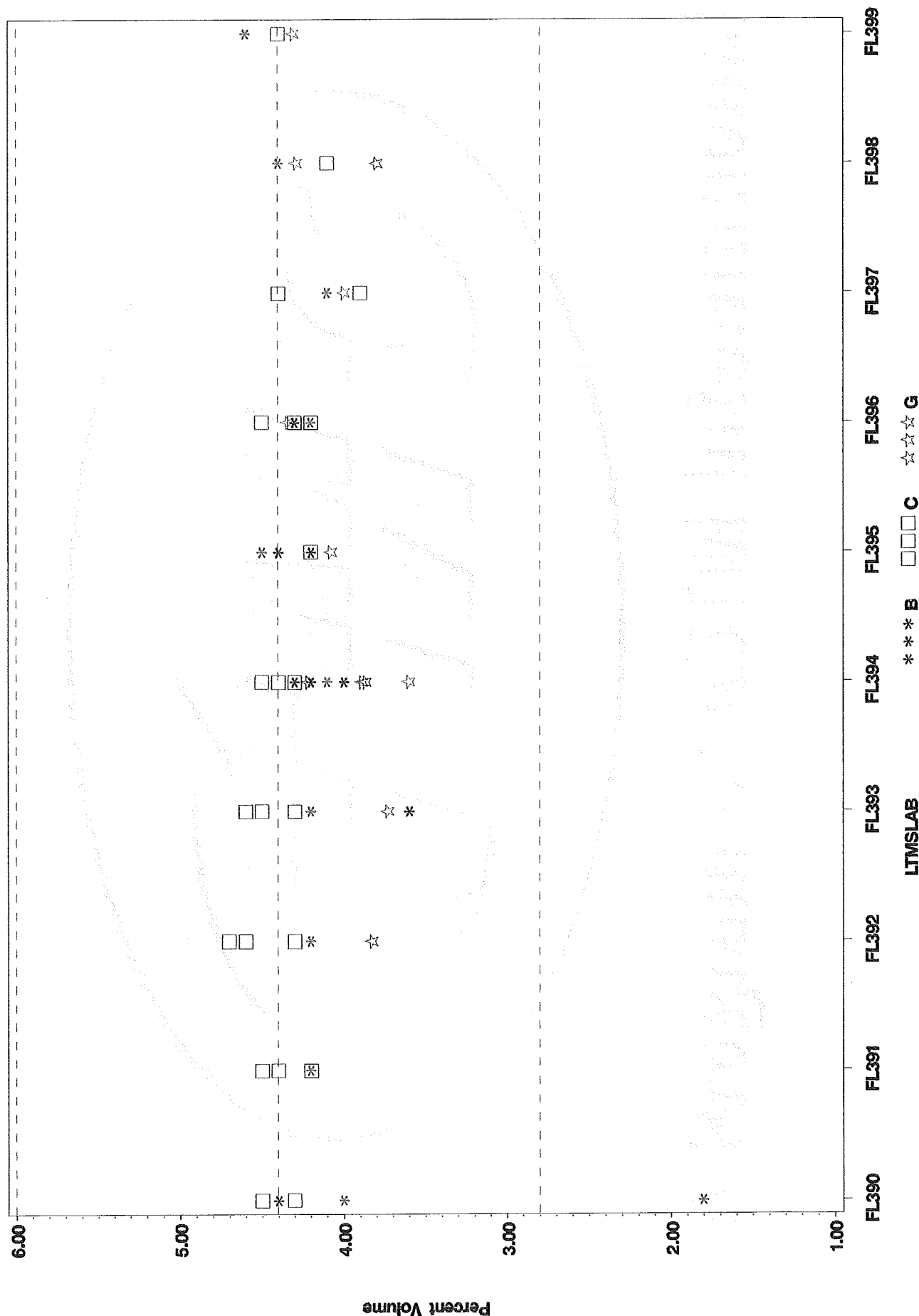
OSCT (FL)

Reference Oil 169 (Mean = -39.5)

Percent Elongation Results VS Shewhart Severity Limits



Percent Volume Results VS Shewhart Severity Limits



OSCT (FL)

Reference Oil 169 (Mean = 0.1)

Shore Hardness Results VS Shewhart Severity Limits

