# OSCT Surveillance Panel Teleconference Meeting

## Meeting Minutes from Teleconference Conducted on 5/30/06

## Don Bell (OSCT Chairperson)

## 5/30/06

Attendees:

| | |
|---|---|
| Don Lind (TMC) | Jerry Gropp (Lz) |
| Diane Korpi-Misich (Lz) | Jennifer K. (Lz) |
| Don Bell (Afton) | Thelma Marougy (Eaton) |
| Becky Grinfield (SWRI) | Sal Rea (Infineum) |

Three new lots of elastomers consisting of polyacrylate (PA 336), fluoroelastomer (FL 368), and nitrile (NI 331) were sent from the Test Engineering Inc. (TEI) to SWRI and Lz for initial elastomer testing as per the March 1, 2006 approved protocol for qualifying new elastomer batches.

At the 5/5/06 OSCT Task Force teleconference, the initial data set generated at both labs on the new elastomers was approved, so both labs completed reference oil testing each new batch of elastomer as per ASTM D5662 using only 6 coupons and 6 dumbells run in 2 test tubes per reference oils noted below:

| | Reference Oil |
|---|---|
| Polyacrylate PA 336 | TMC 160 & 161 |
| Fluoroelastomer FL 368 | TMC 160 & 161 |
| Nitrile NI331 | TMC 161 & 168 |

At the 5/30/06 OSCT Surveillance Panel meeting, the reference oil elastomer test data submitted by SWRI and Lz to the TMC is attached and was reviewed. The only data point falling outside the Shewhart severity limits (>5 years of data to generate the acceptance bands) was the %vol change for the nitrile seal with TMC 168. SWRI did not have data for polyacrylate in either reference oil due to hardness values being significantly different from the initial values. The test could not be repeated because the skeleton of the elastomer slab was disposed of. SWRI have depleted their inventory of polyacrylate and fluoroelastomer and Lz are out of polyacrylate as well. SWRI will repeat testing when additional polyacrylate elastomer is shipped from the Test Engineering Institute (TEI). In order for the labs to continue conducting candidate testing, a motion was made to approve these elastomer batches:

Motion by J. Gropp and seconded by B. Grinfield: Approve the new lots of elastomers effective 5/30/06 and closely monitor data to determine if acceptance

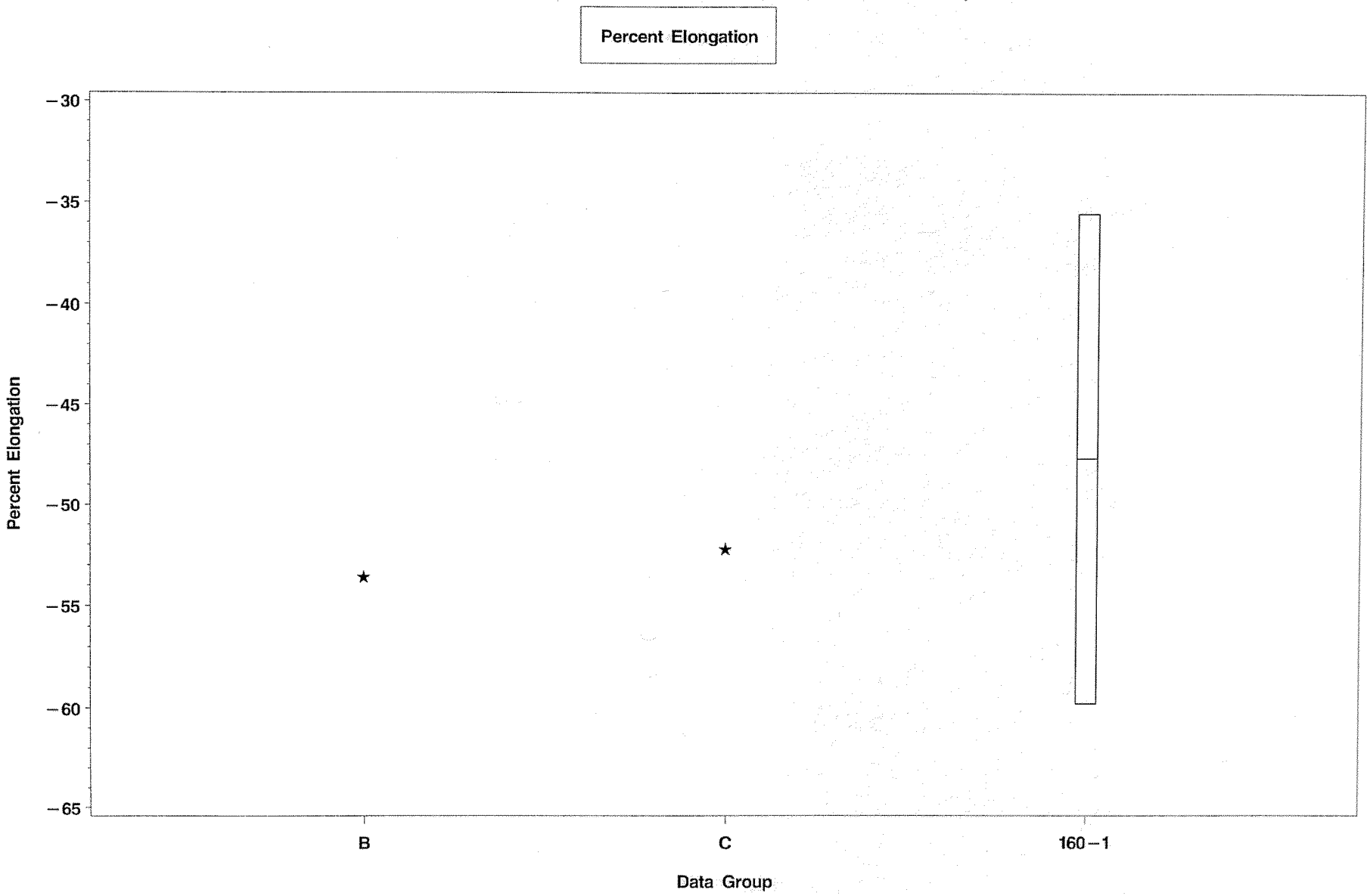
bands need adjusting, especially for the polyacrylate. Motion approved (4 approved/1 abstention/0 opposed).

Since the test data was limited, another motion was made to increase the testing protocol for new elastomer batches to gather more data.

Motion by D. Lind and seconded by B. Grinfield: Labs will conduct tests on the new batch of elastomer per ASTM D5662 using 12 coupons, not 6 coupons. Motion approved (5 approved/0 abstentions/0 opposed).

Clayton Knight from the TEI will be added to the OSCT Surveillance Panel to make sure the TEI is well informed of OSCT issues. The labs will coordinate efforts earlier in the new elastomer batch process to make sure that the inventory of elastomers is well maintained to avoid depletion.

# OSCT (FL)
## Reference Oil 160 – 1
## New Elastomer Results VS Current Shewhart Severity Limits



# OSCT (FL)
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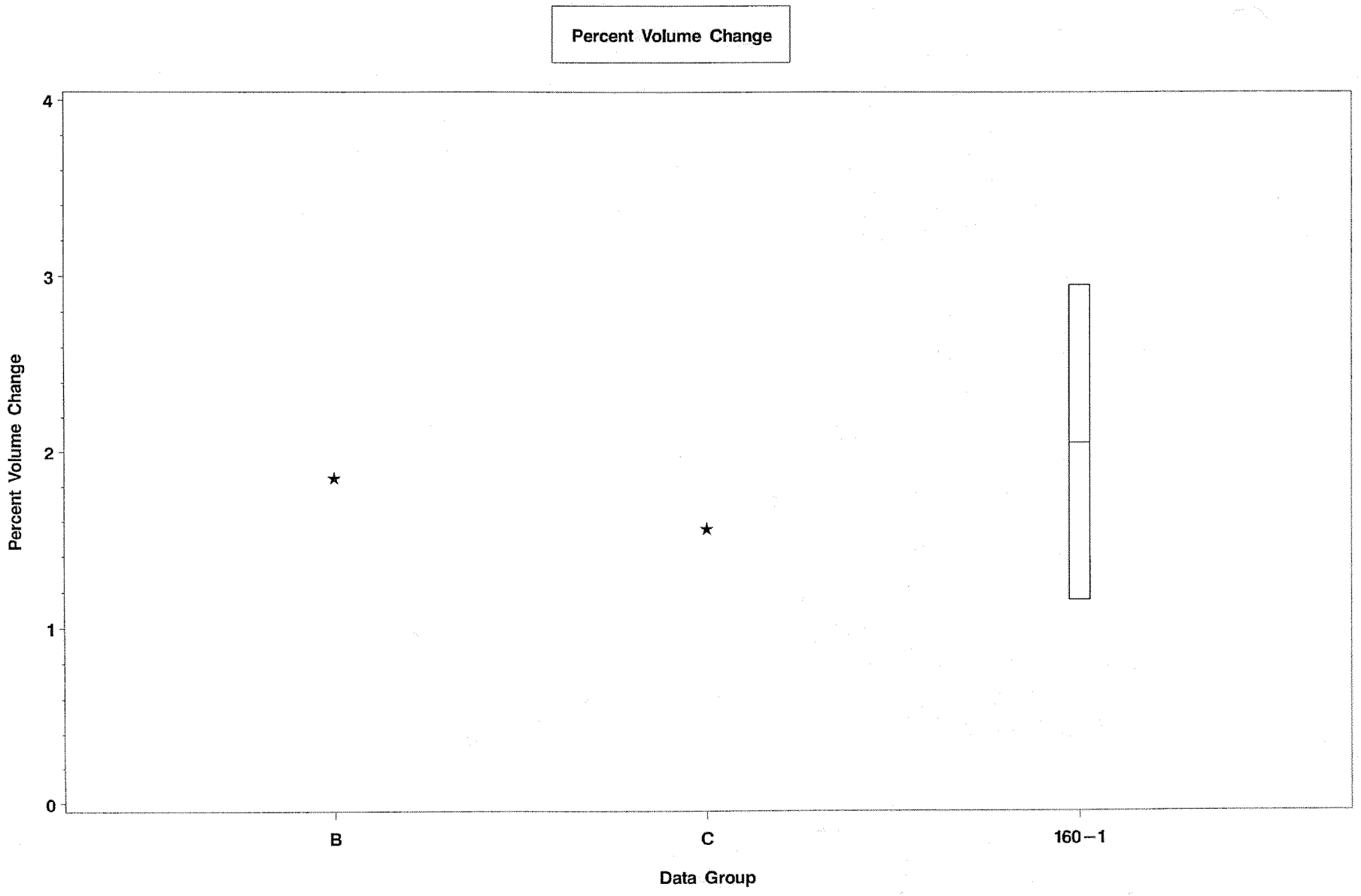
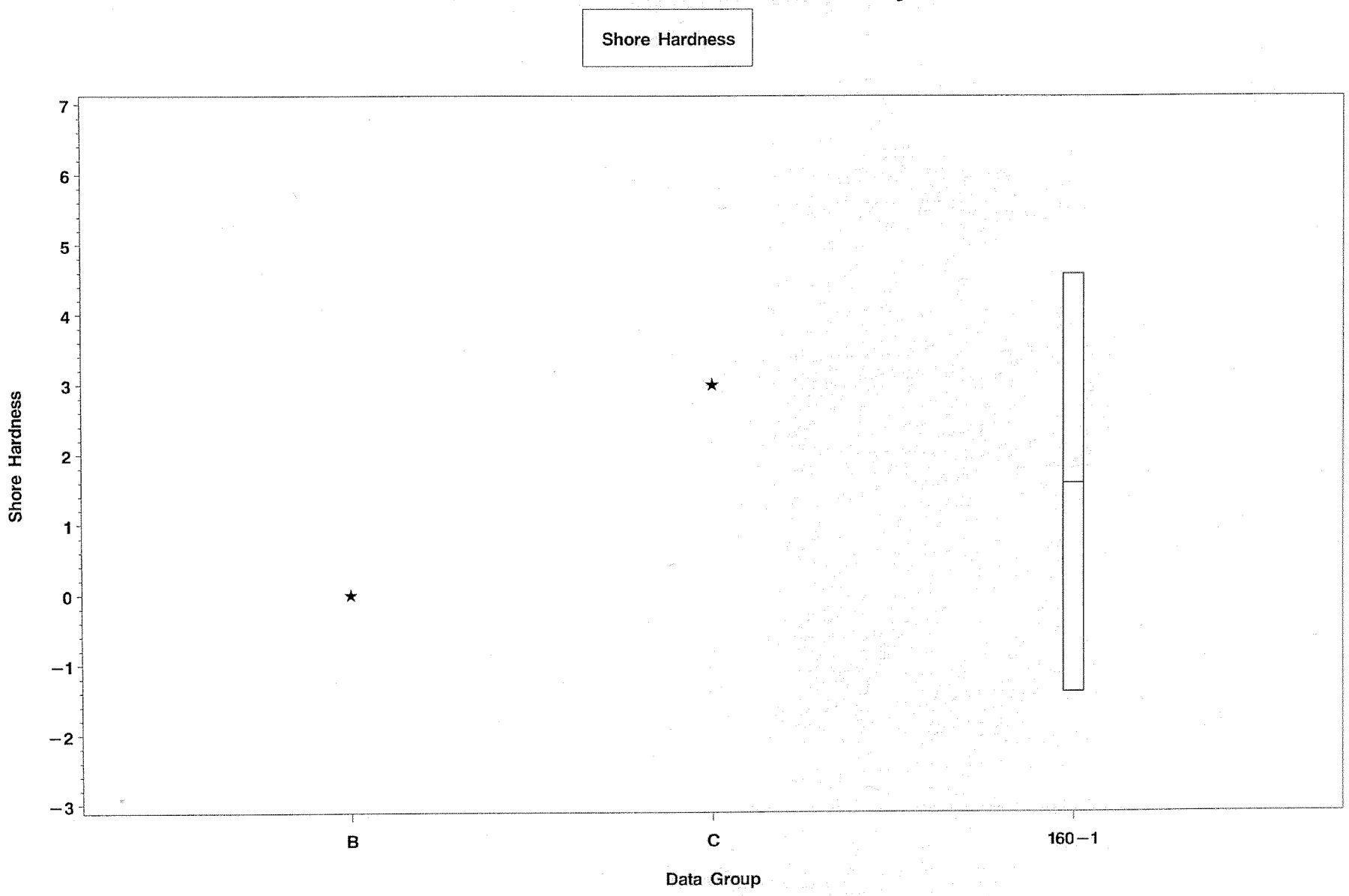
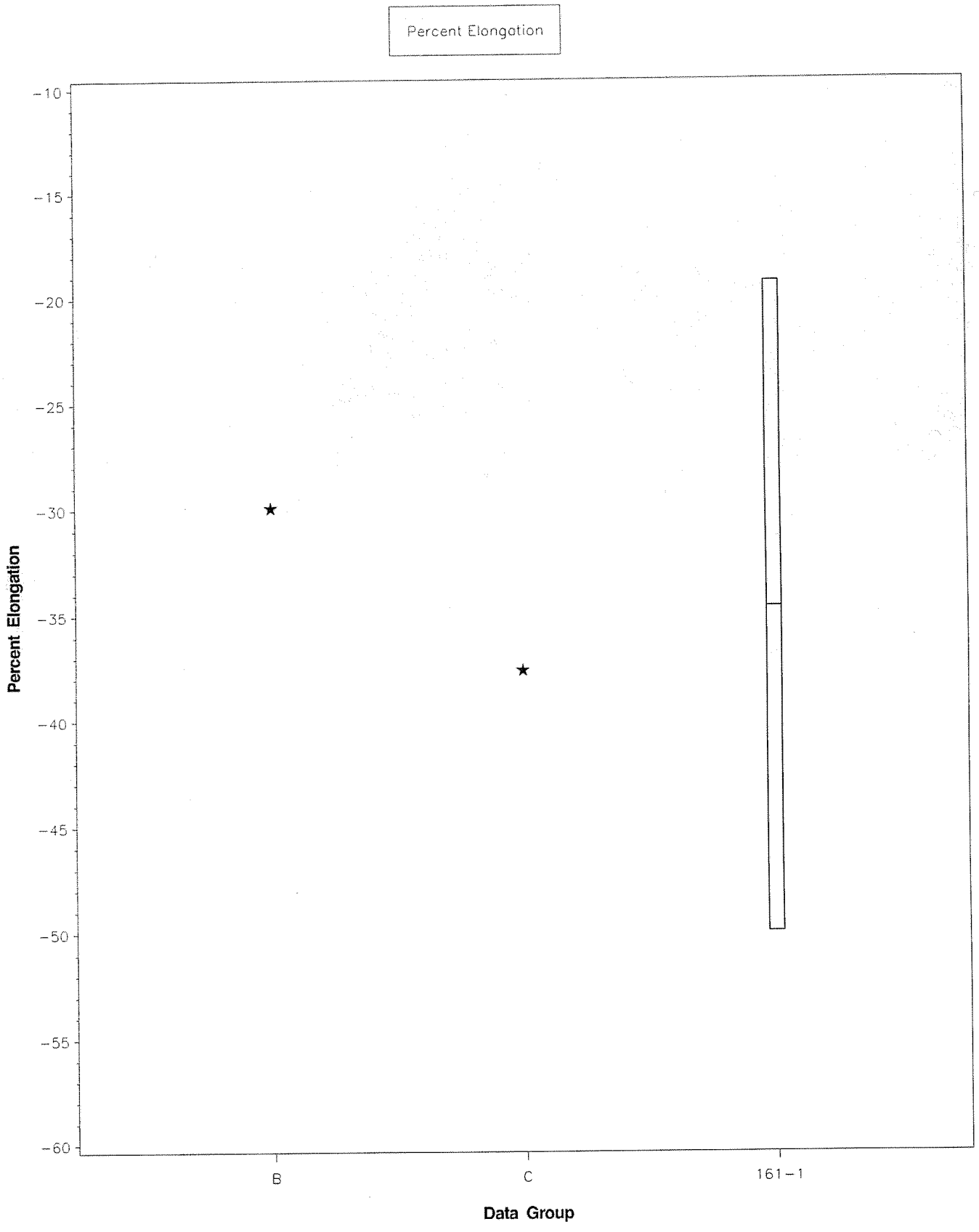


# OSCT (FL)
## Reference Oil 160−1
## New Elastomer Results VS Shewhart Severity Limits



OSCT (FL)
Reference Oil 161-1
New Elastomer Results VS Shewhart Severity Limits



# OSCT (FL)
## Reference Oil 161-1
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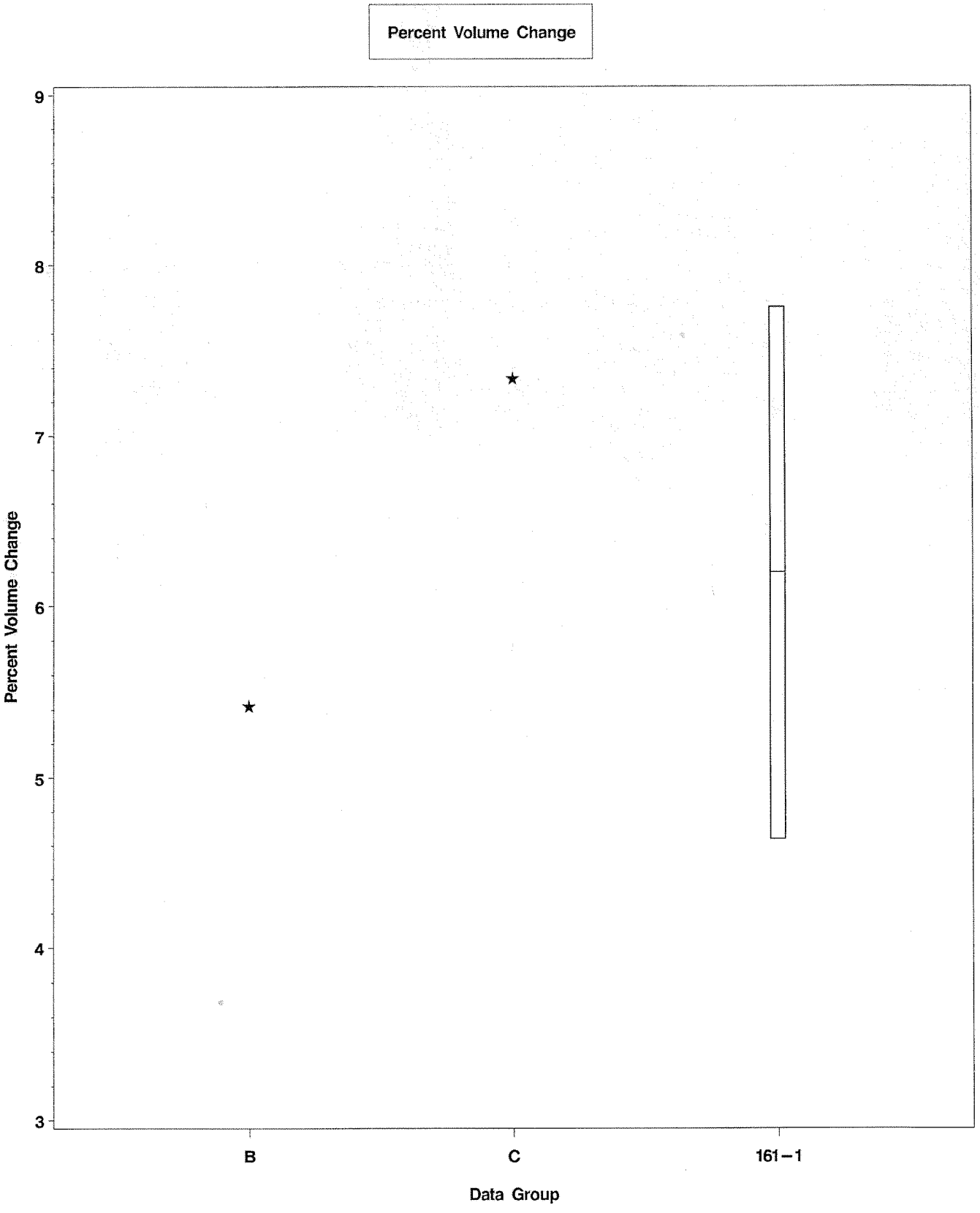

# OSCT (FL)
## Reference Oil 161-1
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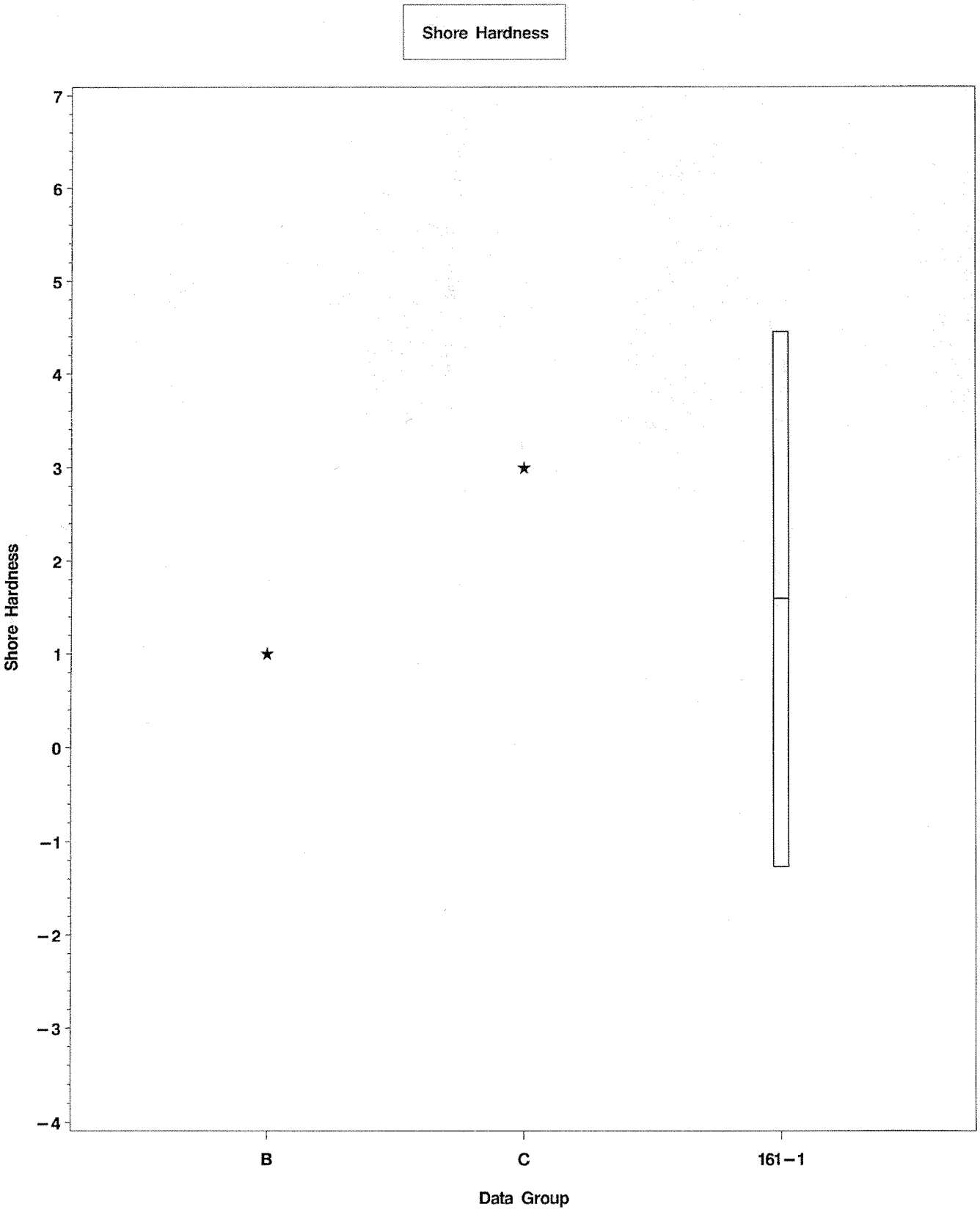
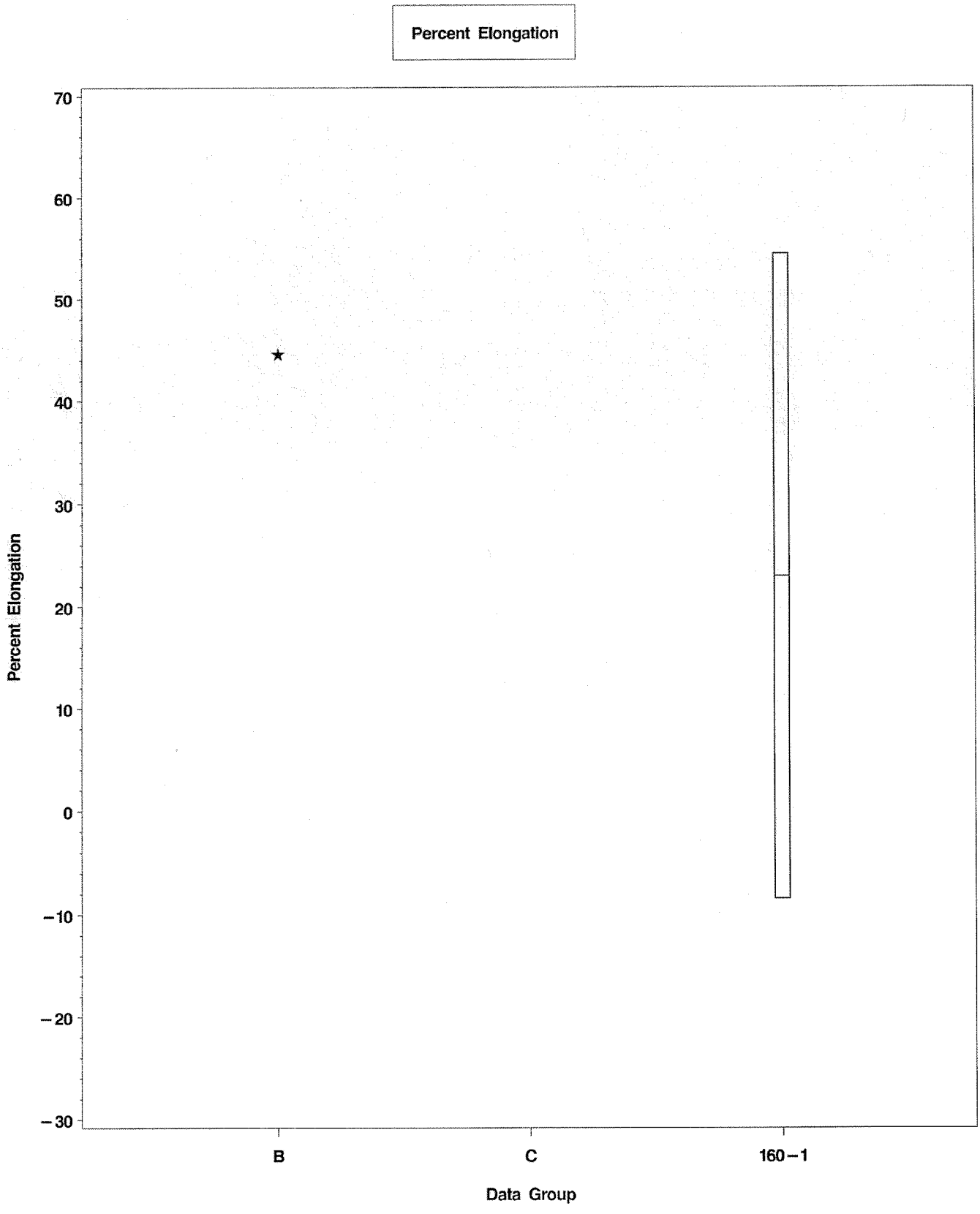


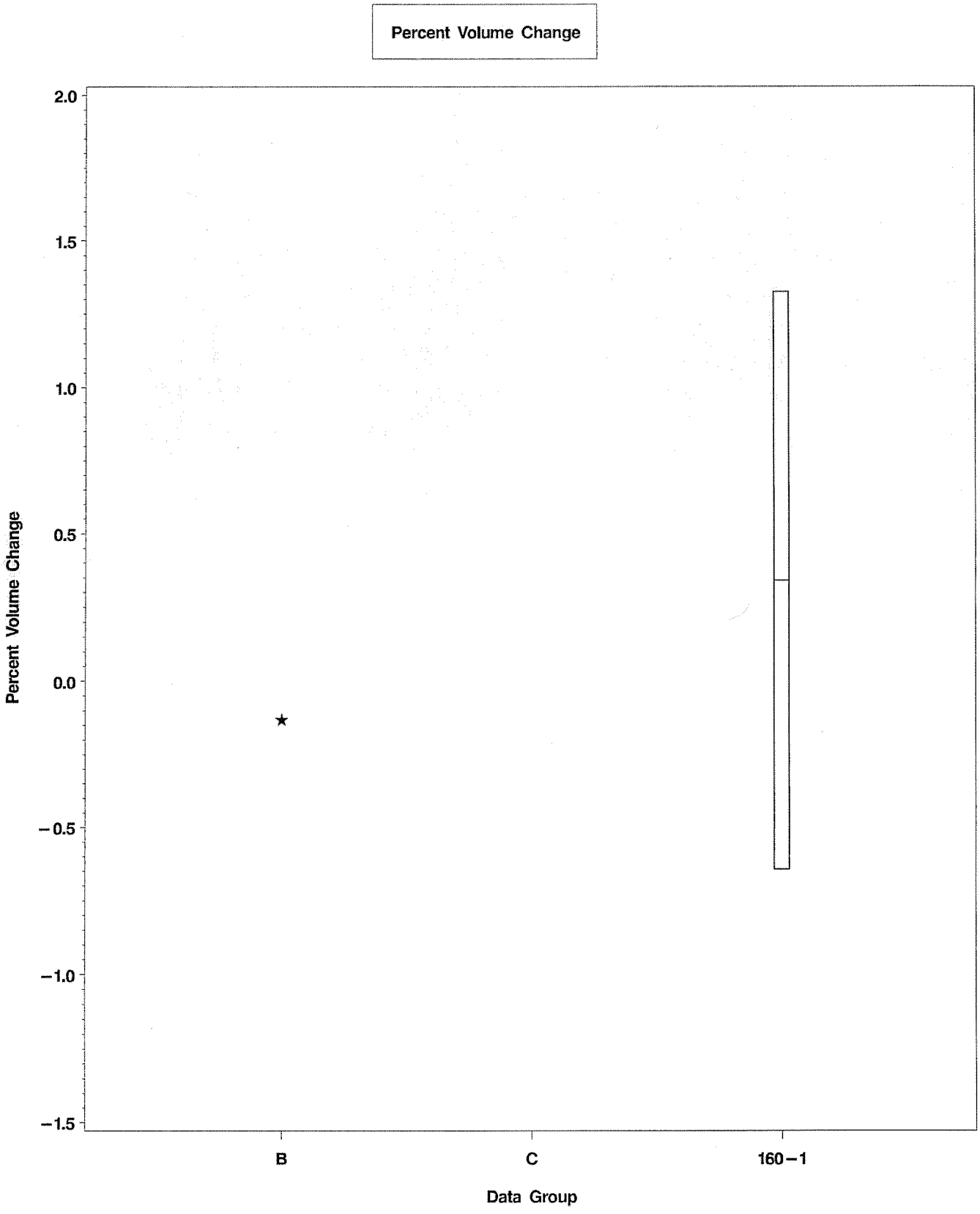
# OSCT (PA)
## Reference Oil 160−1
## New Elastomer Results VS Shewhart Severity Limits



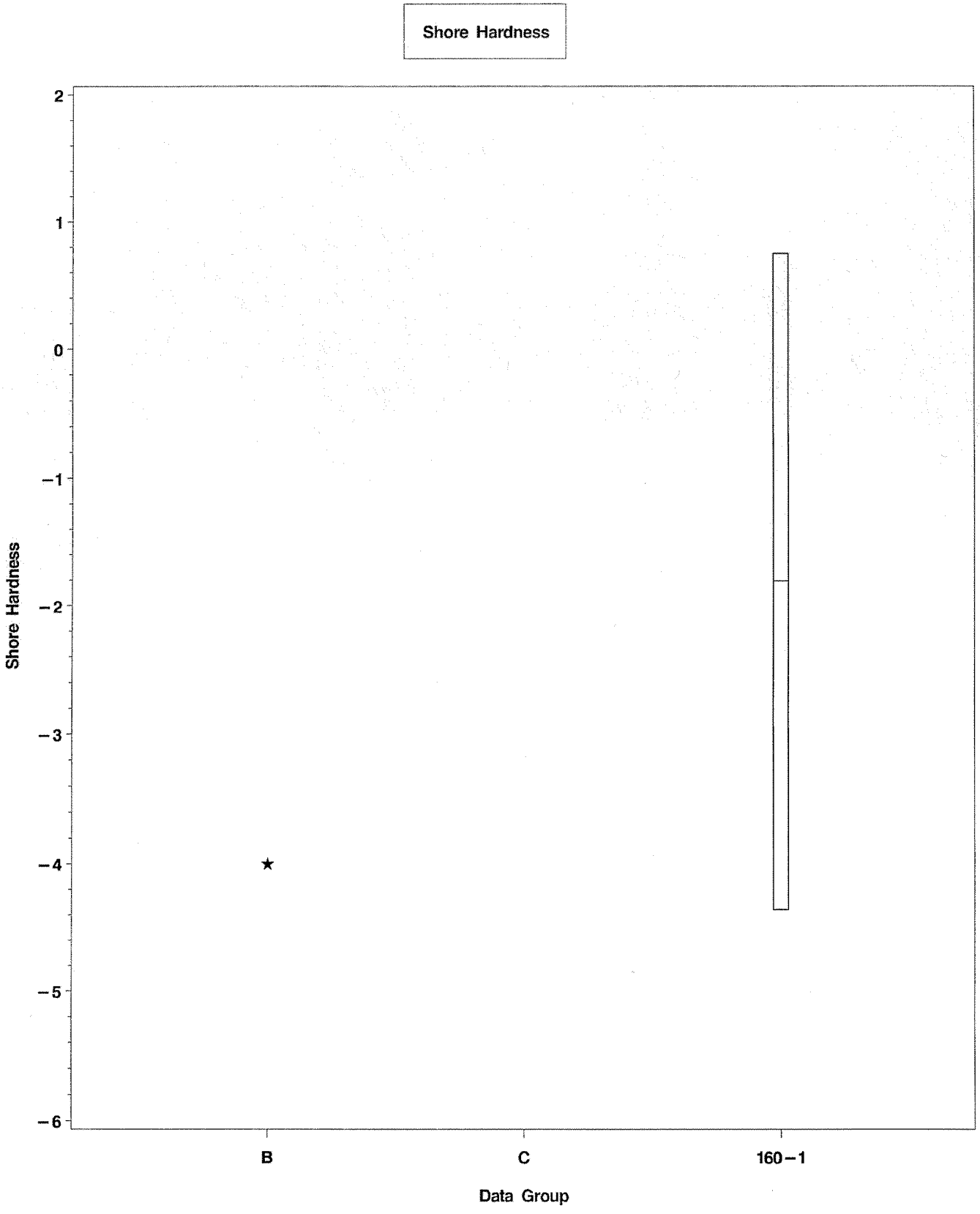
# OSCT (PA)

## Reference Oil 160−1

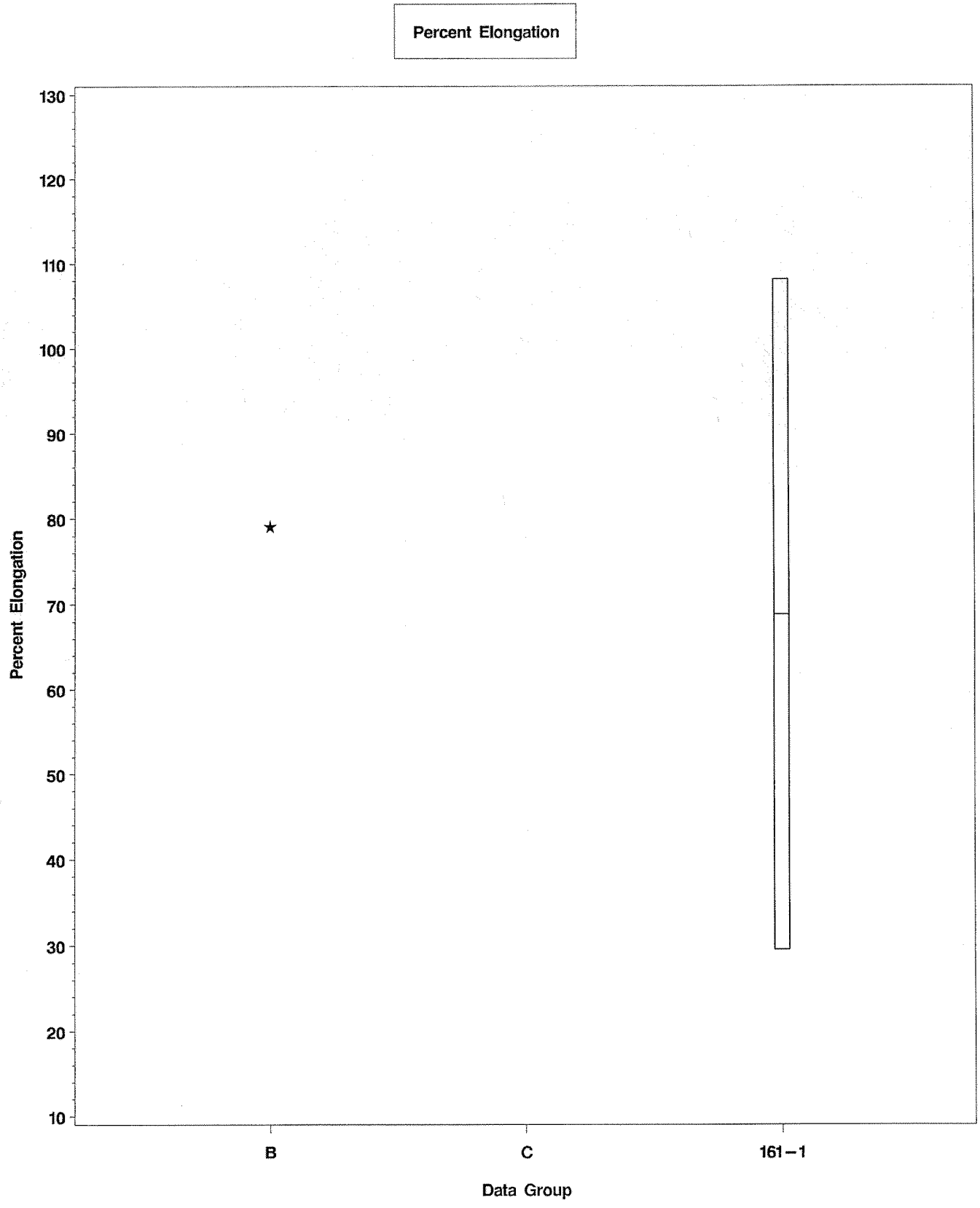
## New Elastomer Results VS Shewhart Severity Limits



# OSCT (PA)
## Reference Oil 160−1
## New Elastomer Results VS Shewhart Severity Limits



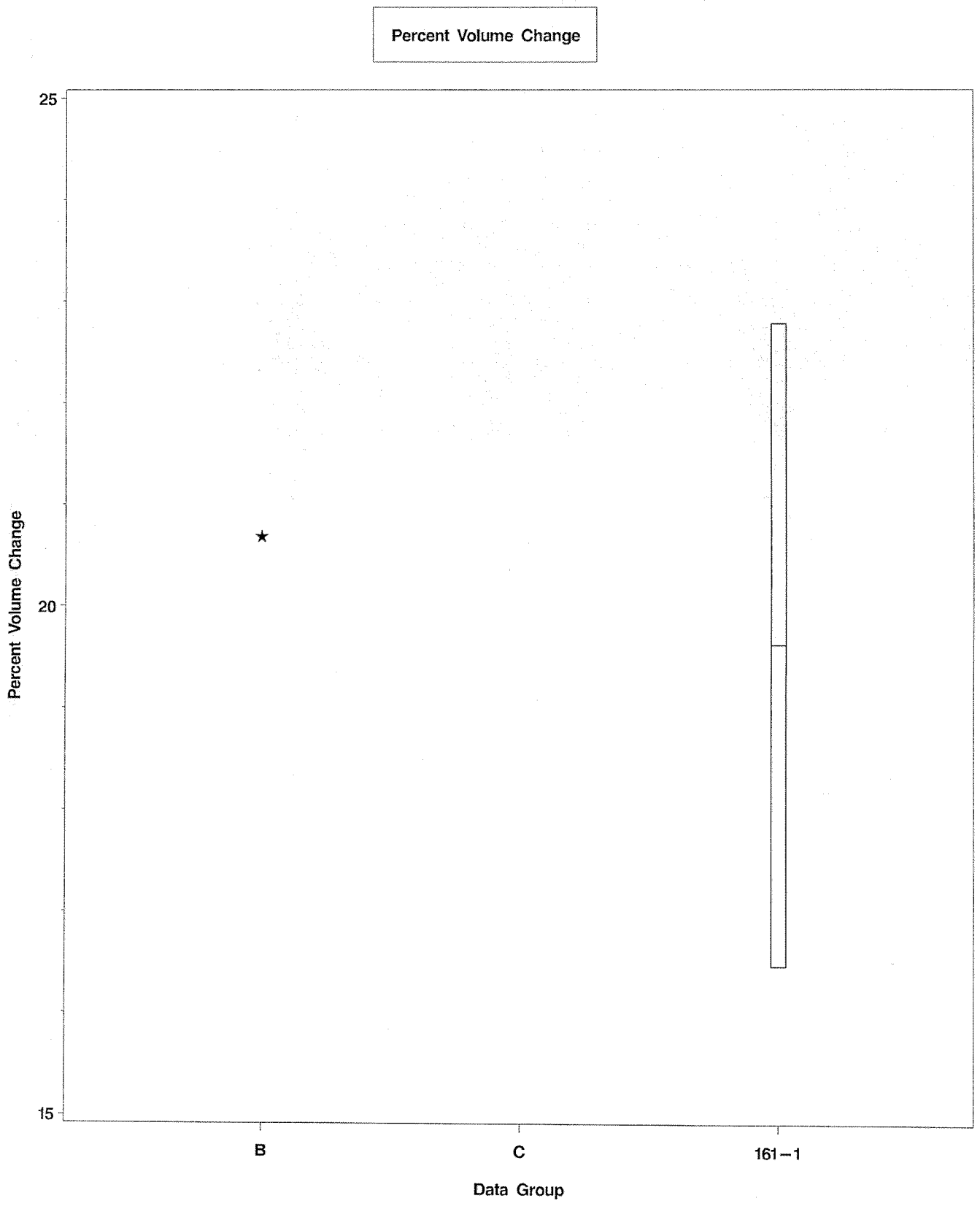
# OSCT (PA)
## Reference Oil 161-1
## New Elastomer Results VS Shewhart Severity Limits



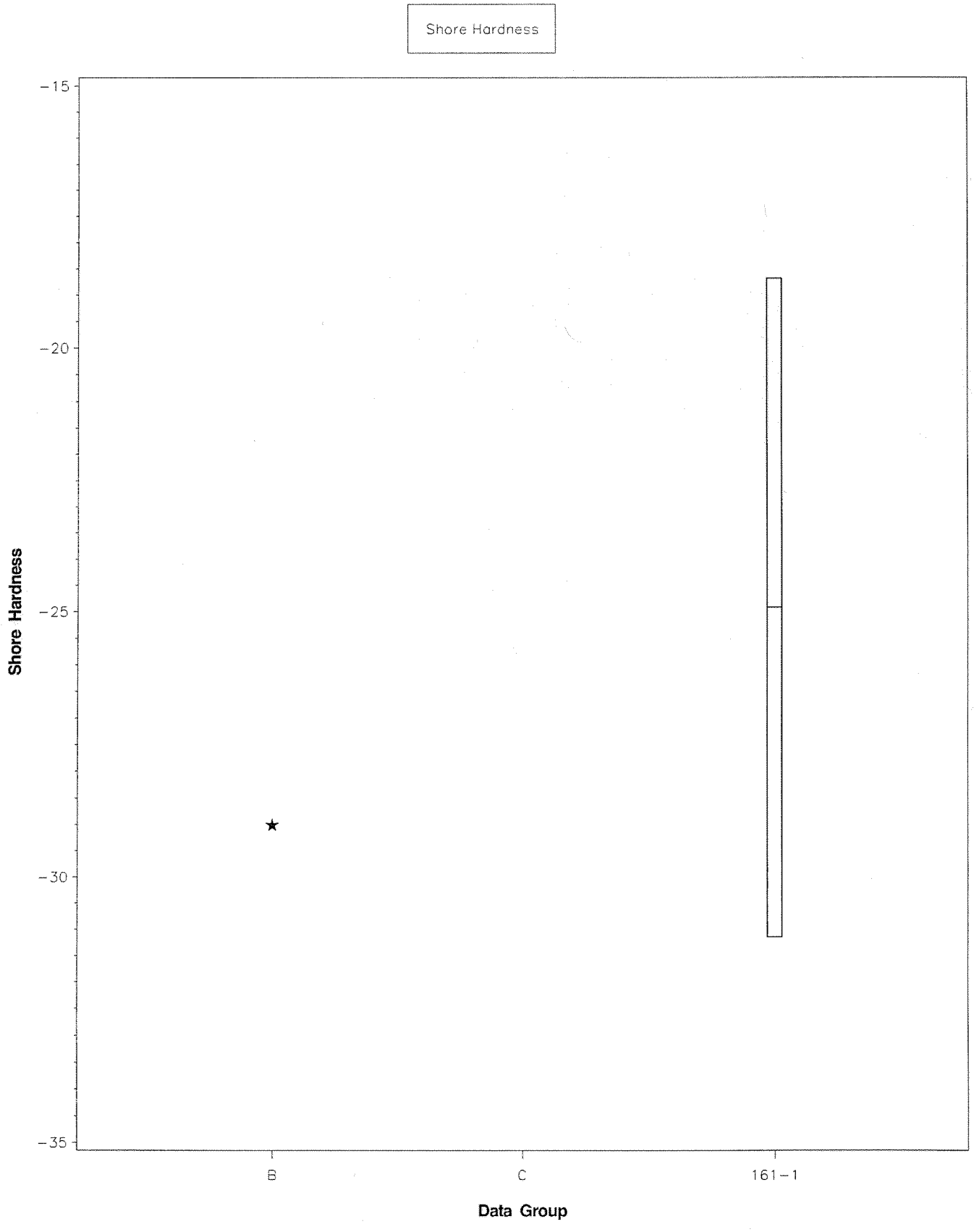
# OSCT (PA)

## Reference Oil 161 – 1

## New Elastomer Results VS Shewhart Severity Limits



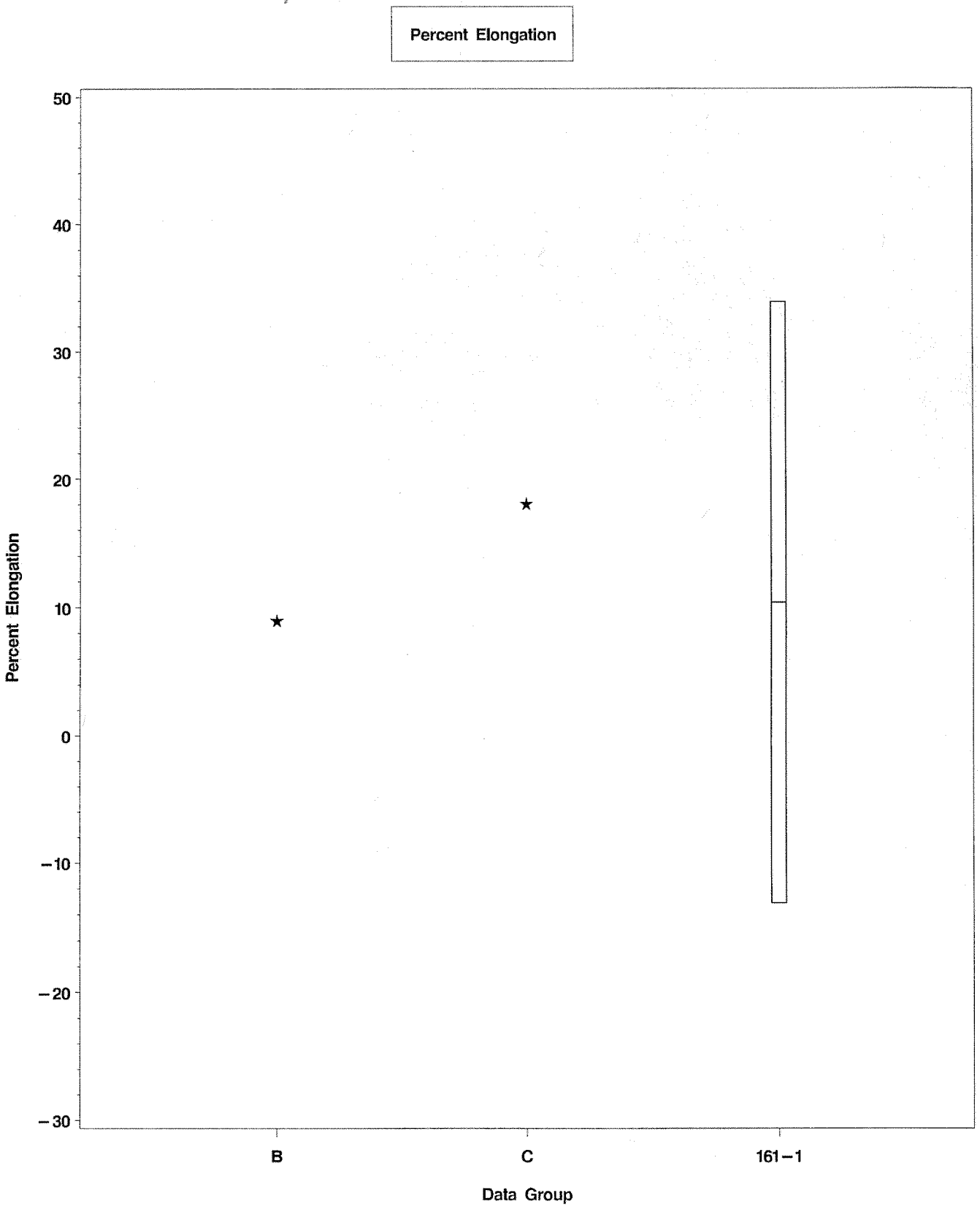
OSCT (PA)
Reference Oil 161-1
New Elastomer Data VS Shewhart Severity Limits



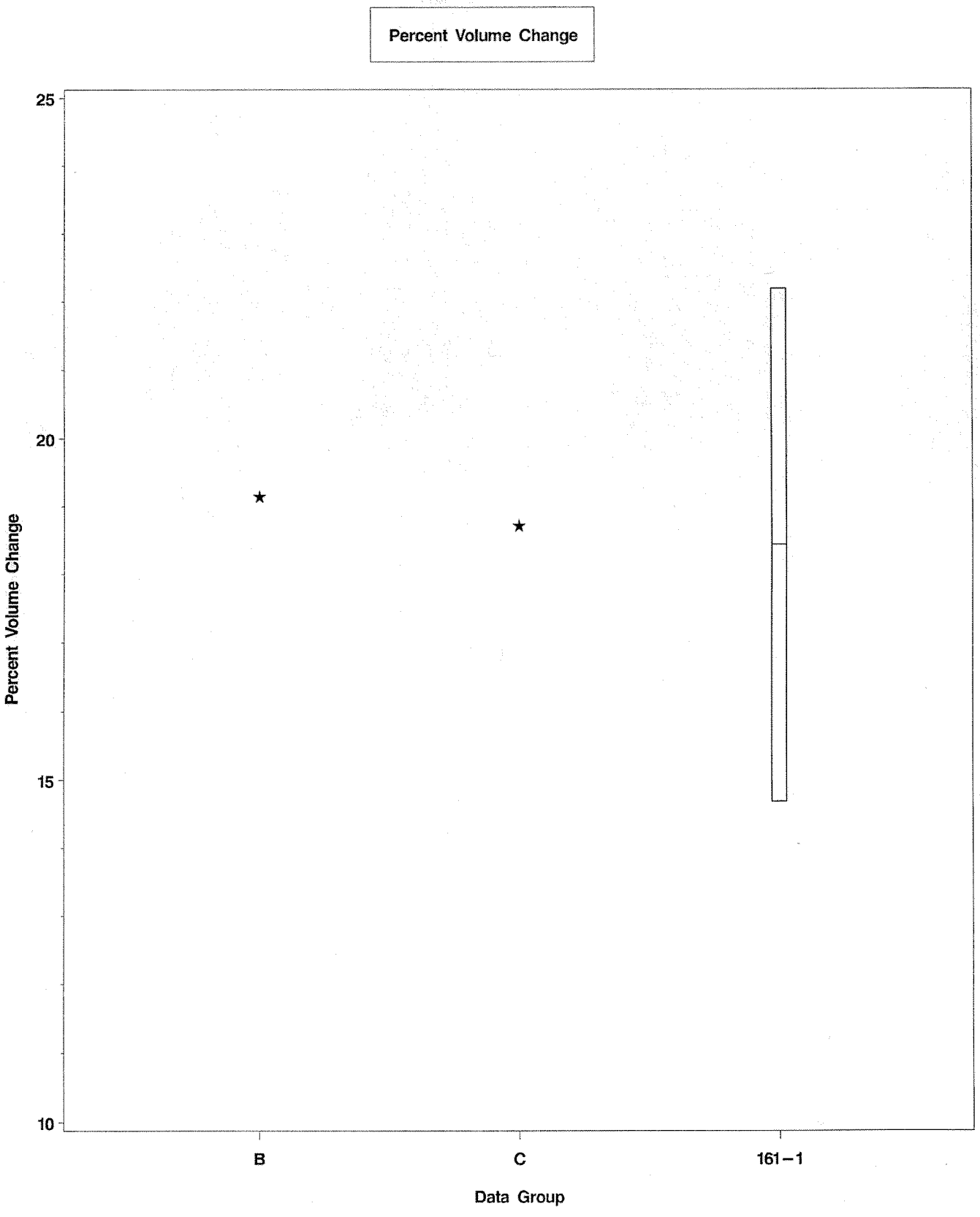
# OSCT (NI)

## Reference Oil 161-1

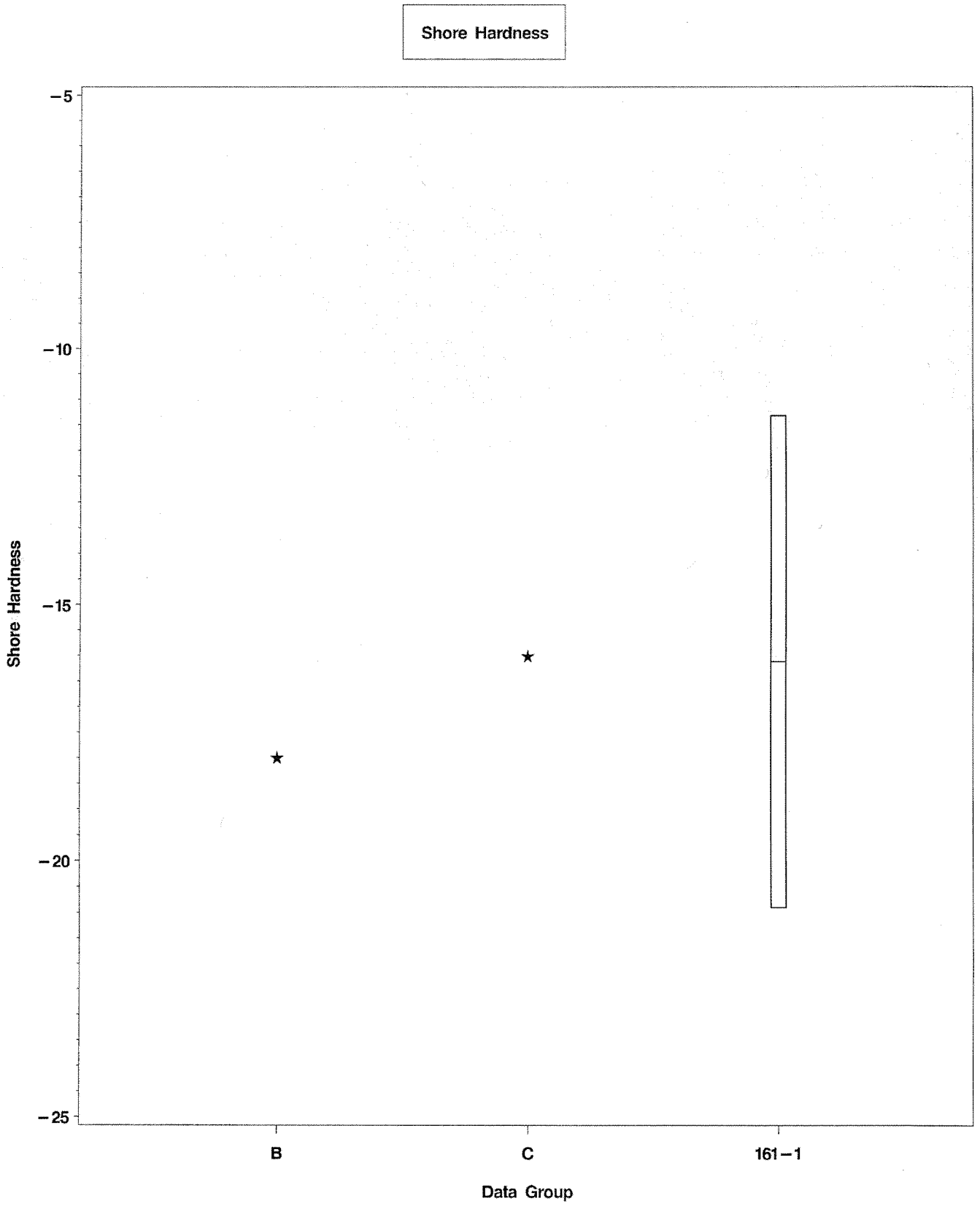
## New Elastomer Results VS Shewhart Severity Limits



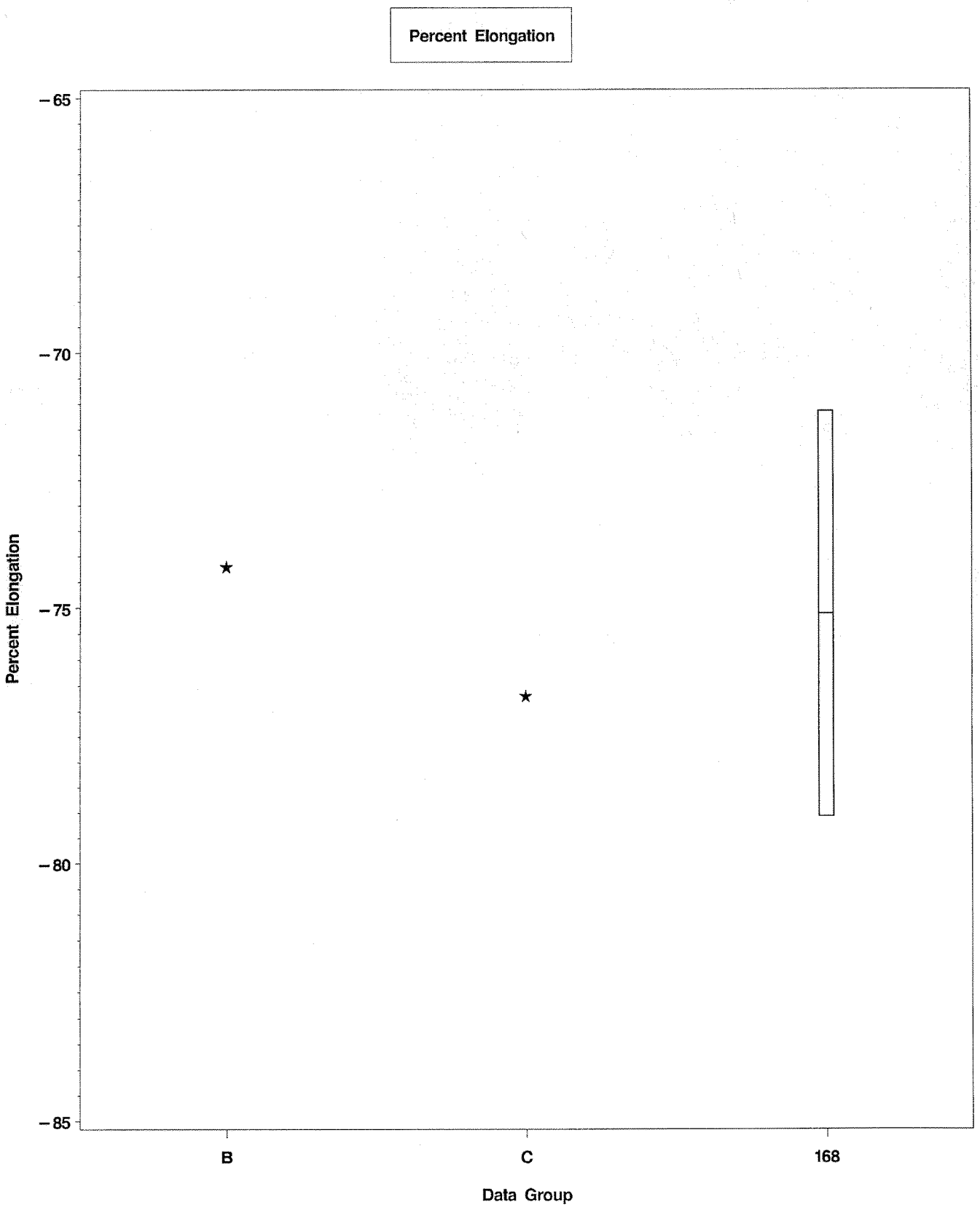
# OSCT (NI)
## Reference Oil 161-1
## New Elastomer Results VS Shewhart Severity Limits



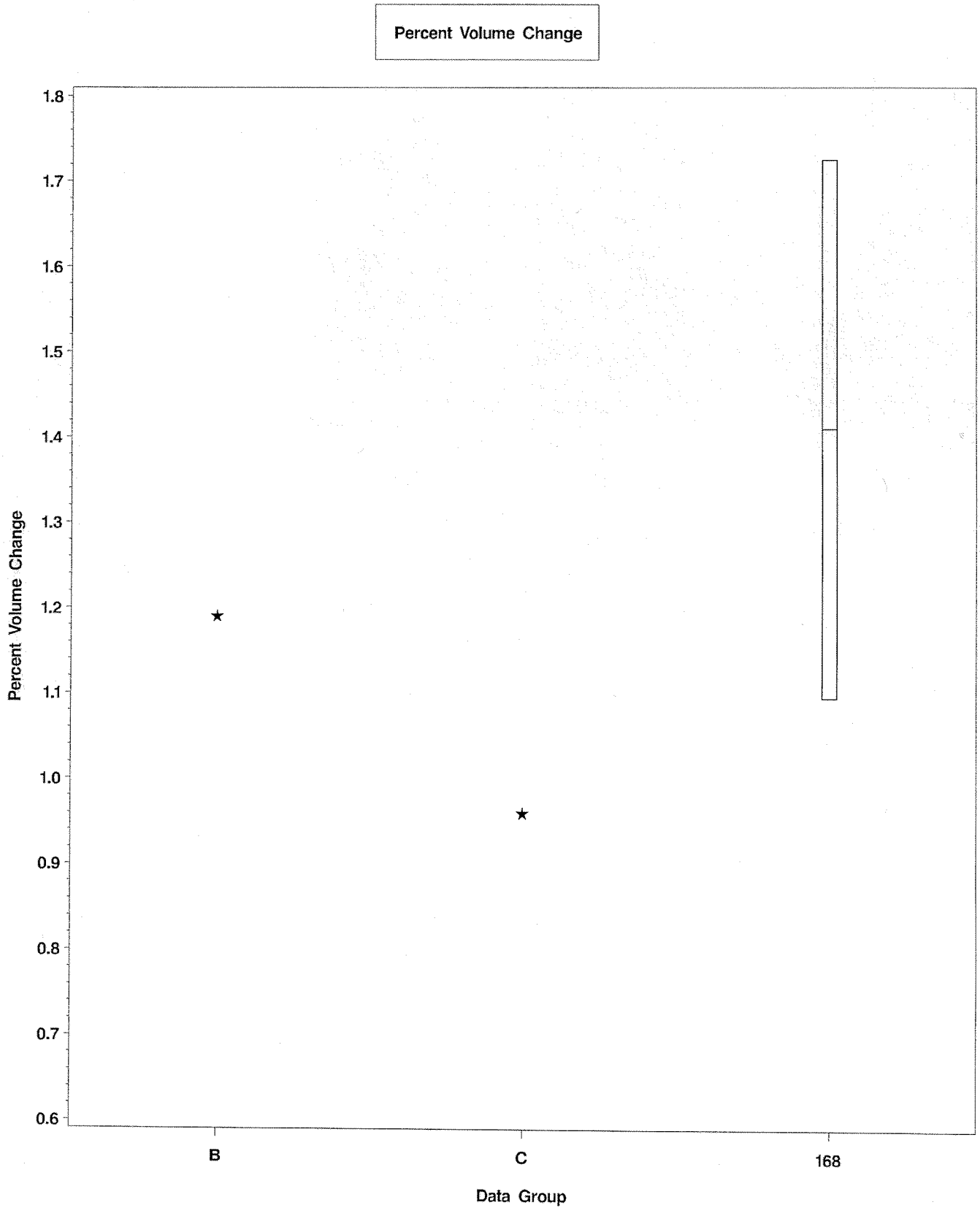
# OSCT (NI)
## Reference Oil 161-1
## New Elastomer Results VS Shewhart Severity Limits



# OSCT (NI)
## Reference Oil 168
## New Elastomer Results VS and Shewhart Severity Limits



# OSCT (NI)
## Reference Oil 168
## New Elastomer Results VS Shewhart Severity Limits



OSCT (NI)
Reference Oil 168
New Elastomer Results VS and Shewhart Severity Limits