



Test Monitoring Center

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Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 04-063
DATE: October 4, 2004
TO: OSCT Surveillance Panel
FROM: Donald Lind
SUBJECT: Reference Oil Targets

At the August 25, 2004 OSCT Surveillance Panel meeting, the panel approved targets for reference oils 160-1, 161-1 and 162. The approved reference oil test targets are shown in the tables below. The test target data set and shewhart severity limit charts are attached. The K value for the charts is 2.2.

Reference Oil 161-1				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	PA	144	68.88	17.850
Shore Hardness	PA	144	-24.9	2.83
Percent Volume Change	PA	144	19.624	1.4348

Reference Oil 160-1				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	PA	144	23.04	14.289
Shore Hardness	PA	144	-1.8	1.16
Percent Volume Change	PA	144	0.343	0.4473

Reference Oil 161-1				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	FL	141	-34.57	6.989
Shore Hardness	FL	141	1.6	1.30
Percent Volume Change	FL	141	6.199	0.7080

Reference Oil 160-1				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	FL	141	-47.65	5.506
Shore Hardness	FL	141	1.6	1.36
Percent Volume Change	FL	141	2.053	0.4075

Reference Oil 161-1				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	NI	119	10.43	10.691
Shore Hardness	NI	119	16.1	2.18
Percent Volume Change	NI	119	18.444	1.7057

Reference Oil 162				
Parameter	Elastomer	N	Mean	Standard Deviation
Percent Elongation	NI	119	-65.35	7.330
Shore Hardness	NI	119	2.0	2.03
Percent Volume Change	NI	119	2.460	1.5821

These targets are effective for all tests completed on or after September 30, 2004.

DML/dml

Attachments

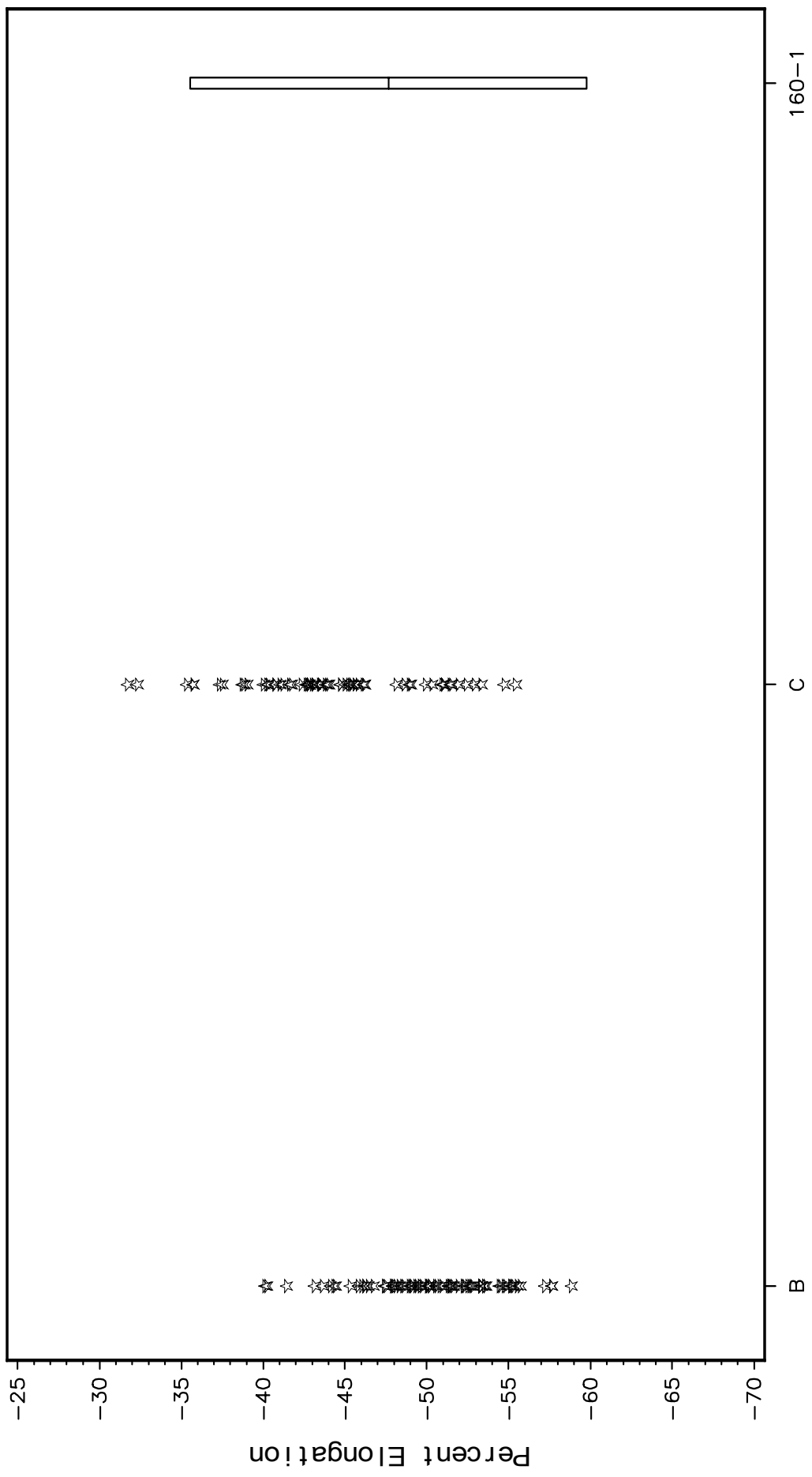
c: Frank Farber, TMC
John L. Zalar, TMC

<ftp://ftp.astmtmc.cmu.edu/docs/gears/osct/memos/mem04-063.pdf>

Distribution: Electronic Mail

OSCT (FL)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

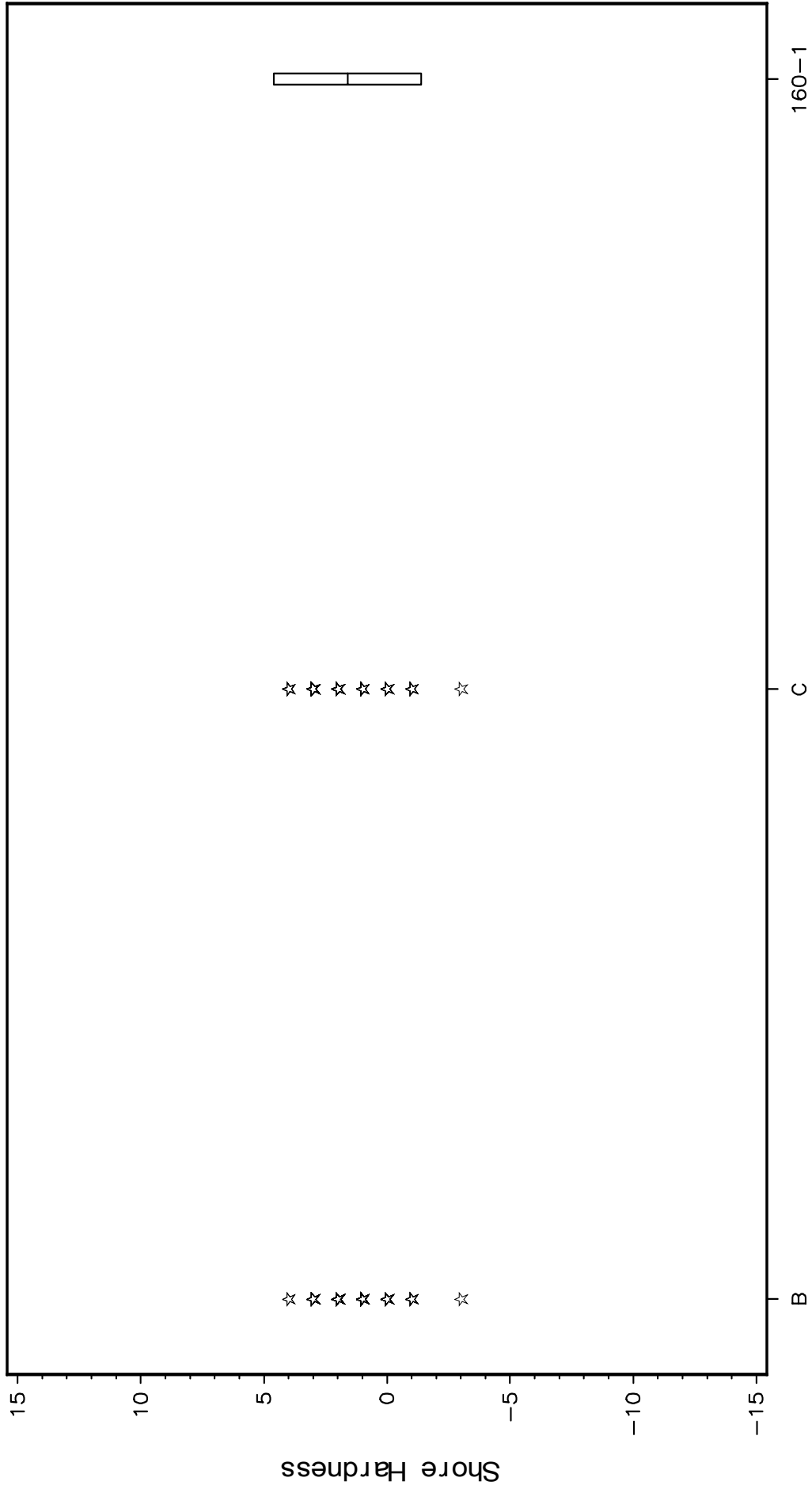
Percent Elongation



Data Group

OSCT (FL)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

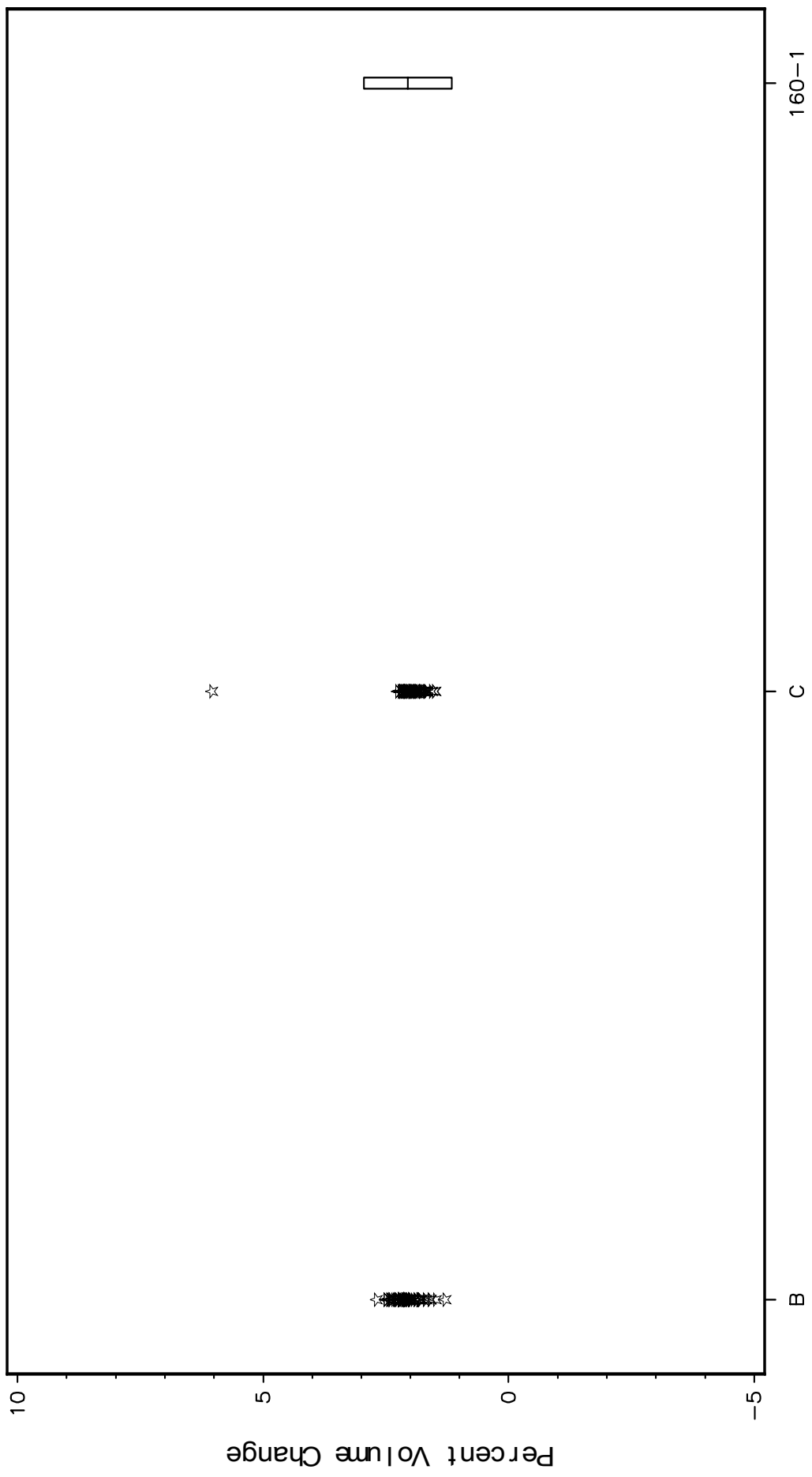
Shore Hardness



Data Group

OSCT (FL)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

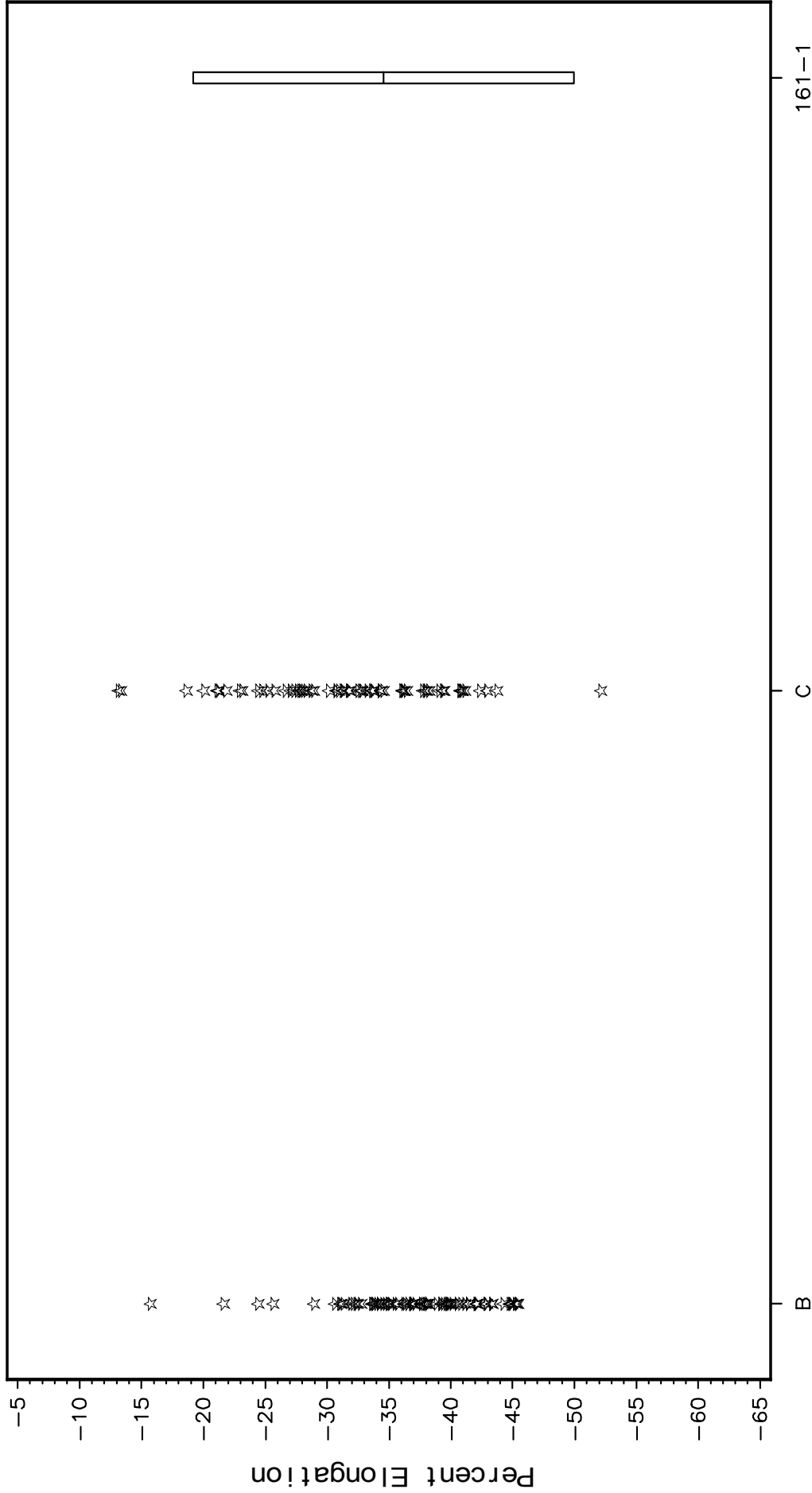
Percent Volume Change



Data Group

OSCT (FL)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

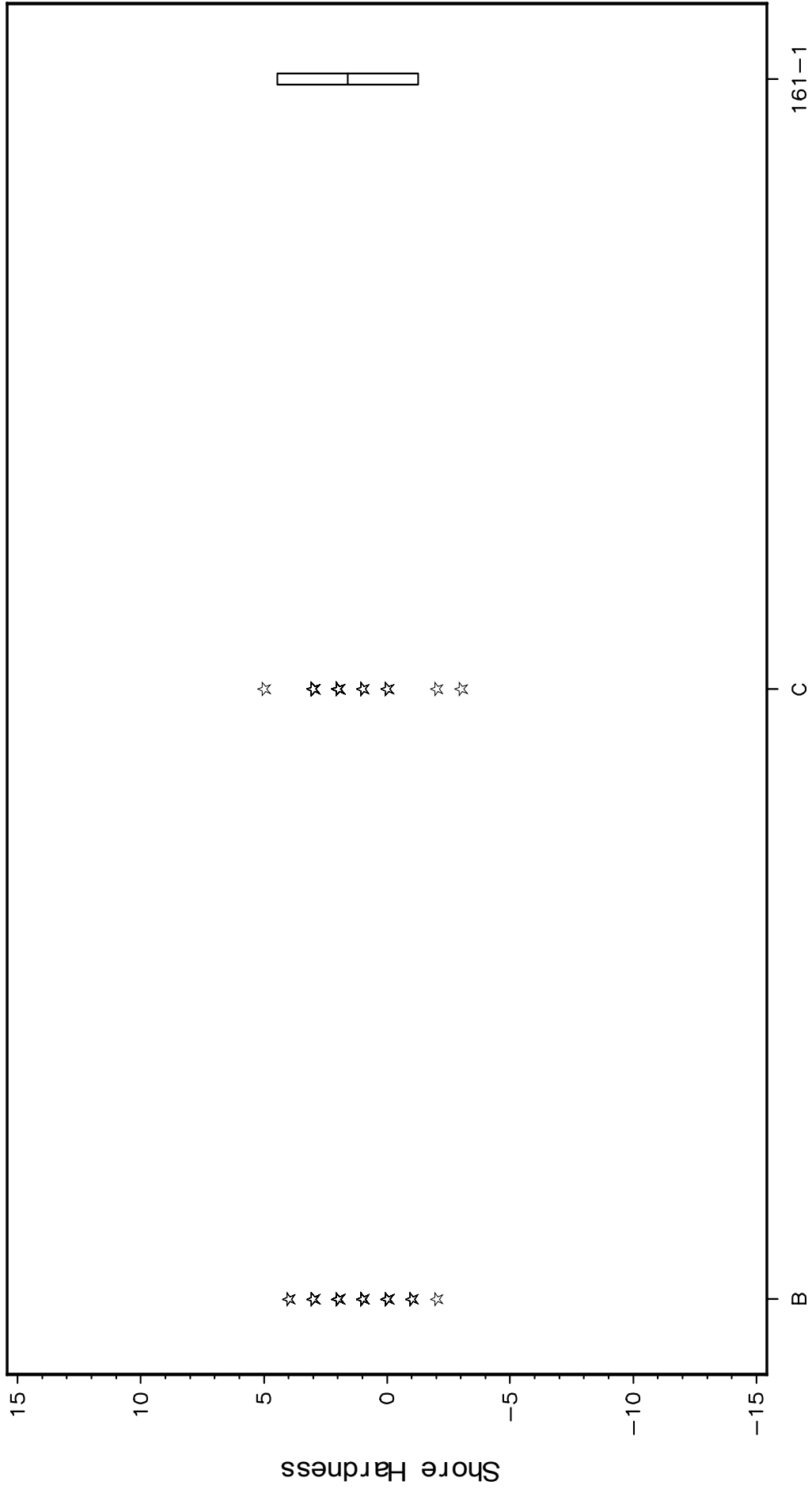
Percent Elongation



Data Group

OSCT (FL)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

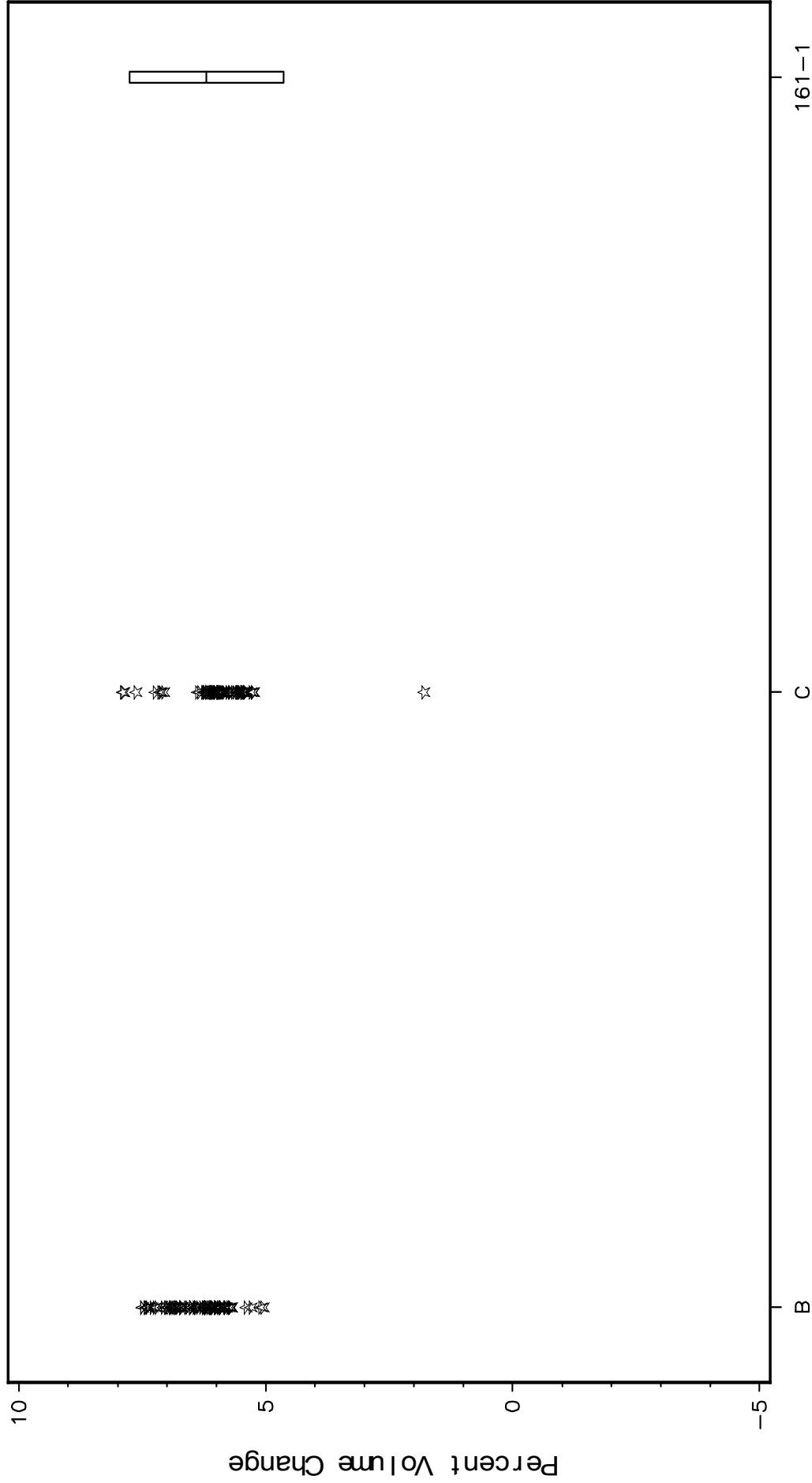
Shore Hardness



Data Group

OSCT (FL)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

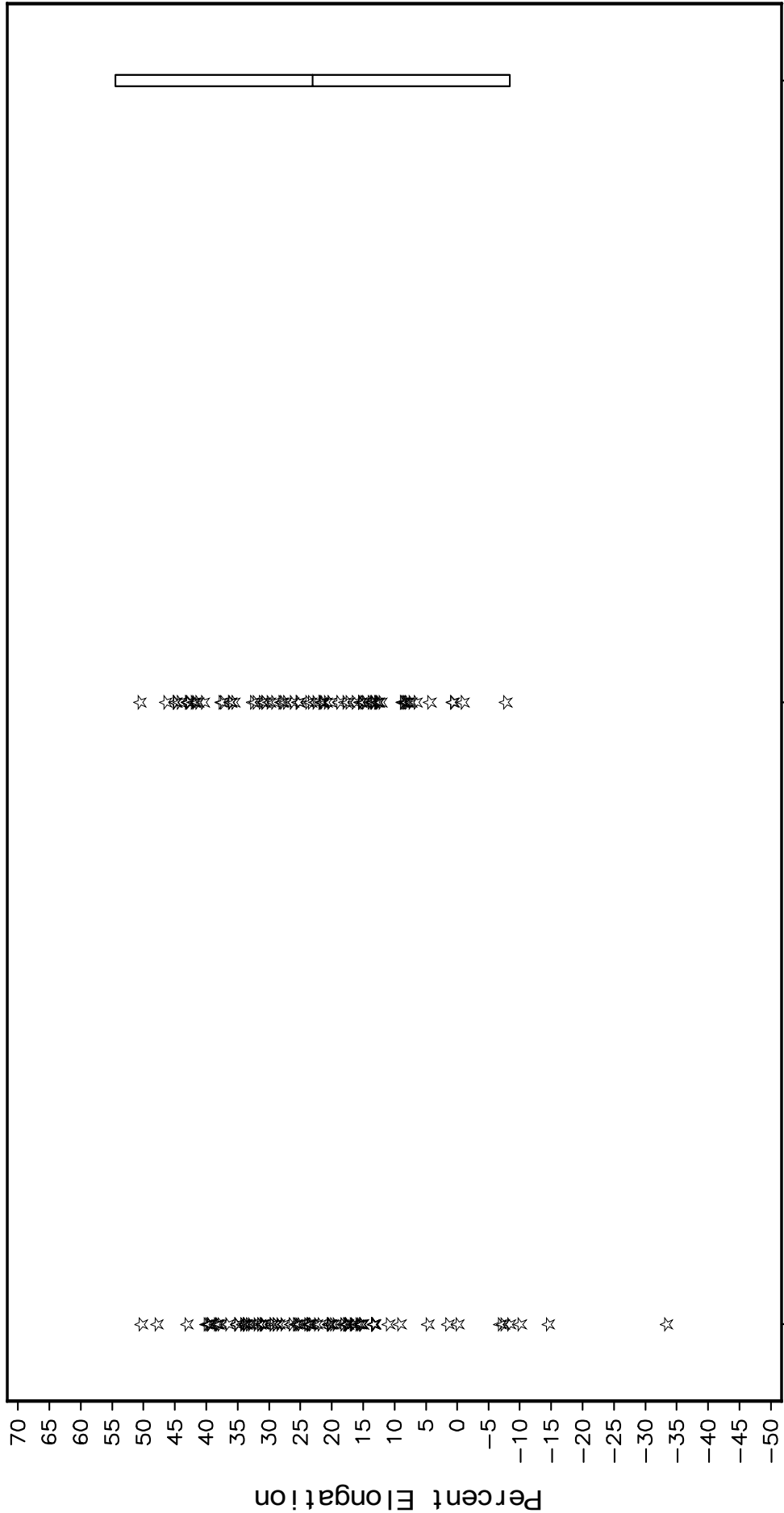
Percent Volume Change



Data Group

OSCT (PA)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

Percent Elongation



B

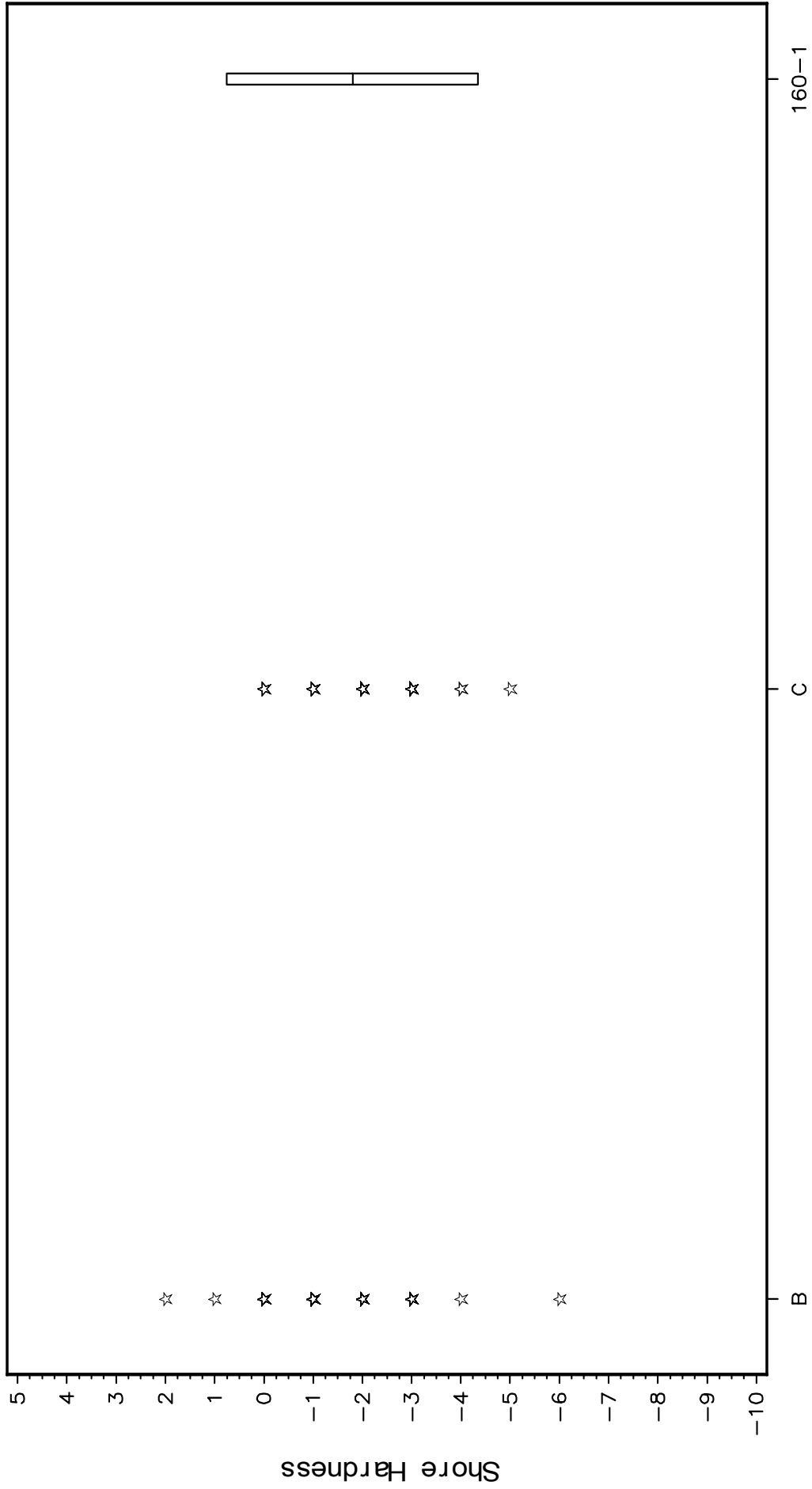
C

160-1

Data Group

OSCT (PA)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

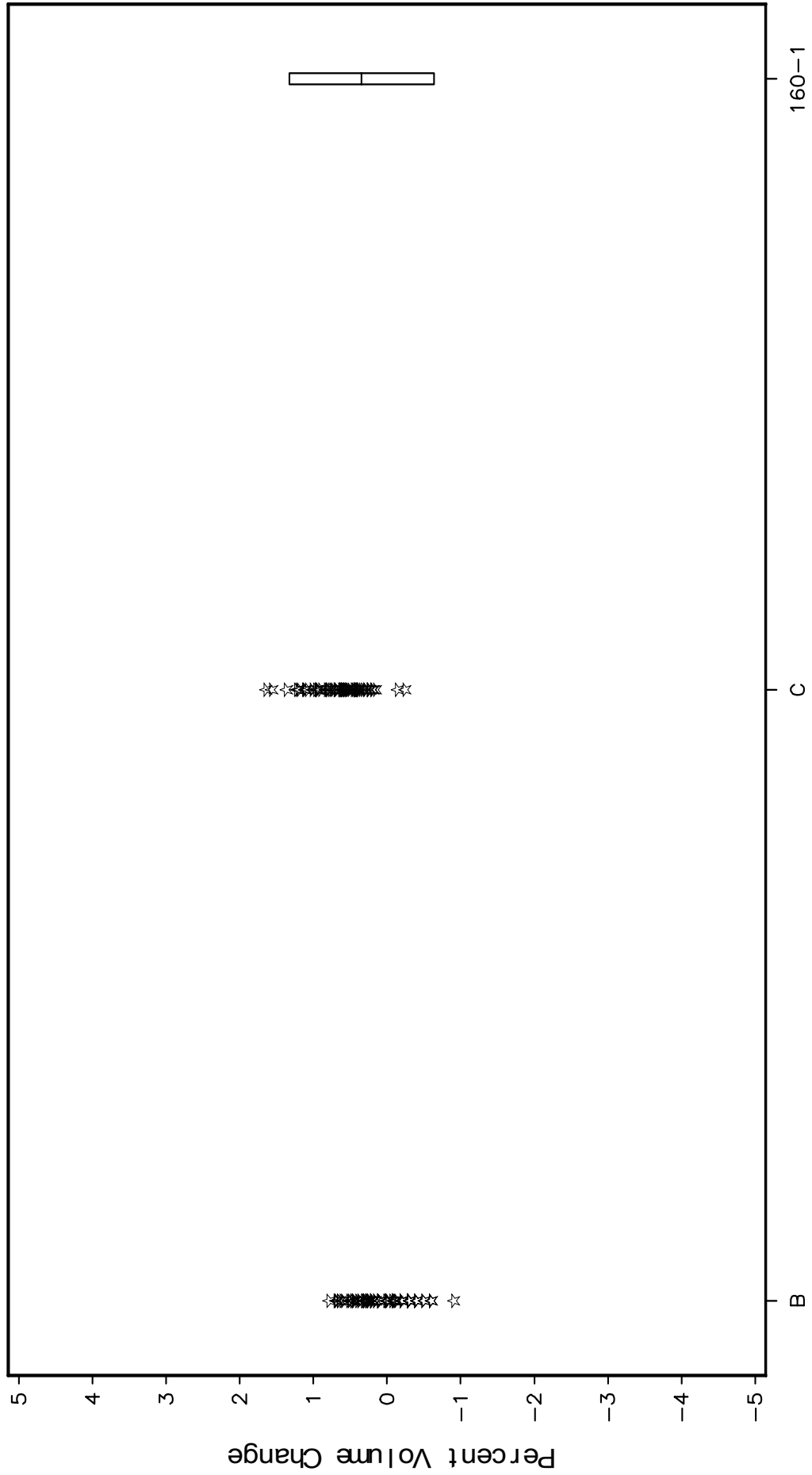
Shore Hardness



Data Group

OSCT (PA)
Reference Oil 160-1
Test Target Data Set and Shewart Severity Limits

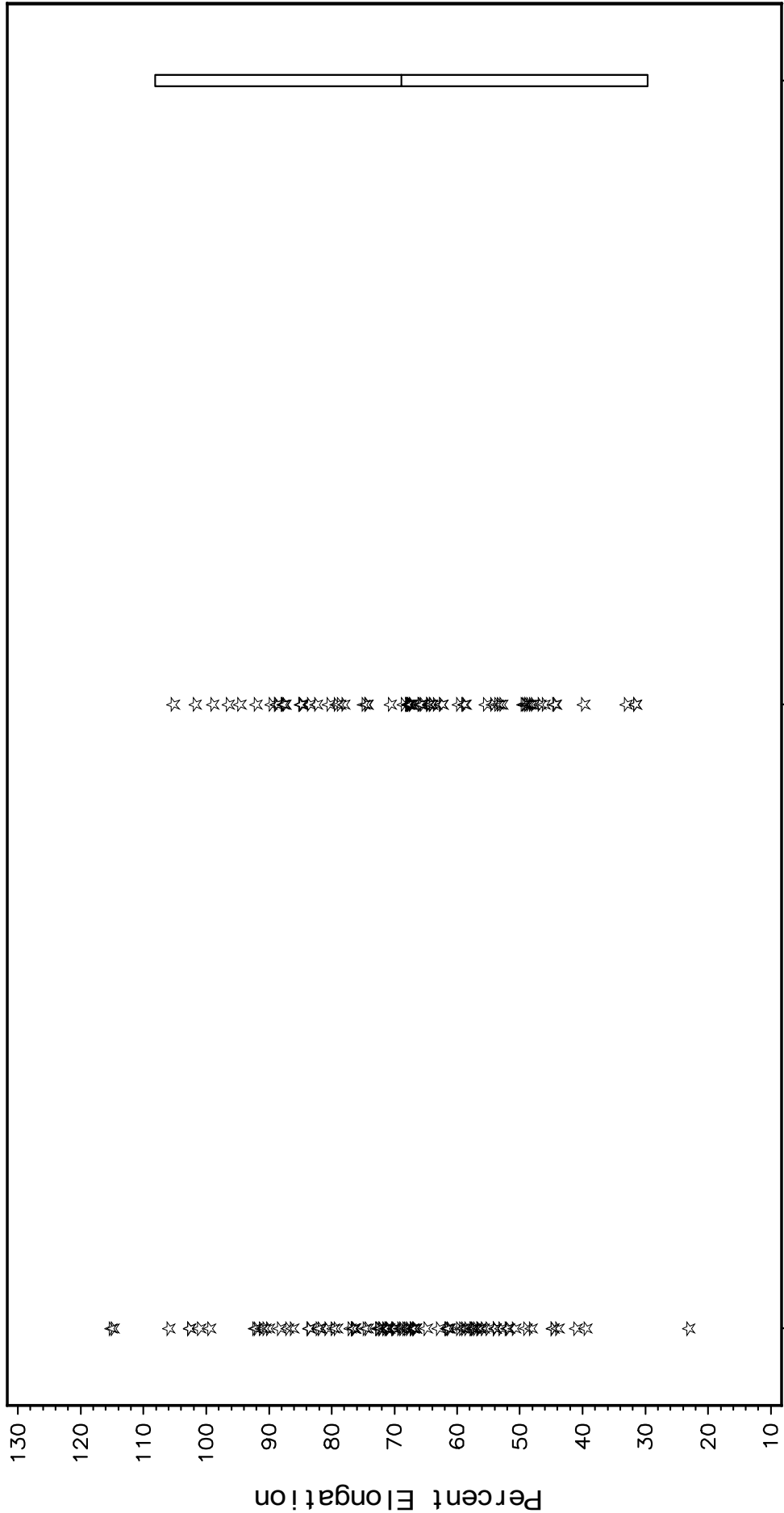
Percent Volume Change



Data Group

OSCT (PA)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

Percent Elongation



B

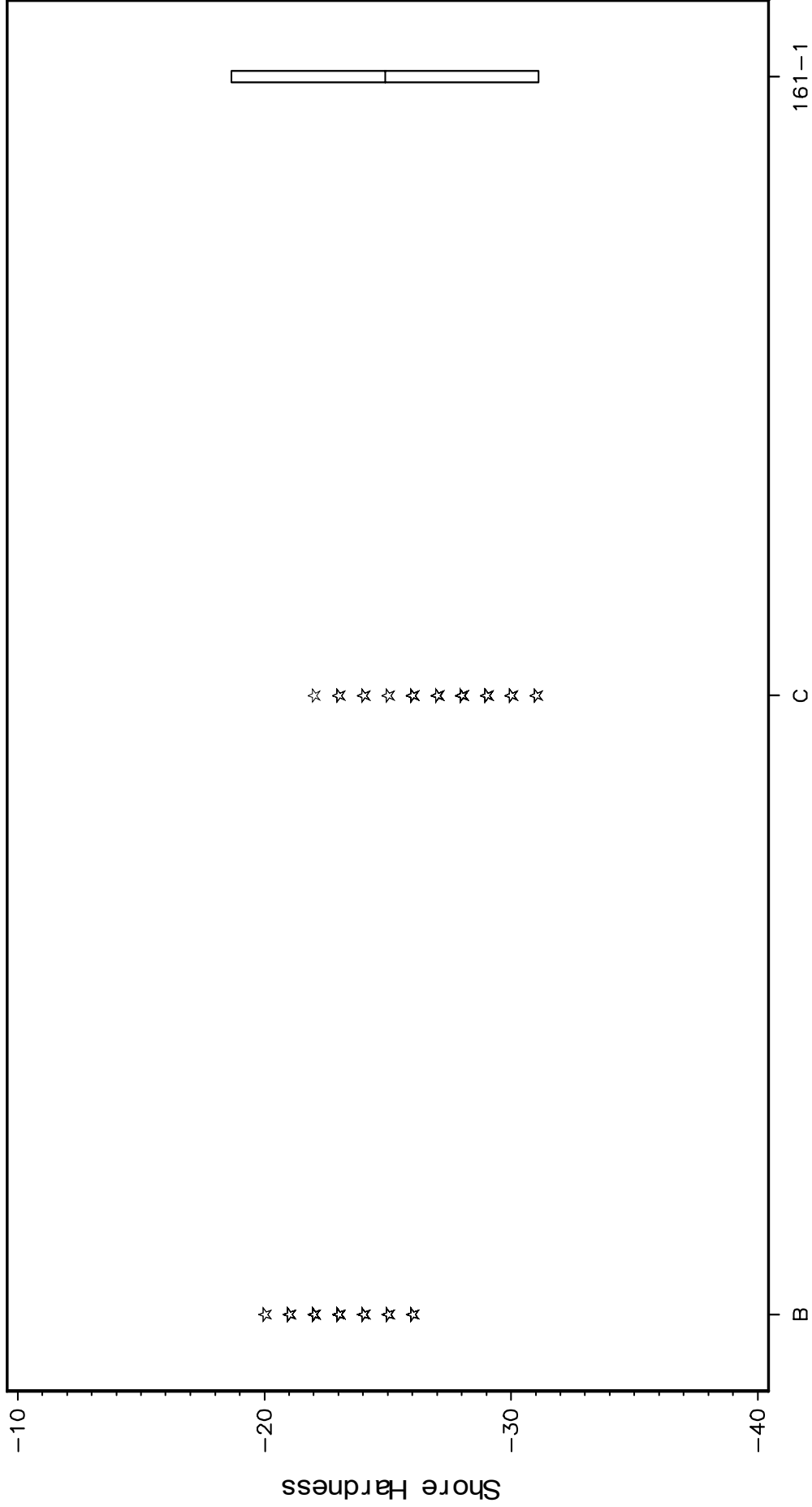
C

161-1

Data Group

OSCT (PA)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

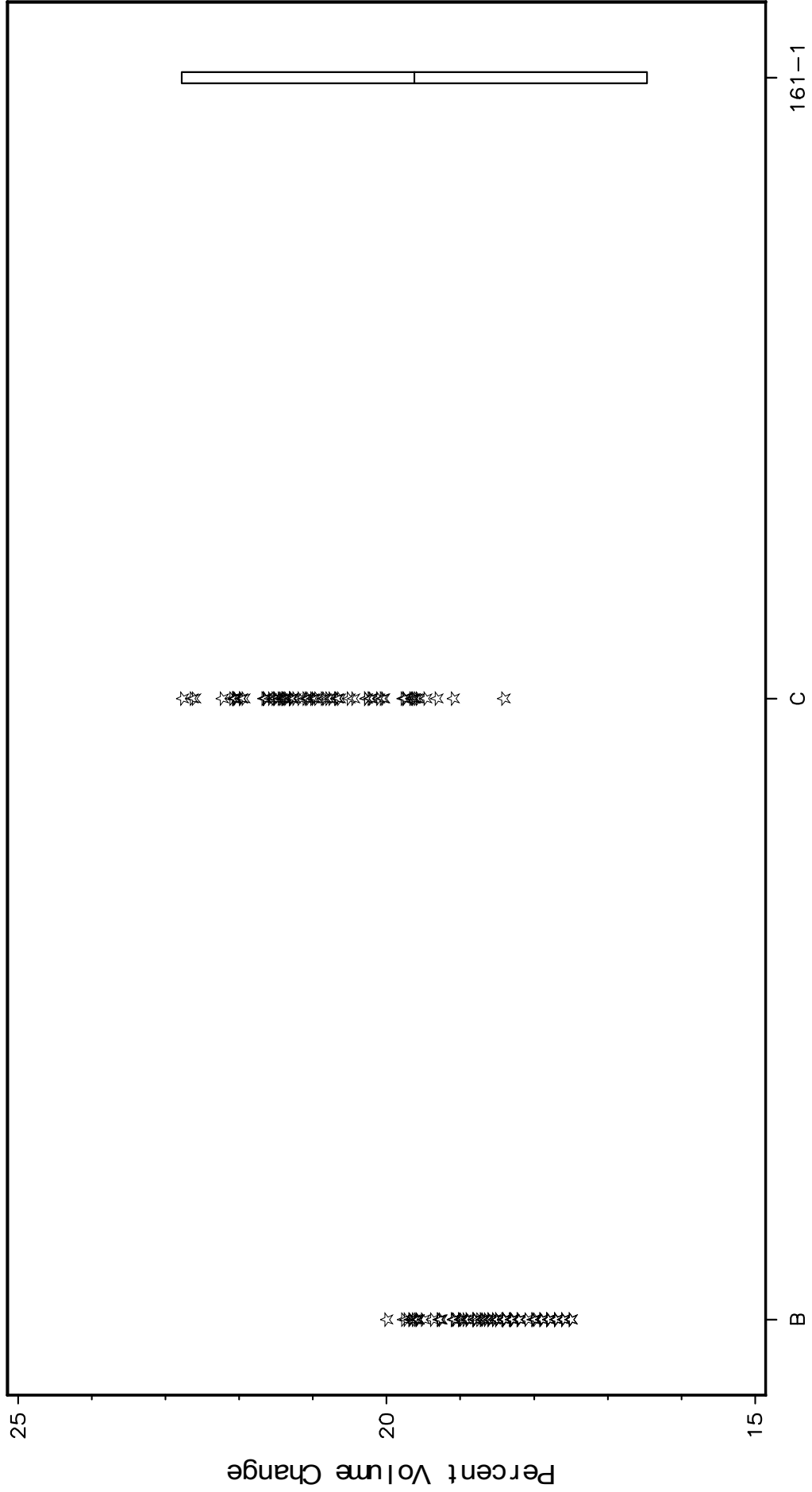
Shore Hardness



Data Group

OSCT (PA)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

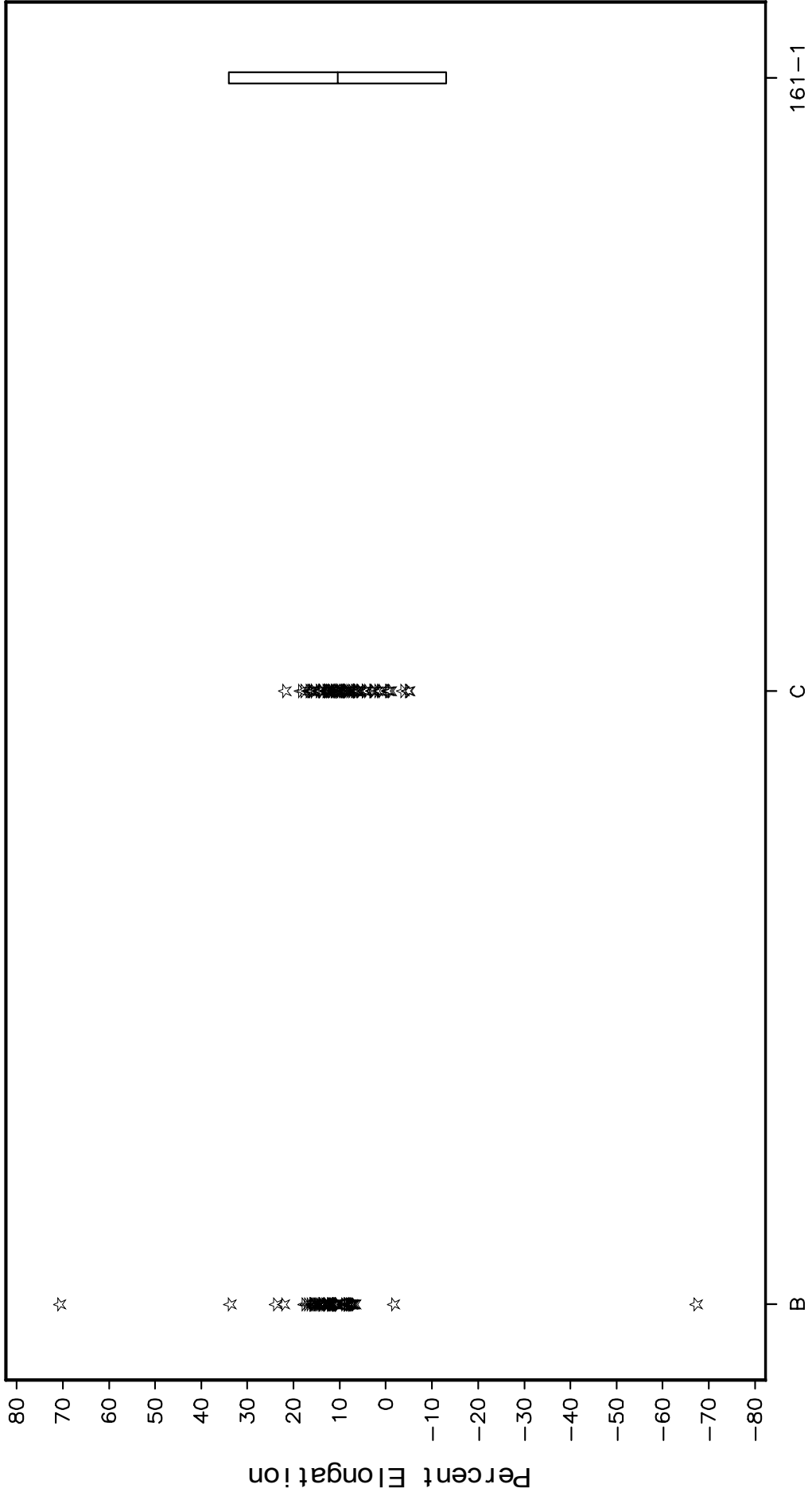
Percent Volume Change



Data Group

OSCT (NI)
 Reference Oil 161-1
 Test Target Data Set and Shewart Severity Limits

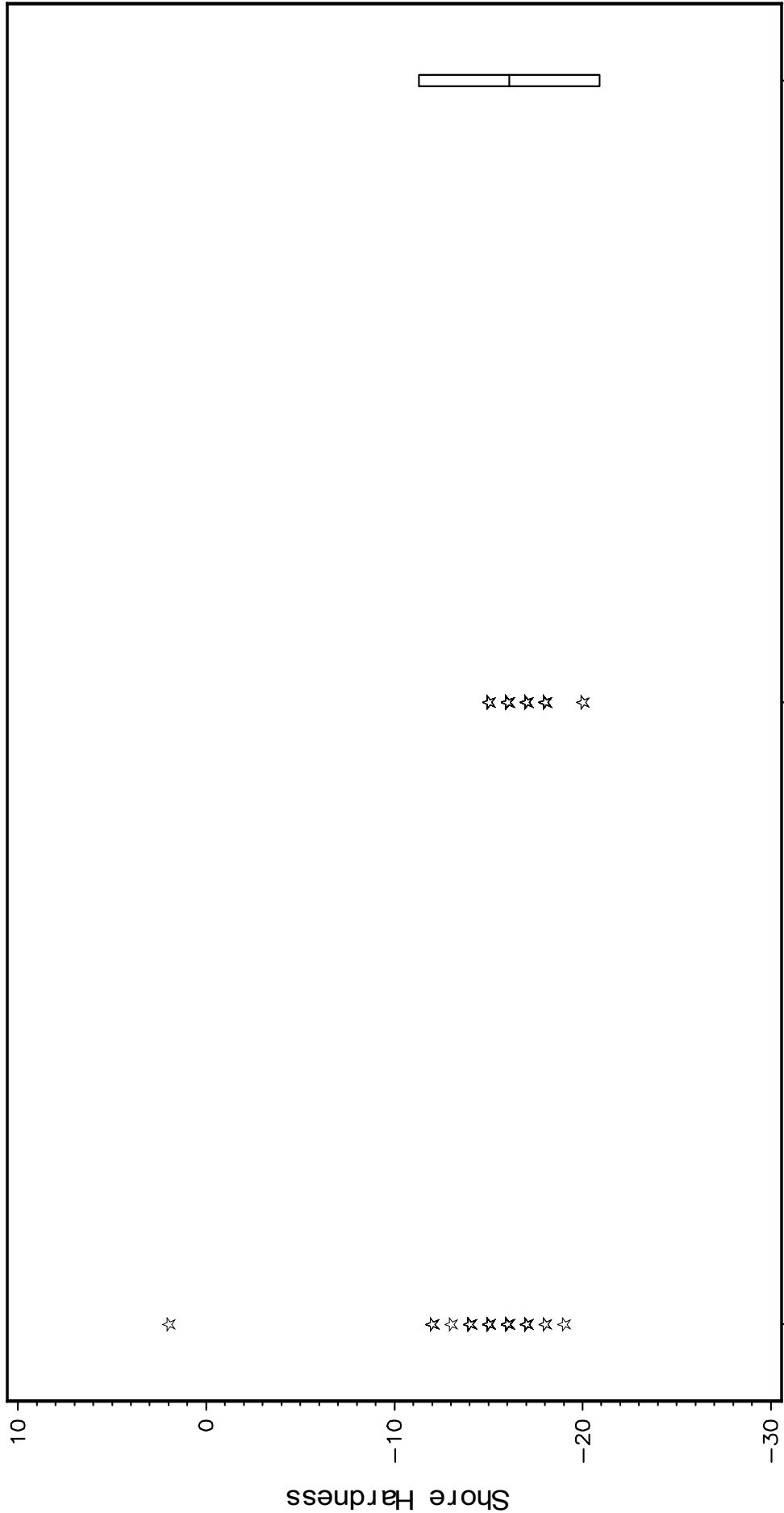
Percent Elongation



Data Group

OSCT (NI)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

Shore Hardness



B

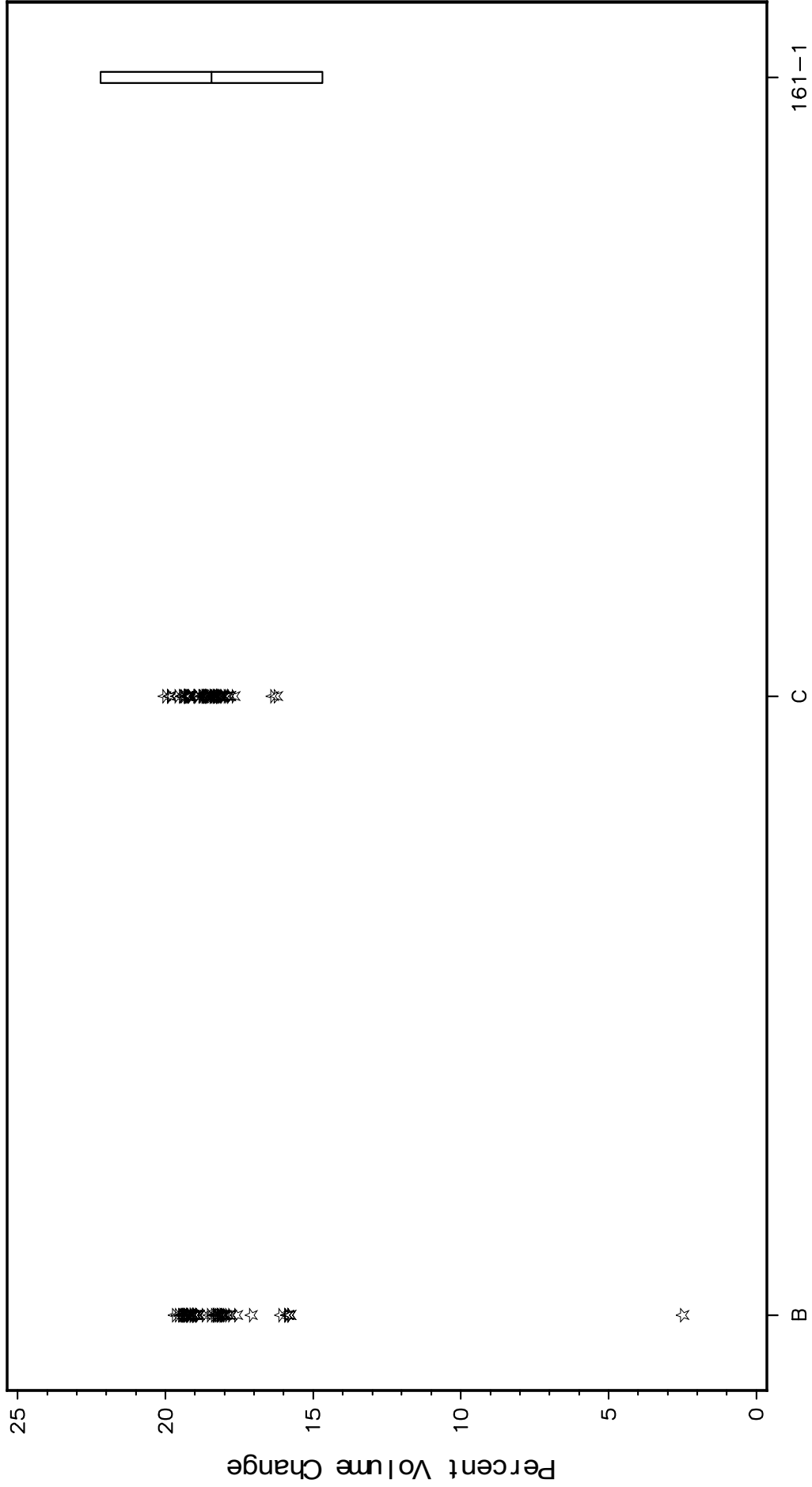
C

161-1

Data Group

OSCT (NI)
Reference Oil 161-1
Test Target Data Set and Shewart Severity Limits

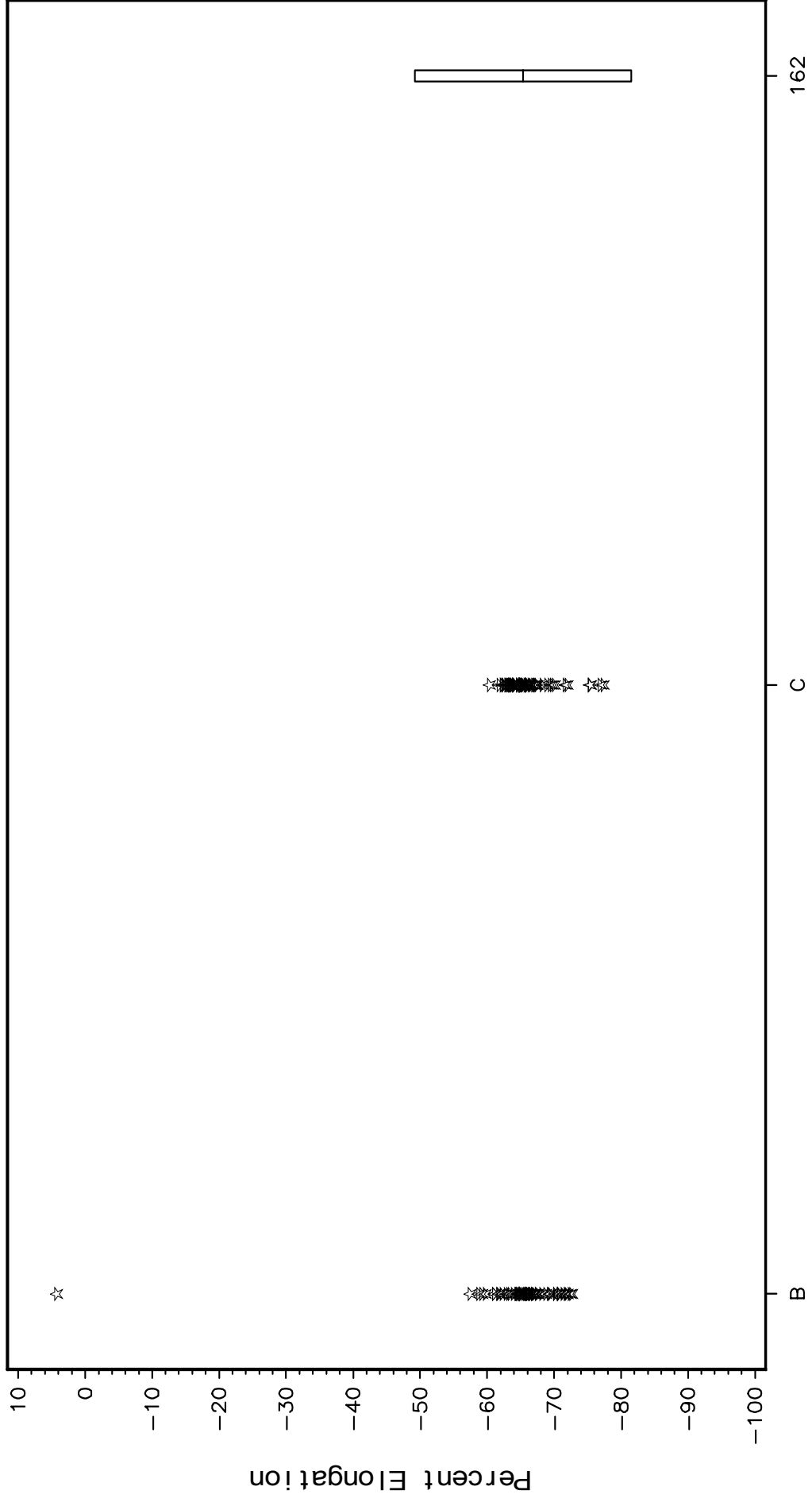
Percent Volume Change



Data Group

OSCT (NI)
Reference Oil 162
Test Target Data Set and Shewart Severity Limits

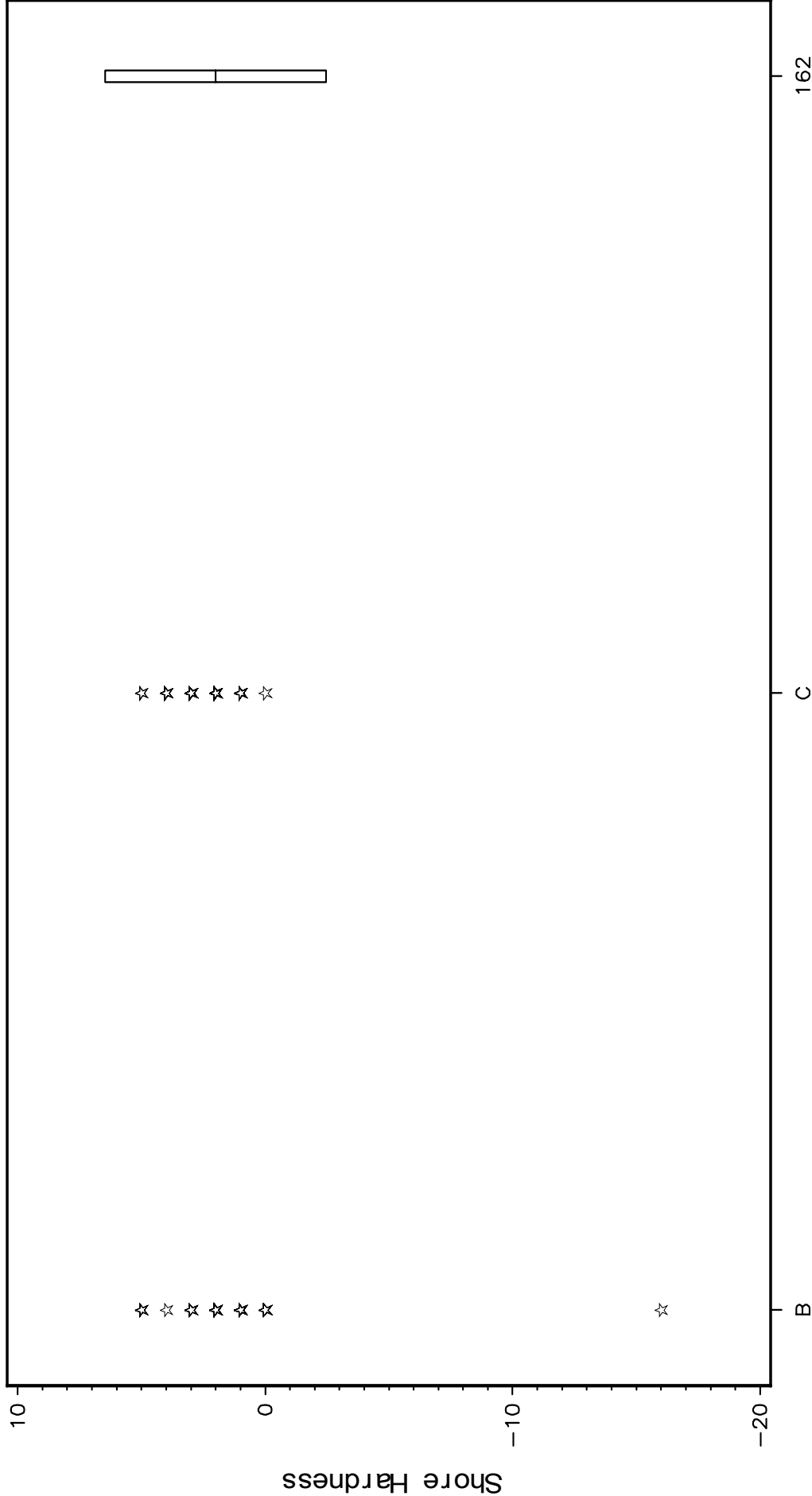
Percent Elongation



Data Group

OSCT (NI)
Reference Oil 162
Test Target Data Set and Shewart Severity Limits

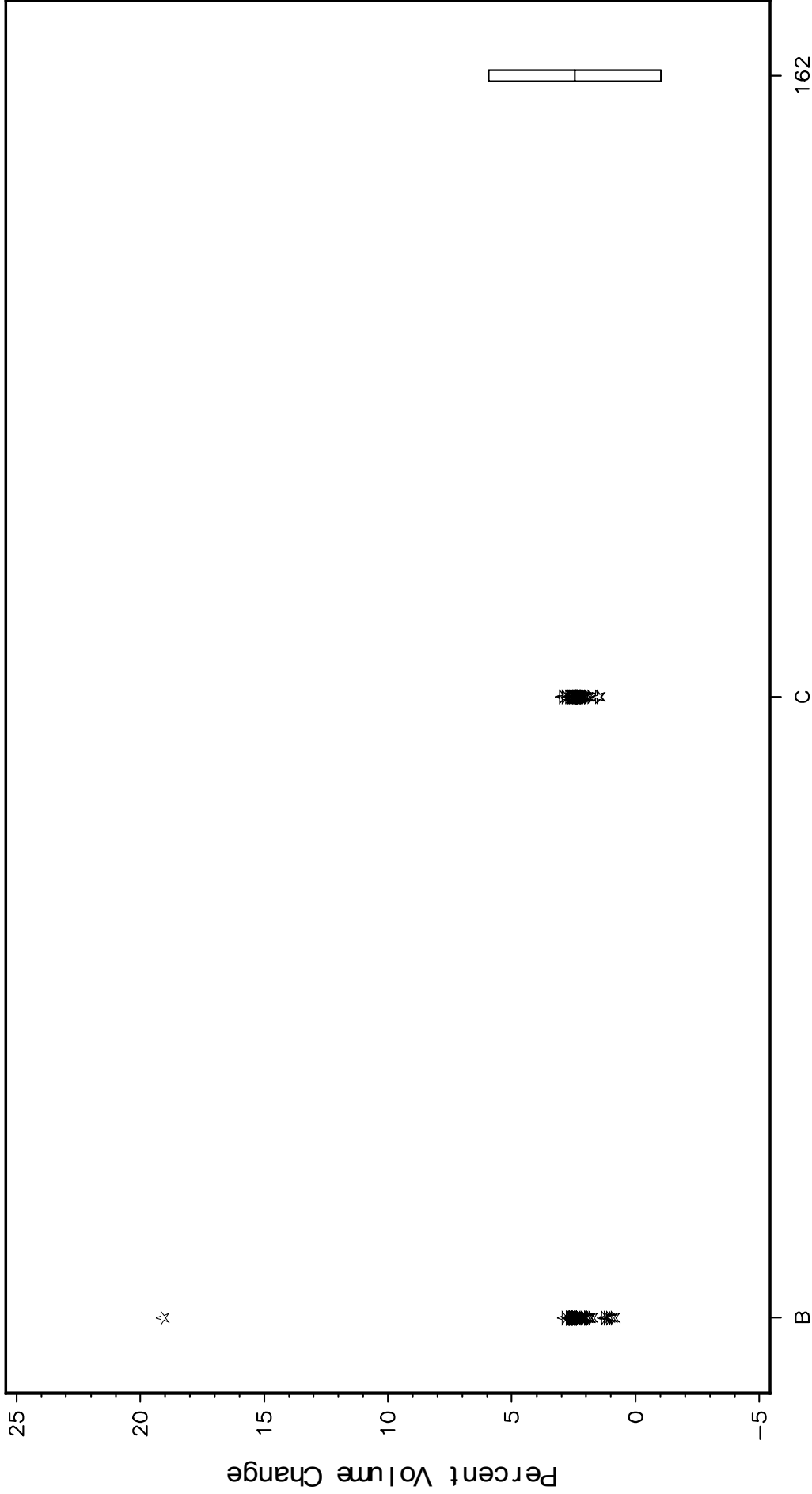
Shore Hardness



Data Group

OSCT (NI)
Reference Oil 162
Test Target Data Set and Shewart Severity Limits

Percent Volume Change



Data Group