



Test Monitoring Center

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MEMORANDUM: 10-002
DATE: February 8, 2010
TO: L-37 Surveillance Panel
FROM: Donald Lind *Donald Lind*
SUBJECT: Gear Batch V1L500/P4T813 Reference Oil Targets

During the February 3, 2010 L-37 Surveillance Panel teleconference call, the panel approved the use of reference oil targets for non-lubricated hardware, gear batch V1L500/P4T813. The approved reference oil targets, plots and data are attached.

These reference oil targets are effective for all tests completed on or after January 20, 2010.

DML/dml

Attachments

c: Frank Farber, TMC

<ftp://ftp.astmtmc.cmu.edu/docs/gear/137/memos/mem10-002.pdf>

Distribution: email

NON-LUBRITED HARDWARE							
GEAR BATCH V1L500/P4LT813							
PINION TEST TARGETS							
	Reference Oil 152-1				Reference Oil 155		
	N	Mean	Standard Deviation		N	Mean	Standard Deviation
WEAR	8	7.38	0.587		8	7.50	0.503
RIDGING	8	-0.597 (8.68)	0.4827		8	-0.533 (8.80)	0.4290
RIPPLING	8	-0.268 (9.19)	0.5340*		8	-0.268 (9.19)	0.5340*
SPITTING	8	0.492 (9.89)	0.3766		8	0.441 (9.86)	0.0930

* Adjusted Standard Deviation

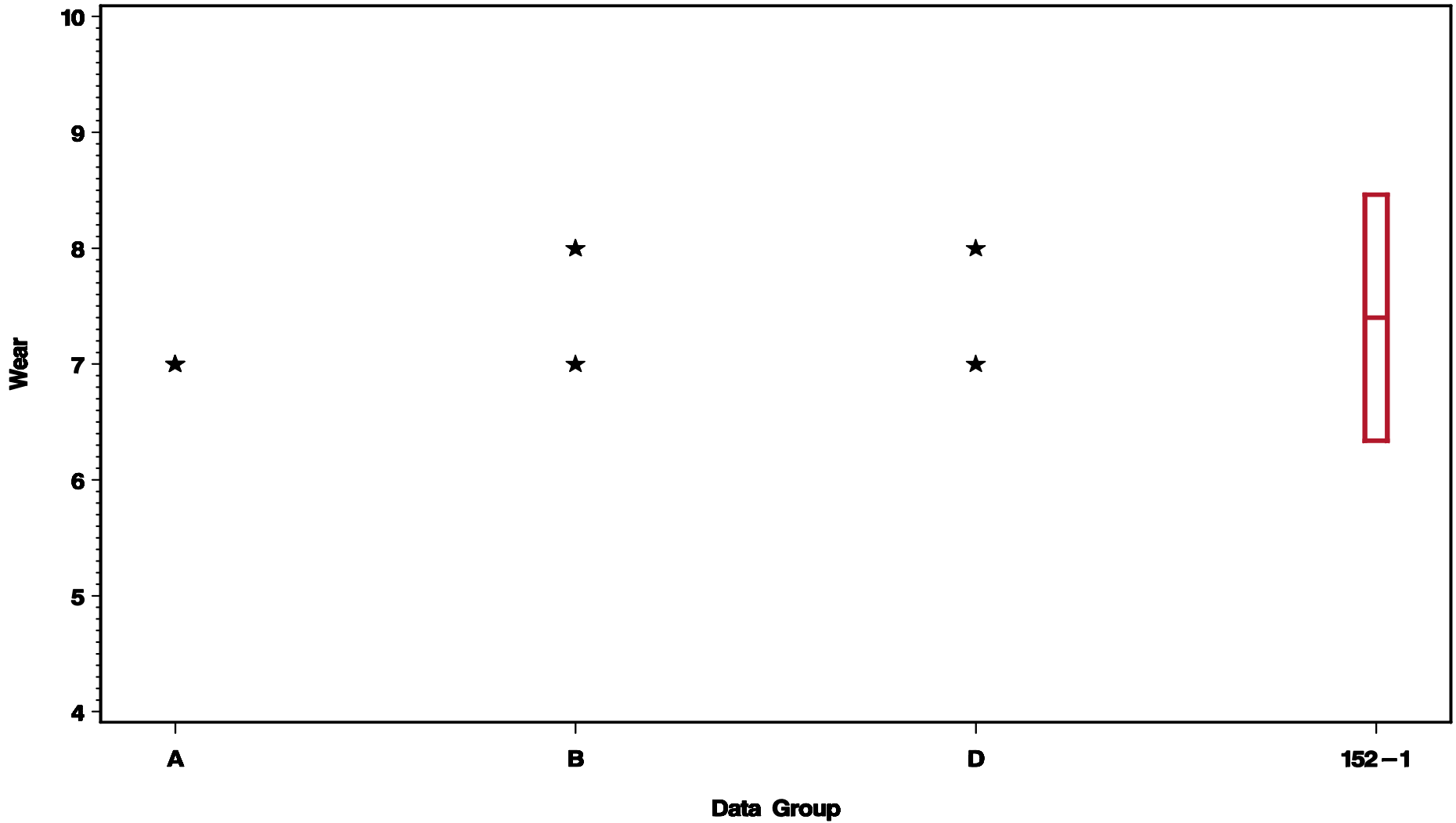
NON-LUBRITED HARDWARE							
GEAR BATCH V1L500/P4LT813							
RING TEST TARGETS							
	Reference Oil 152-1				Reference Oil 155		
	N	Mean	Standard Deviation		N	Mean	Standard Deviation
WEAR	8	8.00	1.119		8	7.88	0.417
RIDGING	8	0.693	0.1879		8	0.693	0.001
RIPPLING	8	0.281	0.4342		8	0.281	0.205
SPITTING	8	0.514	0.1065		8	0.447	0.1208

L-37 Non-lubricated Hardware, Pinion Batch V1L500/P4T813

Test Target Data Set and Shewhart Severity Limits

Reference Oil 152-1 (Bands Include Merit Ratings of 7 & 8)

Pinion Wear

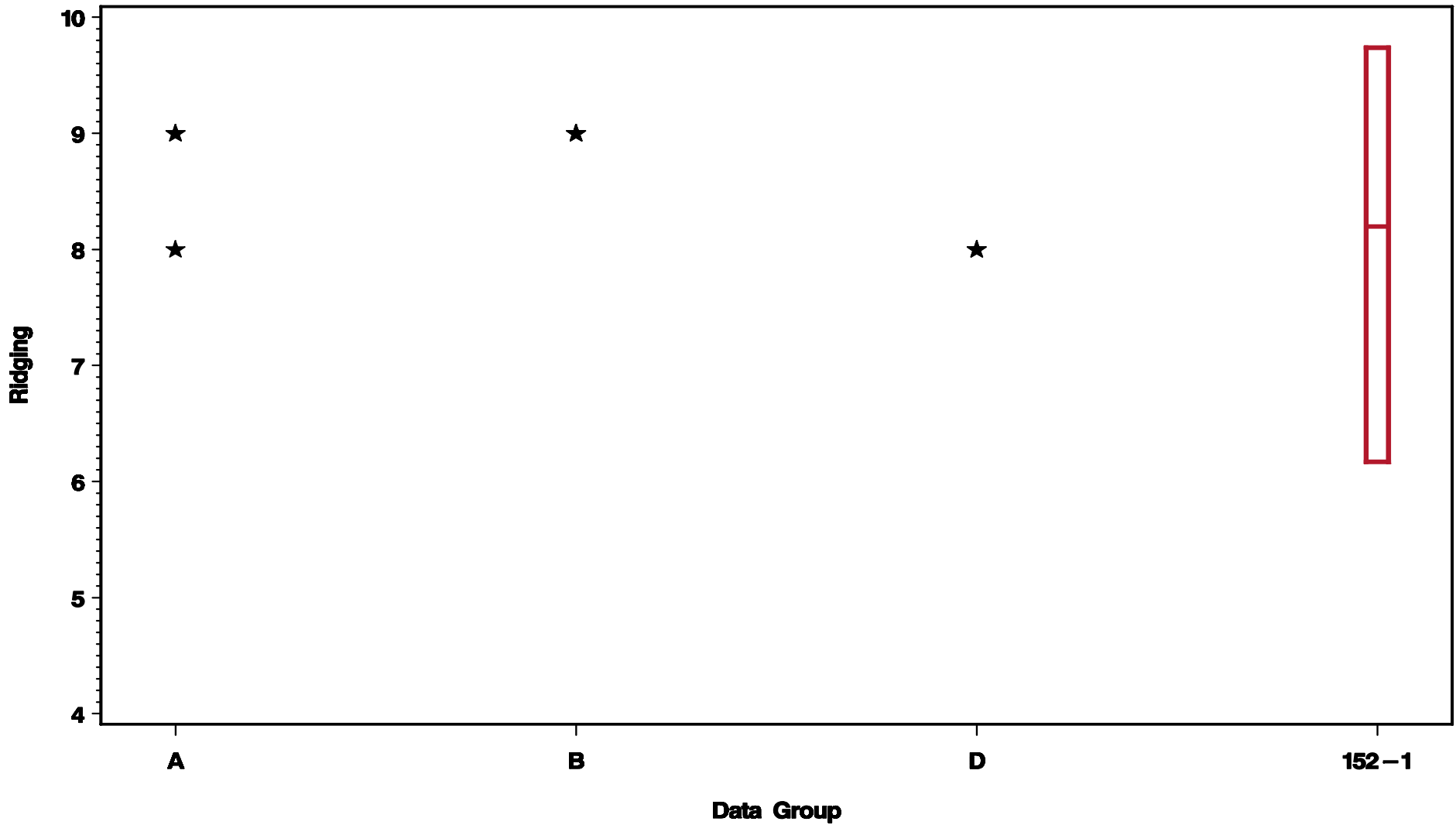


L-37 Non-lubricated Hardware, Pinion Batch V1L500/P4T813

Test Target Data Set and Shewhart Severity Limits

Reference Oil 152-1 (Bands Include Merit Ratings of 7,8, & 9)

Pinion Ridging

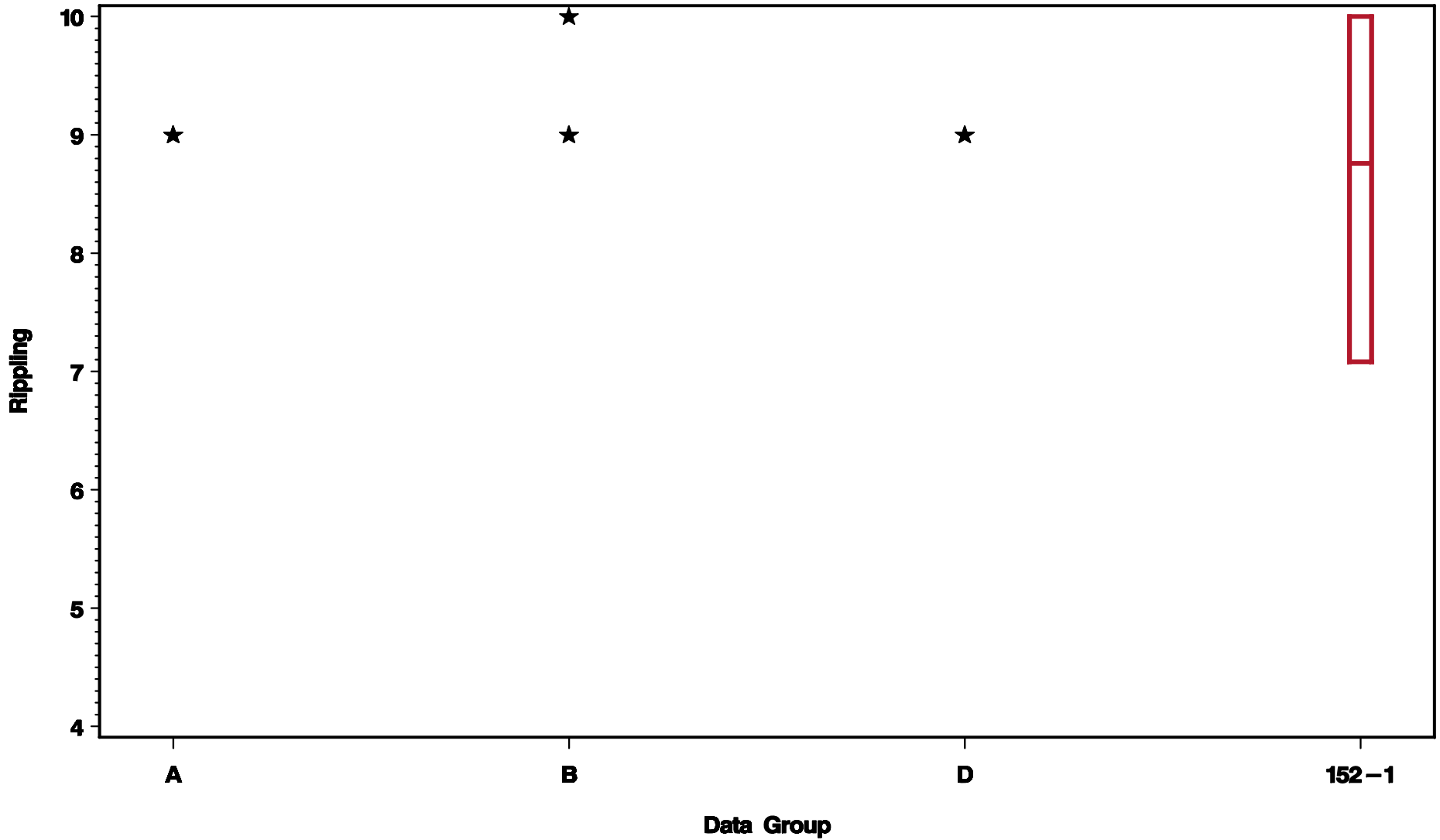


L-37 Non-lubricated Hardware, Pinion Batch V1L500\P4T813

Test Target Data Set and Shewhart Severity Limits

Reference Oil 152-1 (Bands Include Merit Ratings of 8, 9, & 10)

Pinion Rippling

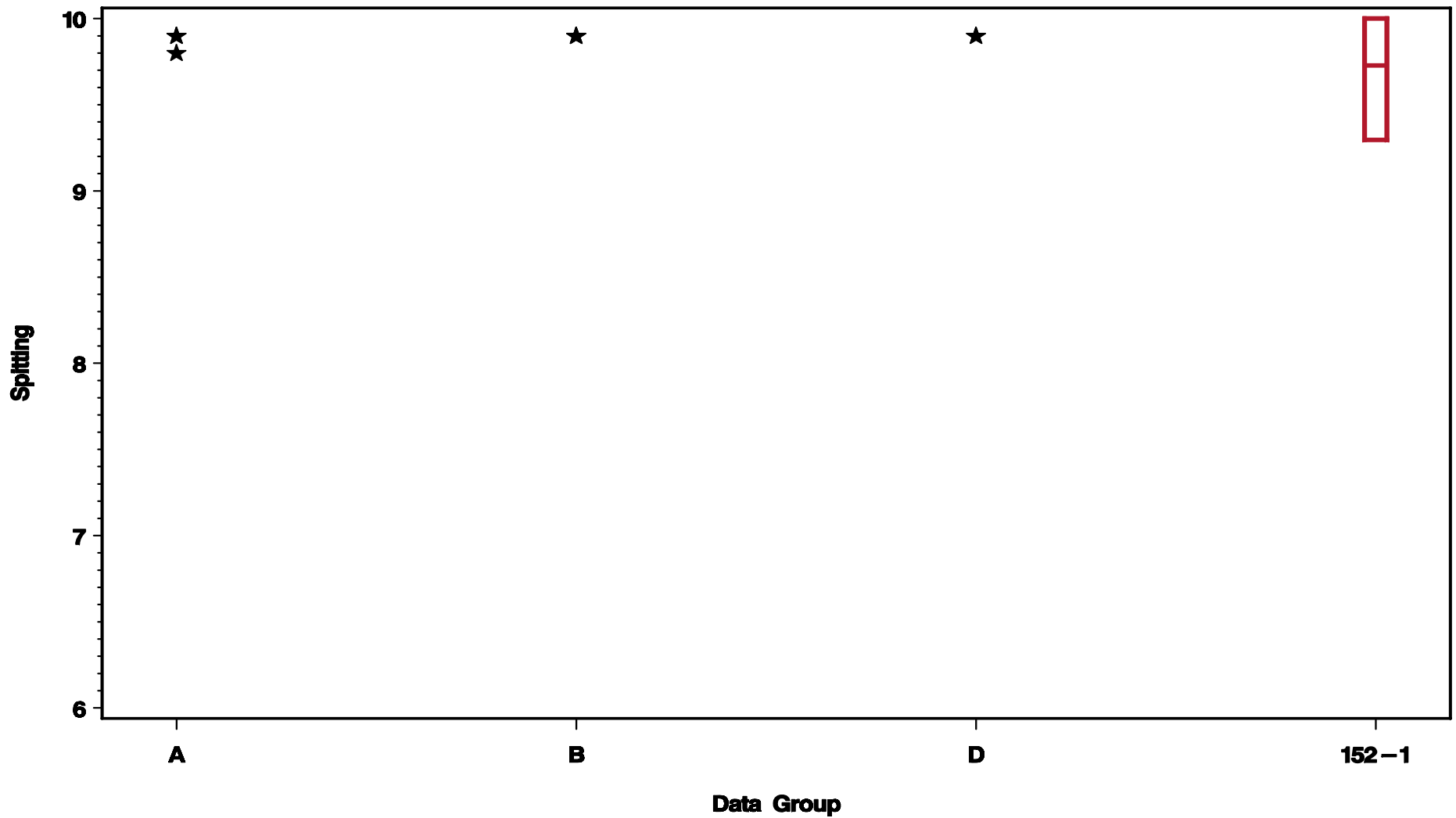


L-37 Non-lubricated Hardware, Pinion Batch VIL500/P4T813

Test Target Data Set and Shewhart Severity Limits

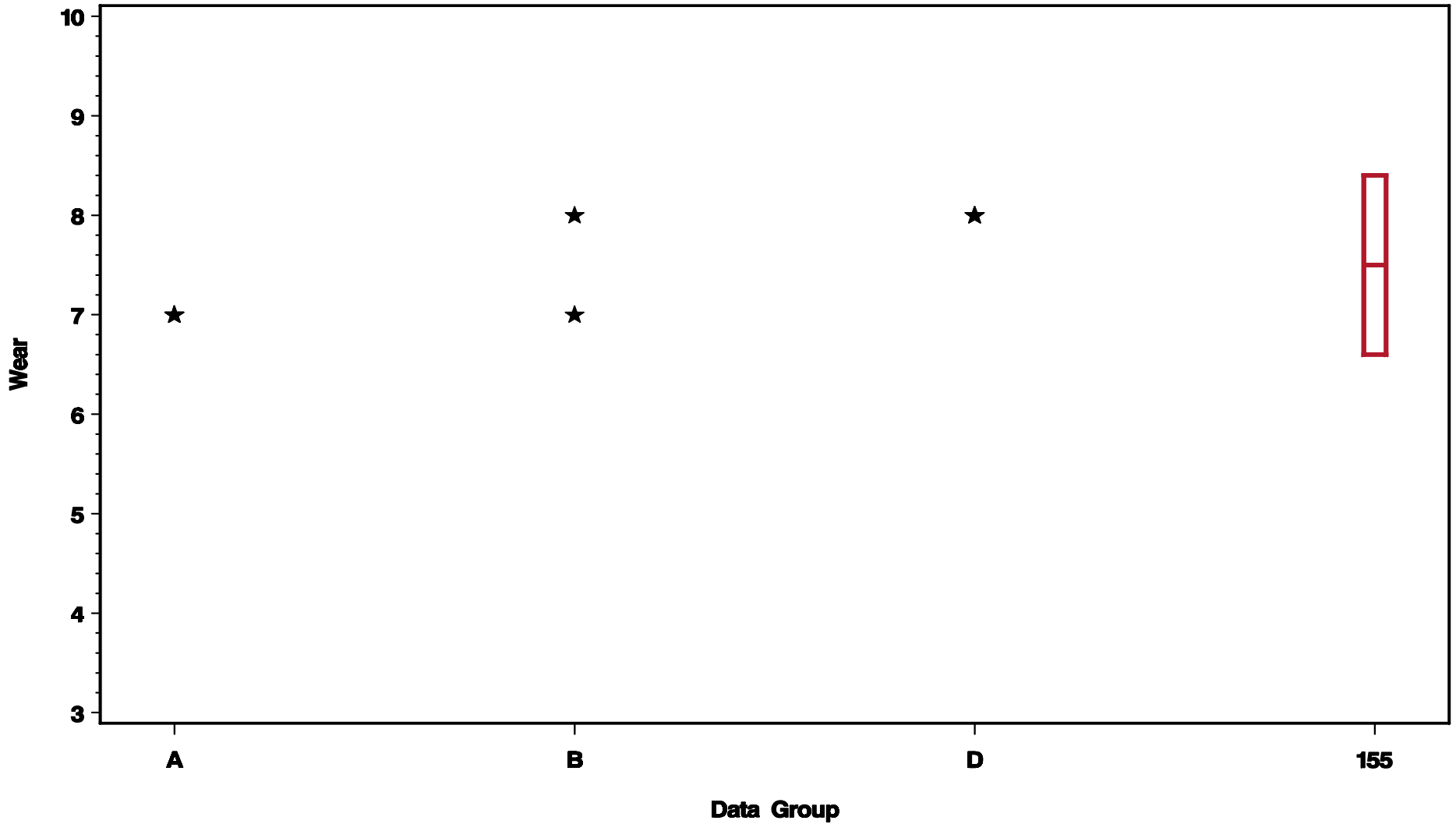
Reference Oil 152-1 (Bands Include Merit Ratings of 9.3 to 10)

Pinion Spitting



L-37 Non-lubricated Hardware, Pinion Batch V1L500/P4T813
Test Target Data Set and Shewhart Severity Limits
Reference Oil 155 (Bands Include Merit Ratings of 7 & 8)

Pinion Wear

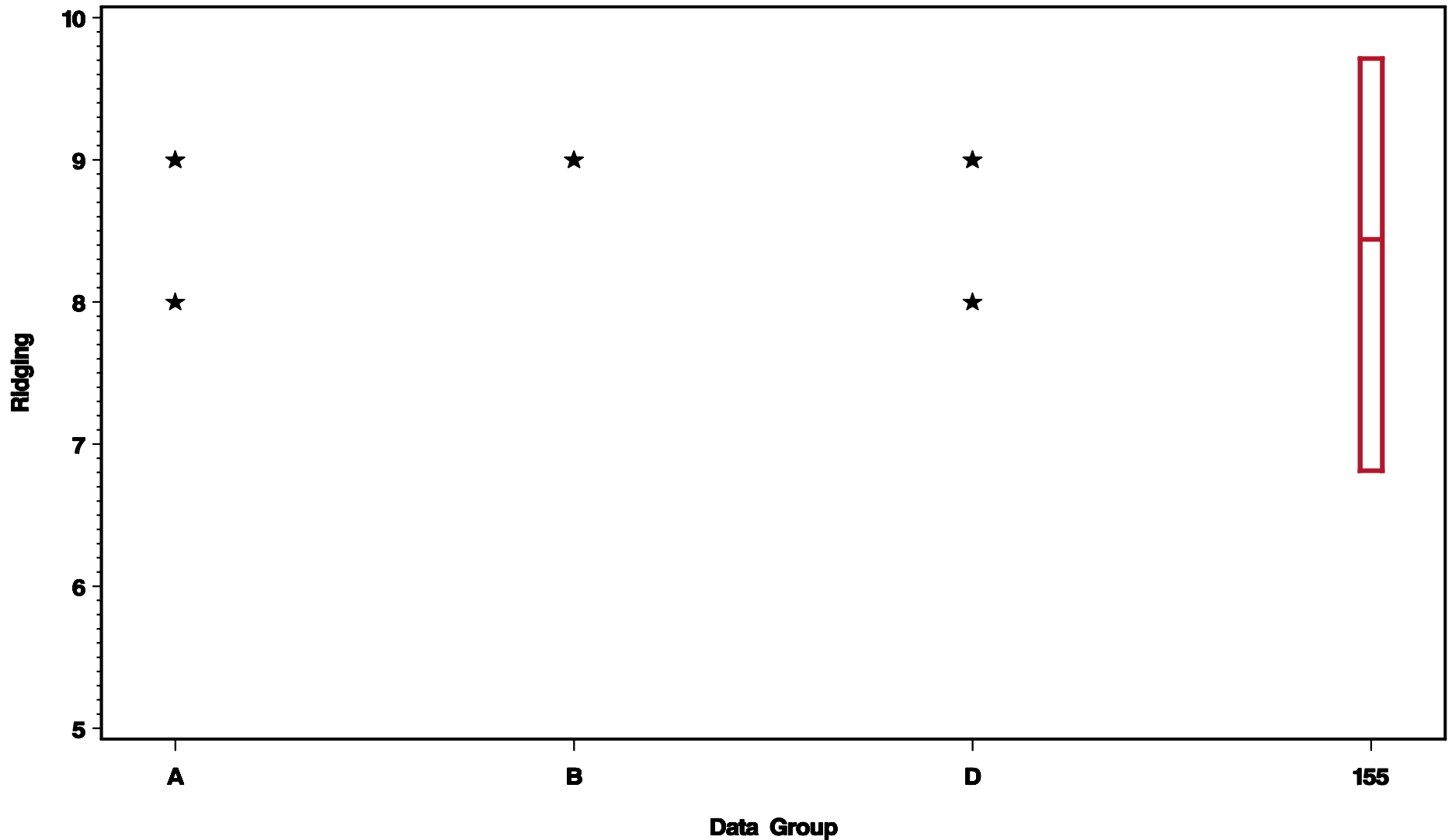


L-37 Non-lubricated Hardware, Pinion Batch V1L500/P4T813

Test Target Data Set and Shewhart Severity Limits

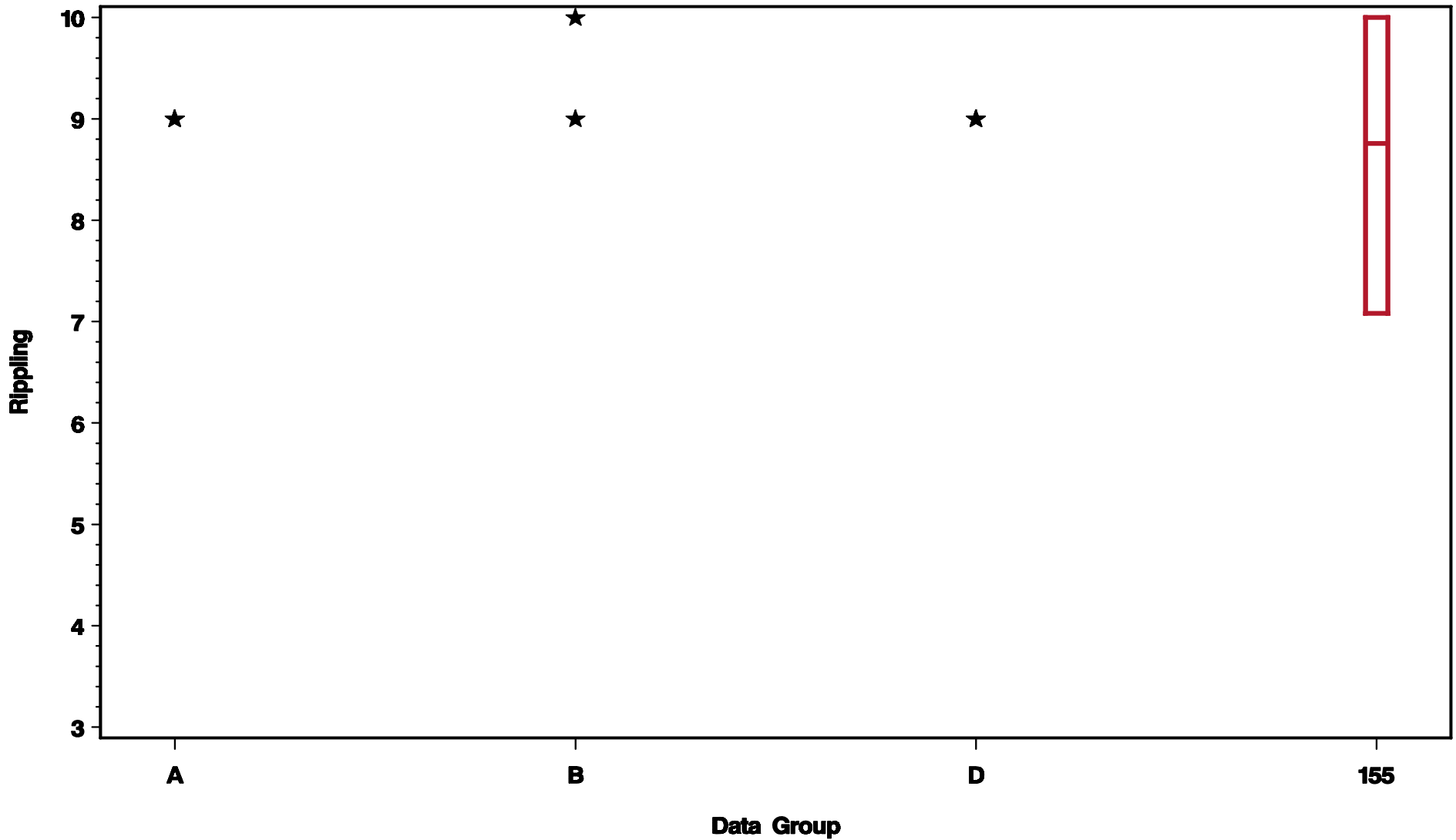
Reference Oil 155 (Bands Include Merit Ratings of 7, 8, & 9)

Pinion Ridging



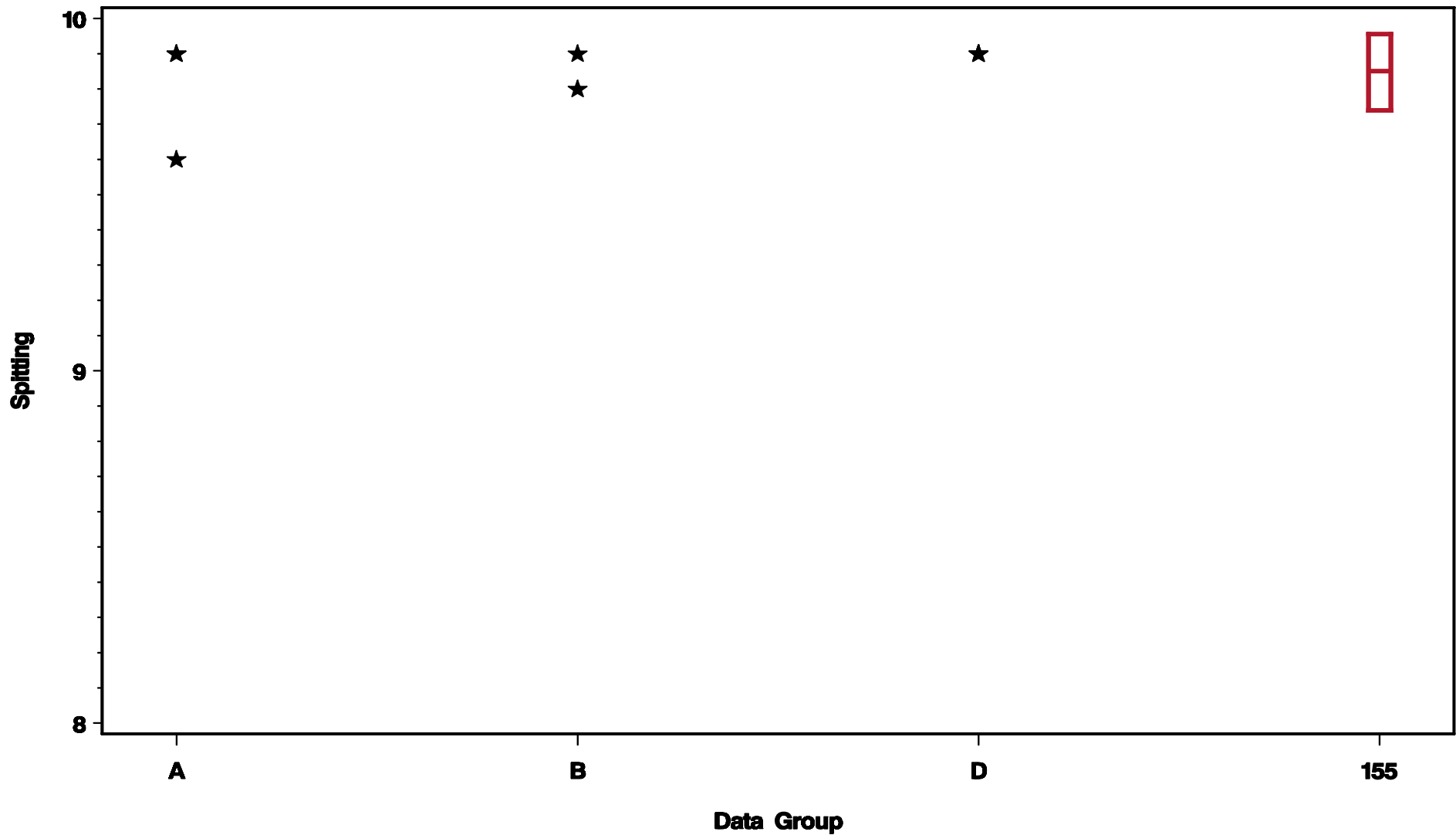
L-37 Non-lubricated Hardware, Pinion Batch V1L500\P4T813
Test Target Data Set and Shewhart Severity Limits
Reference Oil 155 (Bands Include Merit Ratings of 8, 9, & 10)

Pinion Rippling



L-37 Non-lubricated Hardware, Pinion Batch V1L500/P4T813
Test Target Data Set and Shewhart Severity Limits
Reference Oil 155 (Bands Include Merit Ratings of 9.8 & 9.9)

Pinion Spitting



V1L500/P7T813 REFERENCE OIL TARGETS DATA

TESTKEY	LAB	IND	VAL	PINBAT	RINGBAT	DTCOMP	WEAR	RIDG	RIPP	SPIT
67378	A	152-1	AG	V1L500	P4T813	20091206	7.0	9.0	9.0	9.9
67342	D	152-1	AG	V1L500	P4T813	20091210	8.0	8.0	9.0	9.9
67379	A	152-1	AG	V1L500	P4T813	20091221	7.0	8.0	9.0	9.8
67380	A	152-1	AG	V1L500	P4T813	20091222	7.0	9.0	9.0	9.9
67306	B	152-1	AG	V1L500	P4T813	20091226	8.0	9.0	9.0	9.9
67307	B	152-1	AG	V1L500	P4T813	20091229	8.0	9.0	9.0	9.9
72059	B	152-1	AG	V1L500	P4T813	20100102	7.0	9.0	10.0	9.9
67343	D	152-1	AG	V1L500	P4T813	20100121	7.0	8.0	9.0	9.9
67297	B	155	AG	V1L500	P4T813	20091212	7.0	9.0	10.0	9.8
67332	D	155	AG	V1L500	P4T813	20091215	8.0	9.0	9.0	9.9
63282	A	155	AG	V1L500	P4T813	20091216	7.0	8.0	9.0	9.9
67373	A	155	AG	V1L500	P4T813	20091220	7.0	9.0	9.0	9.6
67298	B	155	AG	V1L500	P4T813	20091228	8.0	9.0	9.0	9.9
67333	D	155	AG	V1L500	P4T813	20100116	8.0	8.0	9.0	9.9
67334	D	155	AG	V1L500	P4T813	20100120	8.0	9.0	9.0	9.9
67372	A	155	AG	V1L500	P4T813	20100126	7.0	9.0	9.0	9.9