



Test Monitoring Center

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MEMORANDUM: 05-022
DATE: April 27, 2005
TO: L-37 Surveillance Panel
FROM: Donald Lind
SUBJECT: Gear Batch L247/T758A

At the April 21, 2005 L-37 Surveillance Panel Teleconference Meeting, the panel approved the use of the lubrited hardware, gear batch L247/T758A. The approved reference oil targets, plots and data are attached.

These targets are effective for all tests completed on or after April 21, 2005.

DML/dml

Attachments

c: <ftp://ftp.astmtmc.cmu.edu/docs/gear/137/memos/mem05-022.pdf>

Distribution: Electronic Mail

LUBRITED HARDWARE							
GEAR BATCH L247/T758A							
PINION TEST TARGETS							
	Reference Oil 128-1				Reference Oil 151-3		
	N	Mean	Standard Deviation		N	Mean	Standard Deviation
WEAR	17	5.82	0.457 (*)		16	5.81	0.450 (*)
RIDGING	17	-1.015	0.1580		16	-0.554	0.2765
RIPPLING	17	-1.287	0.3570		16	-0.618	0.2943
SPITTING	17	-0.504	0.4762		16	-0.044	0.4956

LUBRITED HARDWARE							
GEAR BATCH L247/T758A							
RING TEST TARGETS							
	Reference Oil 128-1				Reference Oil 151-3		
	N	Mean	Standard Deviation		N	Mean	Standard Deviation
WEAR	17	7.29	0.470		16	7.75	0.931
RIDGING	17	-0.276	0.3649		16	-0.380	0.5984
RIPPLING	17	-0.416	0.4945		16	0.144	0.5673
SPITTING	17	0.390	0.4400		16	0.427	0.2603

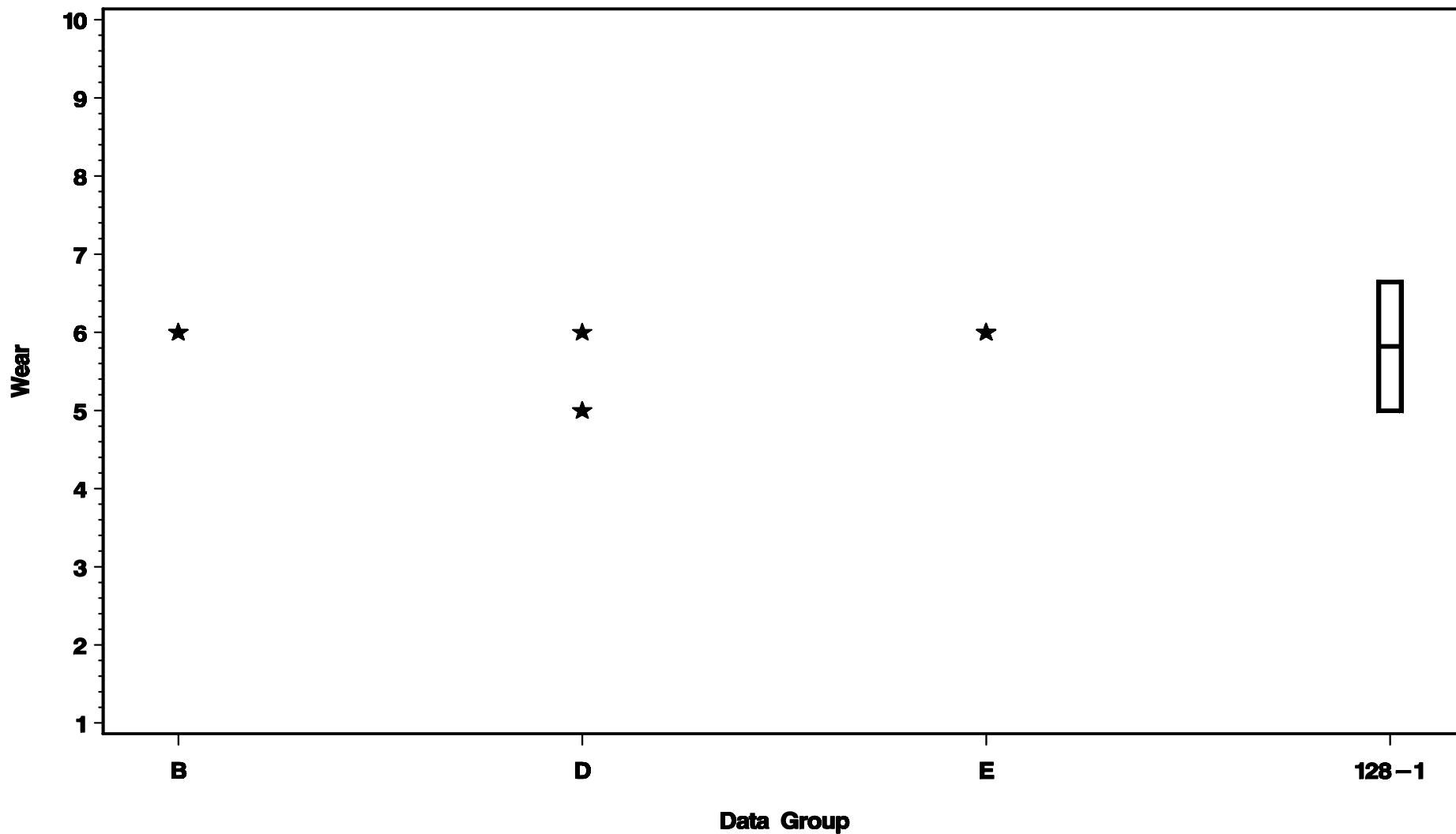
(*) Adjusted Standard Deviation to Include Wear Result of 5.0

L-37 Lubrited Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 128-1 (Bands Include Merit Ratings of 5 & 6)

Pinion Wear

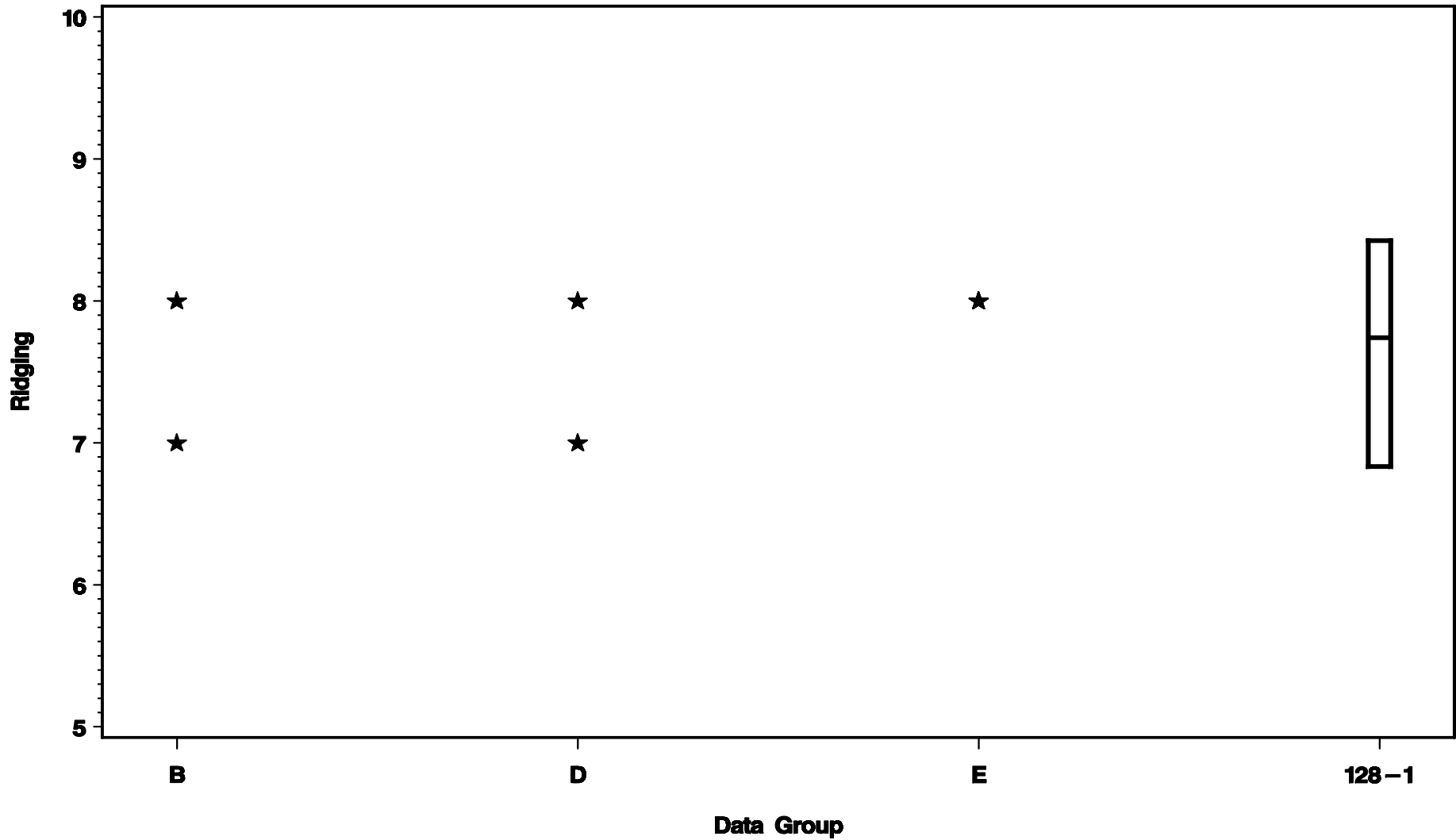


L-37 Lubrified Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 128-1 (Bands Include Merit Ratings of 7 & 8)

Pinion Ridging

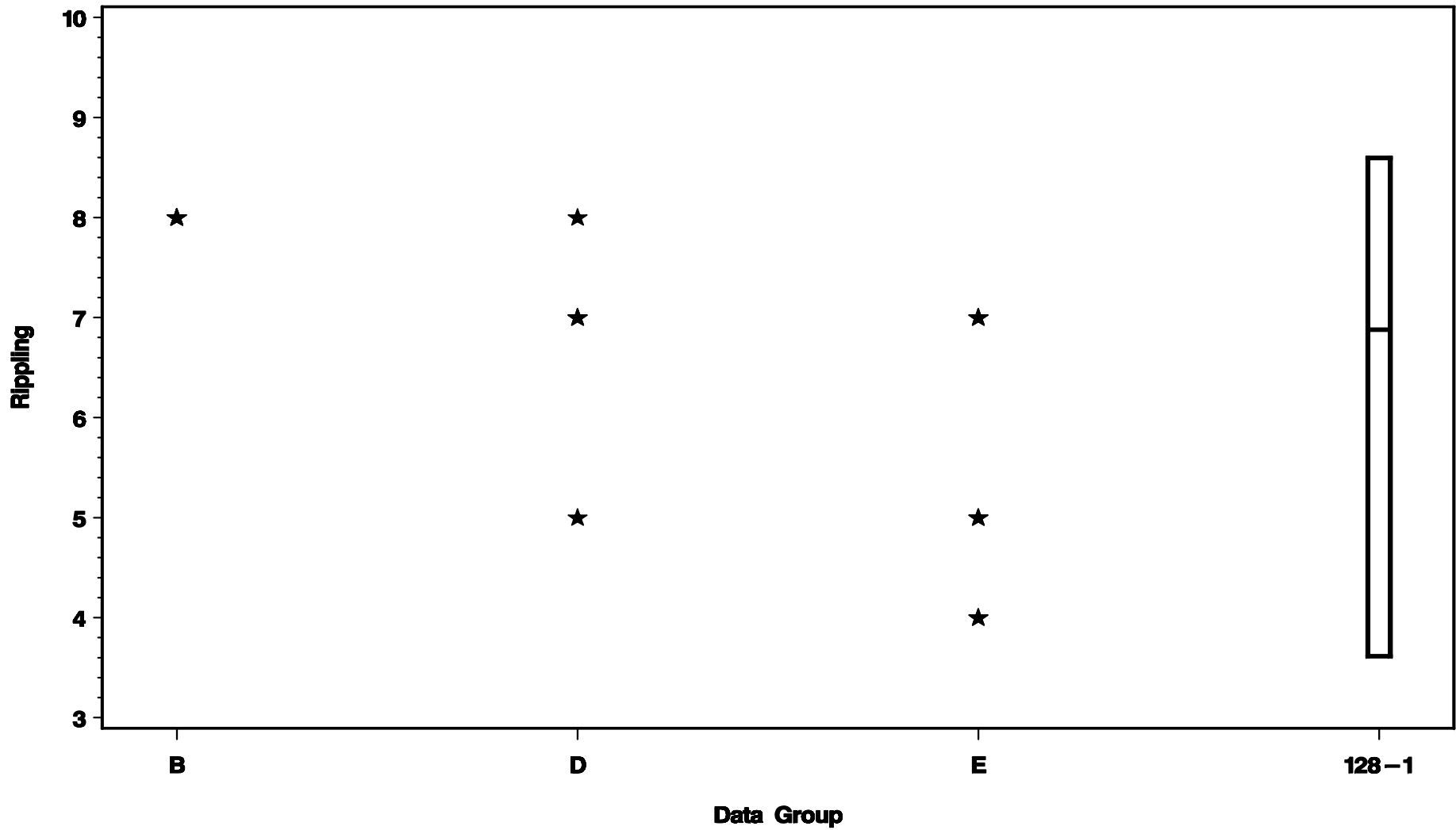


L-37 Lubrited Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 128-1 (Bands Include Merit Ratings of 4 thru 8)

Pinion Rippling

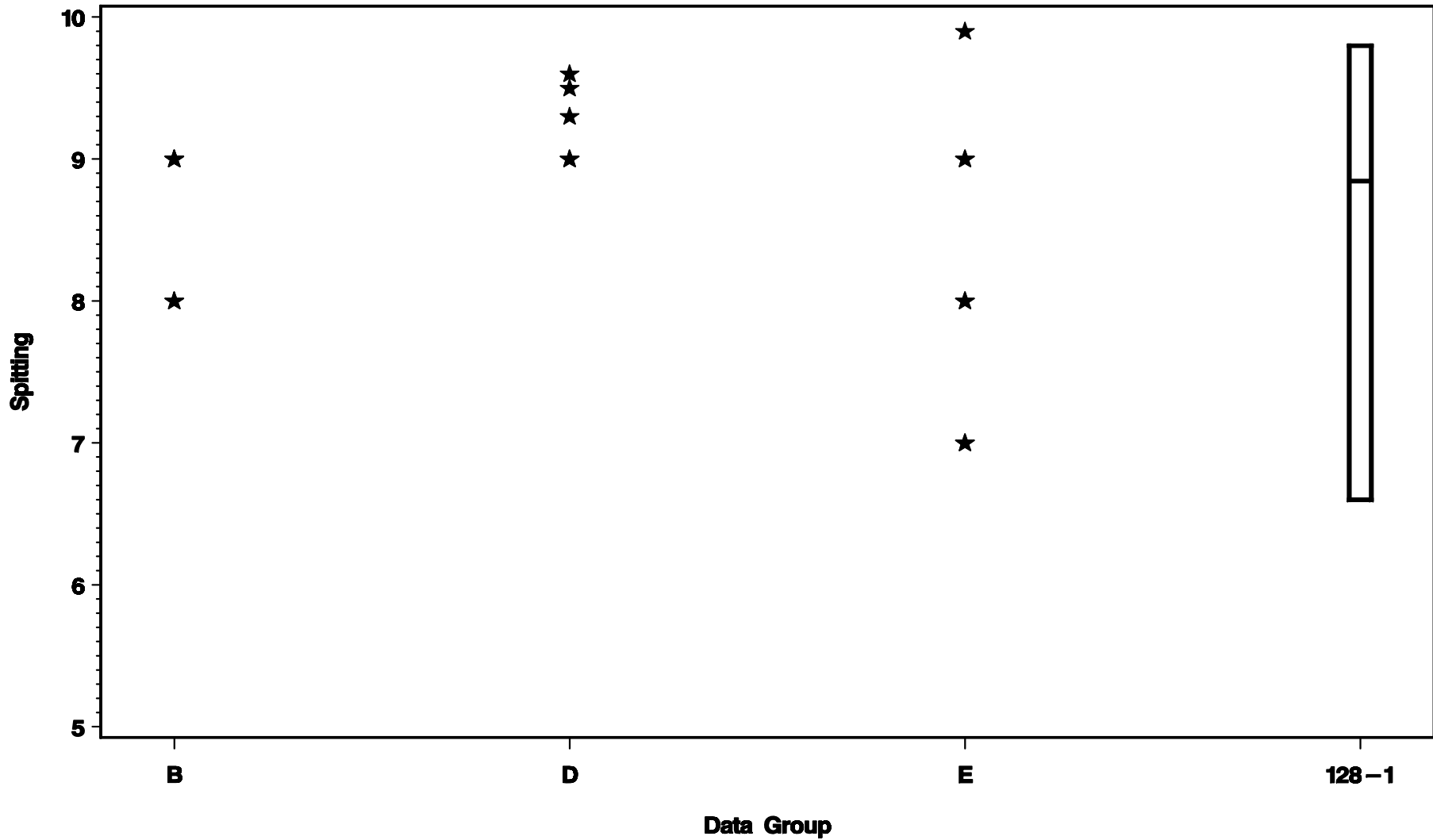


L-37 Lubrified Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

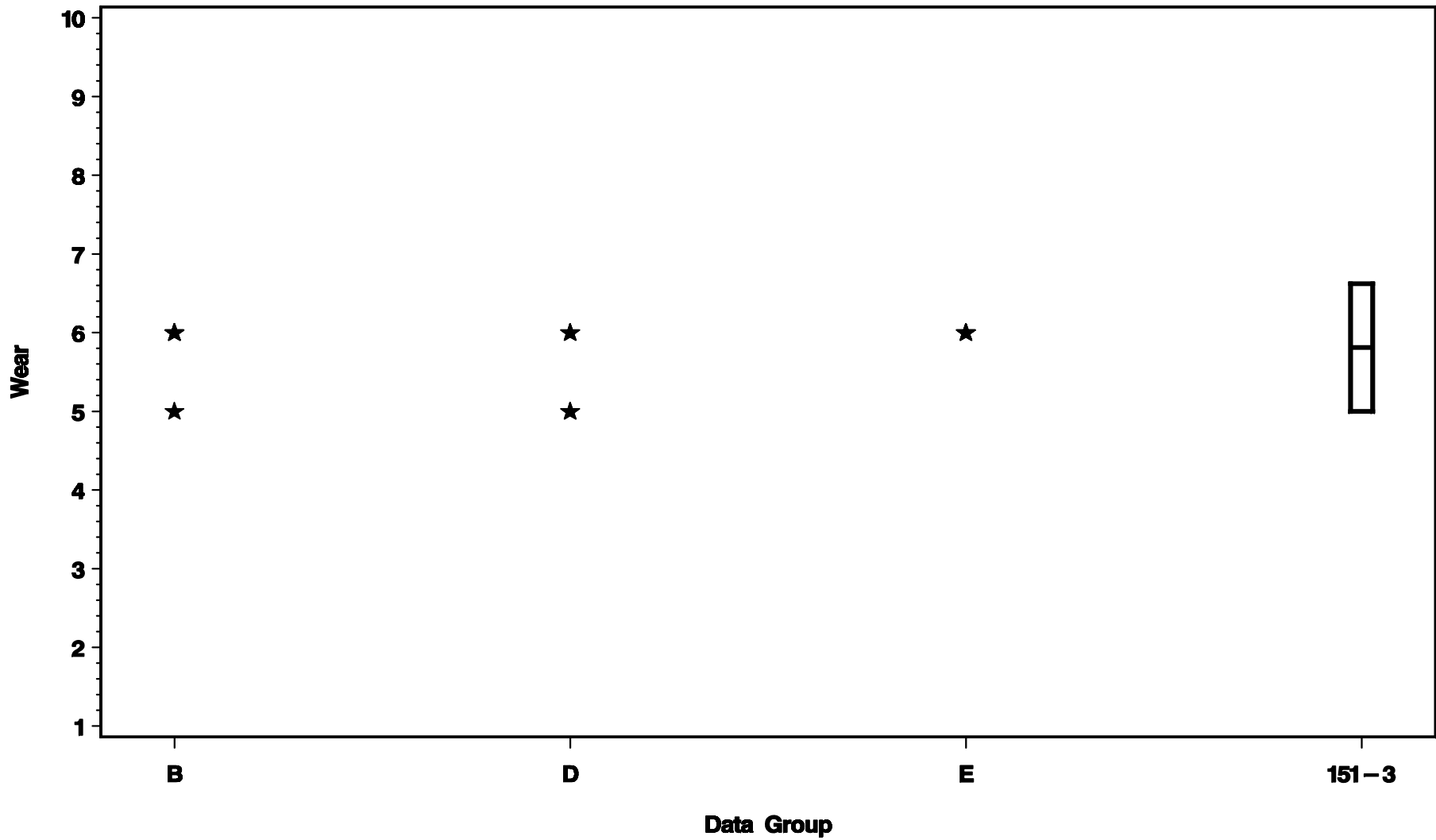
Reference Oil 128-1 (Bands Include Merit Ratings of 7 Thru 9.8)

Pinion Spitting



L-37 Lubrified Hardware, Pinion Batch L247/T758A
Test Target Data Set and Shewhart Severity Limits
Reference Oil 151-3 (Bands Include Merit Ratings of 5 & 6)

Pinion Wear

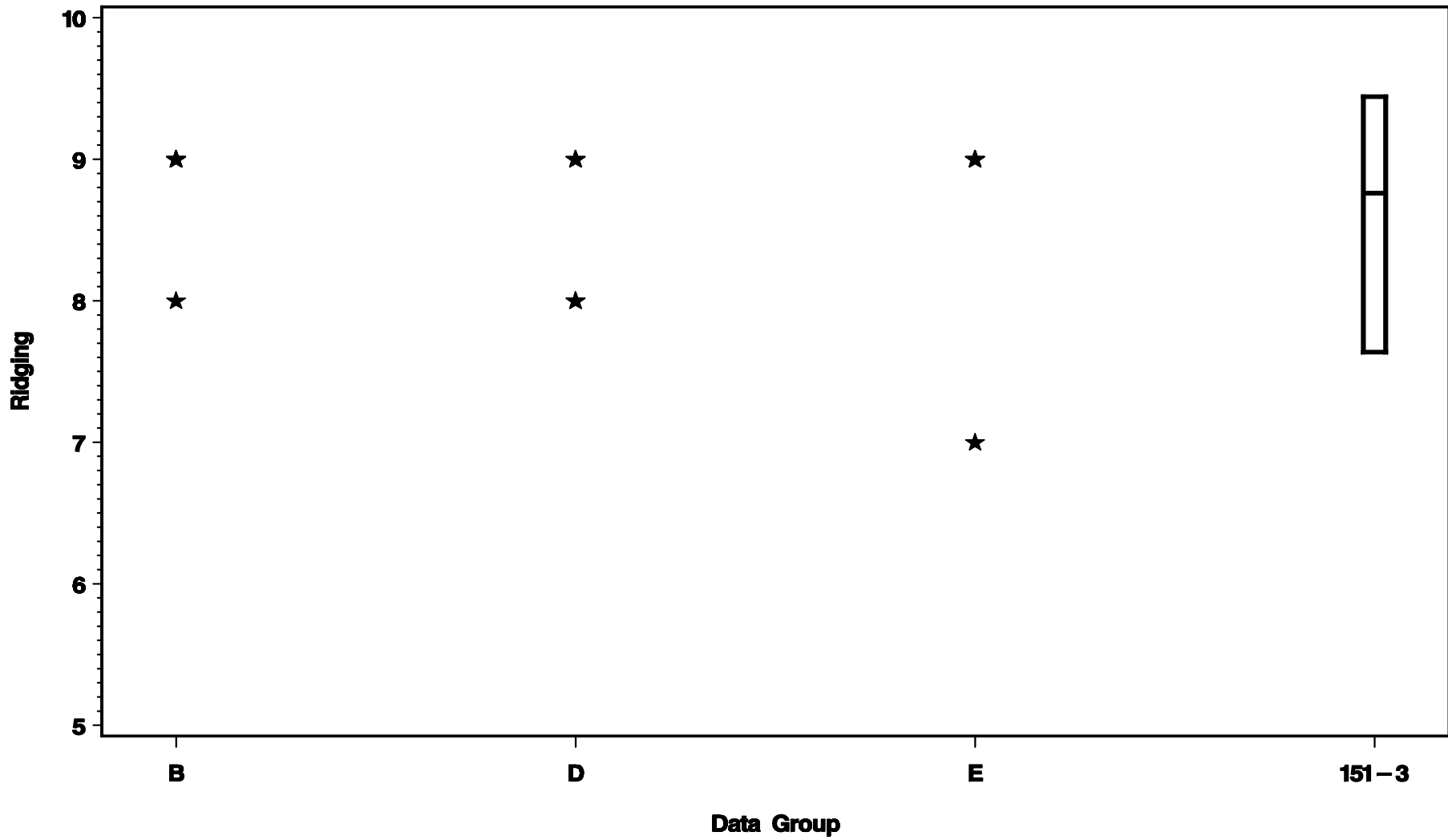


L-37 Lubrited Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 151-3 (Bands Include Merit Ratings of 8 & 9)

Pinion Ridging

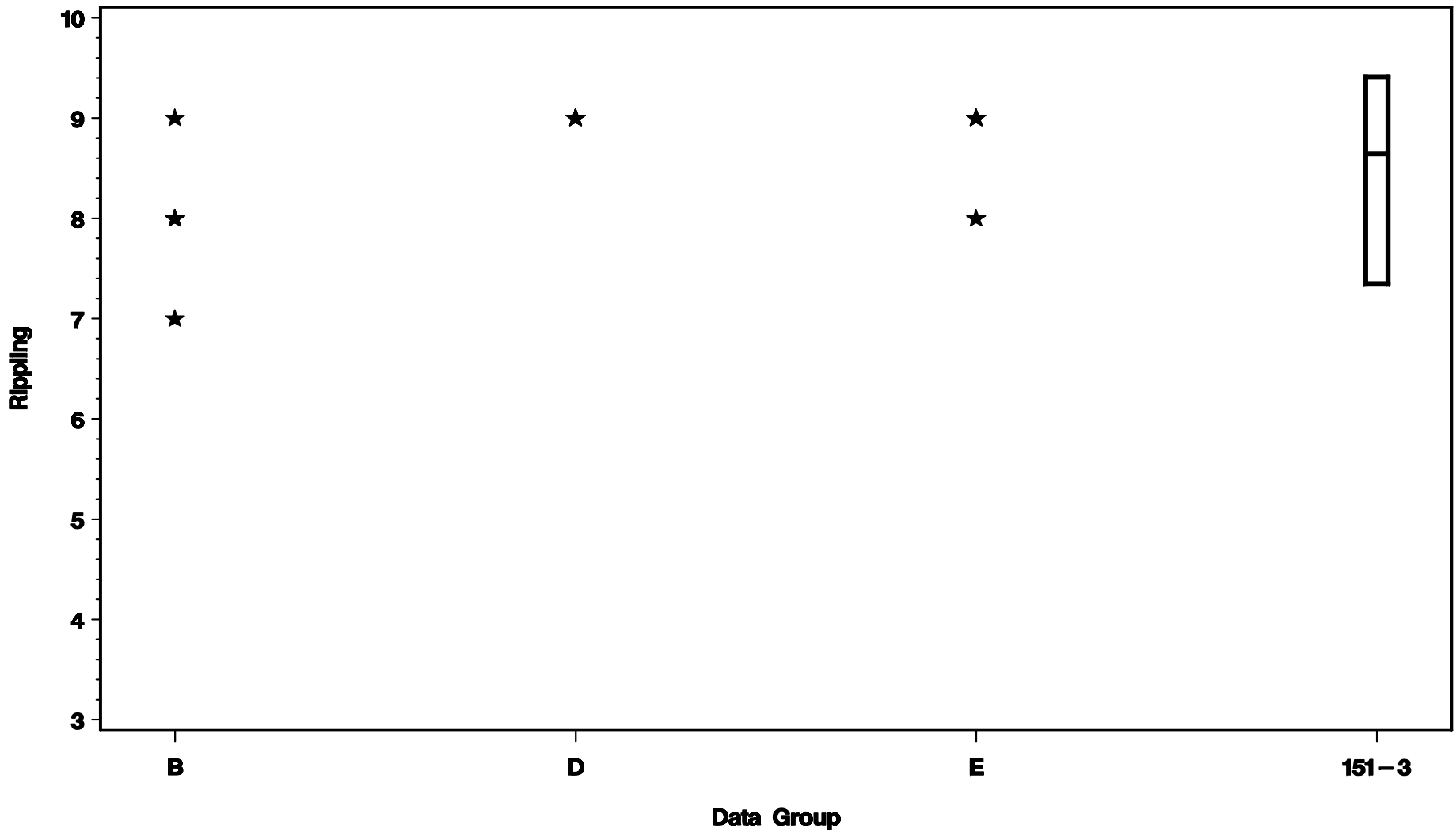


L-37 Lubrited Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 151-3 (Bands Include Merit Ratings of 8 & 9)

Pinion Rippling

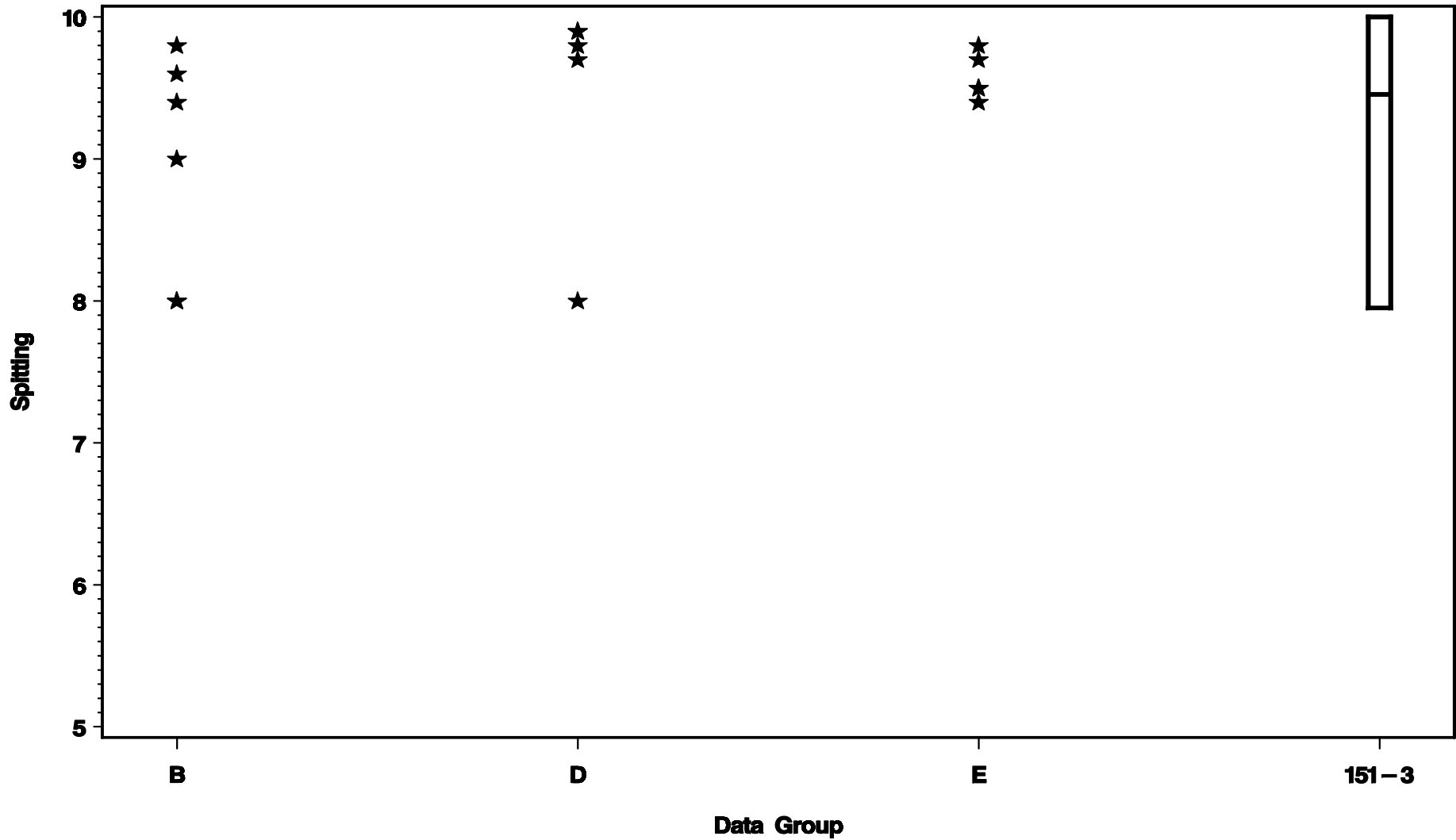


L-37 Lubrited Hardware, Pinion Batch L247/T758A

Test Target Data Set and Shewhart Severity Limits

Reference Oil 151-3 (Bands Include Merit Ratings of 8 Thru 10)

Pinion Spitting



CMIR	Lab	STD	Run	Oil	Pinbat	Ringbat	DTCOMP	Pwear	Pridg	Pripp	Pspit	Rwear	Rridg	Rripp	Rspit	lpcrat	fpccrat	Phase
49494	D	3A	49	128-1	L247	T758A	20031118	5	7	7	9.3	7	9	9	10	2	1	PHASE2
49495	D	3A	51	128-1	L247	T758A	20031121	6	7	8	9.5	8	7	9	9.9	3	0	PHASE2
49496	D	3A	84	128-1	L247	T758A	20040207	5	7	7	9.6	8	10	10	10	2	-1	PHASE3
49497	D	3A	99	128-1	L247	T758A	20040228	6	8	7	9	8	10	10	10	2	0	PHASE3
55172	D	3A	321	128-1	L247	T758A	20050407	5	8	5	9	8	9	9	10	2	1	PHASE5
46776	B	191	1884	128-1	L247	T758A	20031107	6	7	8	9	7	8	9	9.8	2	-1	PHASE2
46777	B	191	1885	128-1	L247	T758A	20031108	6	8	8	8	7	9	9	9.9	2	0	PHASE2
46933	B	191	1906	128-1	L247	T758A	20040312	6	7	8	9	7	8	9	9.8	2	0	PHASE3
46934	B	191	1908	128-1	L247	T758A	20040315	6	8	8	9	8	9	9	10	2	1	PHASE3
54417	B	191	2112	128-1	L247	T758A	20050323	6	8	8	8	7	8	9	9.8	2	1	PHASE5
49195	E	1	787	128-1	L247	T758A	20031105	6	8	5	9	7	9	9	8	2	0	PHASE2
49196	E	1	788	128-1	L247	T758A	20031106	6	8	4	8	7	9	9	9.9	2	1	PHASE2
50078	E	1	807	128-1	L247	T758A	20040327	6	8	5	7	7	9	9	9.8	2	0	PHASE3
50079	E	1	808	128-1	L247	T758A	20040328	6	8	4	8	7	9	9	9.9	2	0	PHASE3
54422	E	2	103	128-1	L247	T758A	20050405	6	8	7	9.9	7	9	9	9.9	2	0	PHASE5
54423	E	2	104	128-1	L247	T758A	20050406	6	8	7	9	7	9	9	9	2	0	PHASE5
54424	E	2	105	128-1	L247	T758A	20050407	6	8	7	7	7	9	9	9.9	2	1	PHASE5
49500	D	3A	53	151-3	L247	T758A	20031125	6	8	9	9.9	9	10	10	10	1	3	PHASE2
49501	D	3A	55	151-3	L247	T758A	20031127	5	8	9	8	8	9	9	9.9	3	1	PHASE2
50178	D	3A	85	151-3	L247	T758A	20040208	6	9	9	9.8	10	10	10	9.9	2	0	PHASE3
50179	D	3A	95	151-3	L247	T758A	20040222	5	9	9	9.9	8	10	10	10	2	0	PHASE3
50338	D	3A	285	151-3	L247	T758A	20050220	6	9	9	9.7	9	10	9	10	2	1	PHASE4
49044	B	191	1886	151-3	L247	T758A	20031110	5	9	8	9.4	7	10	8	9.7	2	1	PHASE2
49047	B	191	1910	151-3	L247	T758A	20040326	6	8	8	9.6	8	9	8	9.4	2	-1	PHASE3
50345	B	191	1911	151-3	L247	T758A	20040329	6	9	8	9	8	9	8	9.9	2	0	PHASE3
53450	B	191	2087	151-3	L247	T758A	20050208	6	9	8	8	7	10	8	9.5	2	0	PHASE4
53451	B	191	2088	151-3	L247	T758A	20050210	6	9	9	9.8	8	10	9	10	2	0	PHASE4
51850	B	191	2090	151-3	L247	T758A	20050212	6	9	7	8	7	10	7	9.5	2	0	PHASE4
46789	E	1	789	151-3	L247	T758A	20031107	6	9	9	9.7	7	9	9	9.9	2	0	PHASE2
49199	E	1	790	151-3	L247	T758A	20031111	6	9	9	9.8	7	9	9	9.9	2	0	PHASE2
49200	E	1	805	151-3	L247	T758A	20040325	6	7	9	9.5	7	9	9	9.9	2	0	PHASE3
49201	E	1	806	151-3	L247	T758A	20040326	6	9	9	9.4	7	9	9	9.8	2	0	PHASE3
50085	E	2	84	151-3	L247	T758A	20050224	6	9	8	9.5	7	9	9	9.9	2	0	PHASE4

