



Test Monitoring Center

6555 Penn Avenue
Pittsburgh, PA 15206-4489
(412) 365-1000

MEMORANDUM: 03-015

DATE: March 7, 2003

TO: L-37 Surveillance Panel

FROM: Donald Lind

SUBJECT: Gear Batch V1L303/P4L514A Ring Data Approval

On the February 25, 2003 L-37 Surveillance Panel conference call, the panel approved the updated non-lubrited hardware, gear batch V1L303/P4L514A reference oil targets. The approved updated reference oil test targets for this gear batch are shown in the tables below. Included on the plots are C1L308/P4L318R shewhart limits for comparison purposes.

Updated Reference oil 128-1 Test Targets (Pinion)		
Parameter	Mean	Standard Deviation
* WEAR	6.0	0.5600
* RIDGING	-0.928	0.2910
RIPPLING	-1.061	0.6113
SPITTING	-0.879	0.9203
SCORING	10.0	0.001

* Standard deviation modified to expand Shewhart bands

Updated Reference oil 128-1 Test Targets (Ring)		
Parameter	Mean	Standard Deviation
WEAR	7.0	0.779
RIDGING	-0.613	0.3607
RIPPLING	0.161	0.5318
SPITTING	0.333	0.4323
SCORING	10.0	0.001

These targets are effective for all tests completed on or after February 25, 2003.

DML/dml

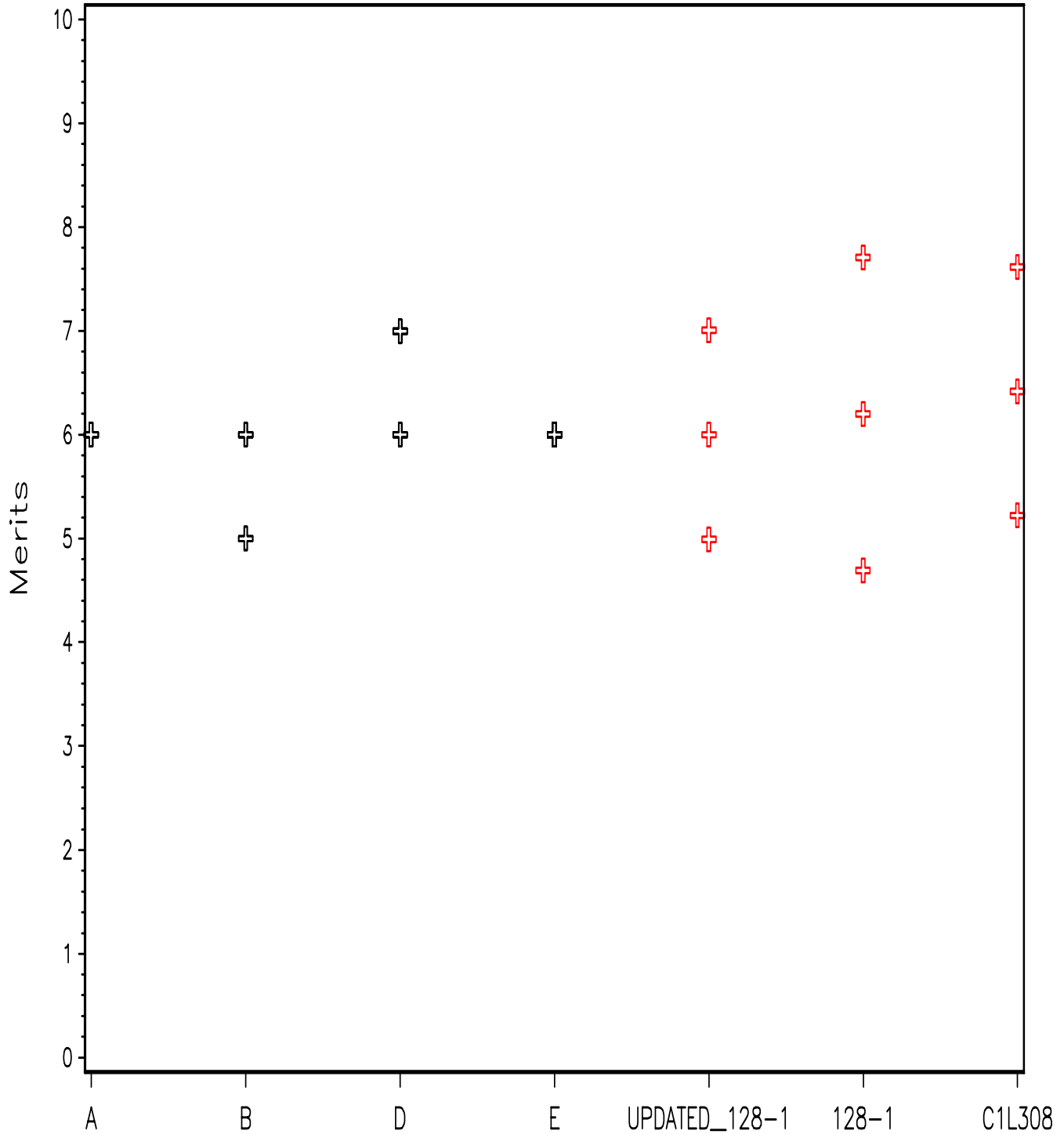
c: Frank Farber, TMC
John L. Zalar, TMC
David DuBois, PRI

<ftp://ftp.astmtmc.cmu.edu/docs/gears/l37/memos/mem03-015.pdf>

Distribution: Email

L-37 (Gear Batch V1L303/P4L514A)
Updated Reference Oil 128-1 Target Data Set and Shewhart Severity Limits

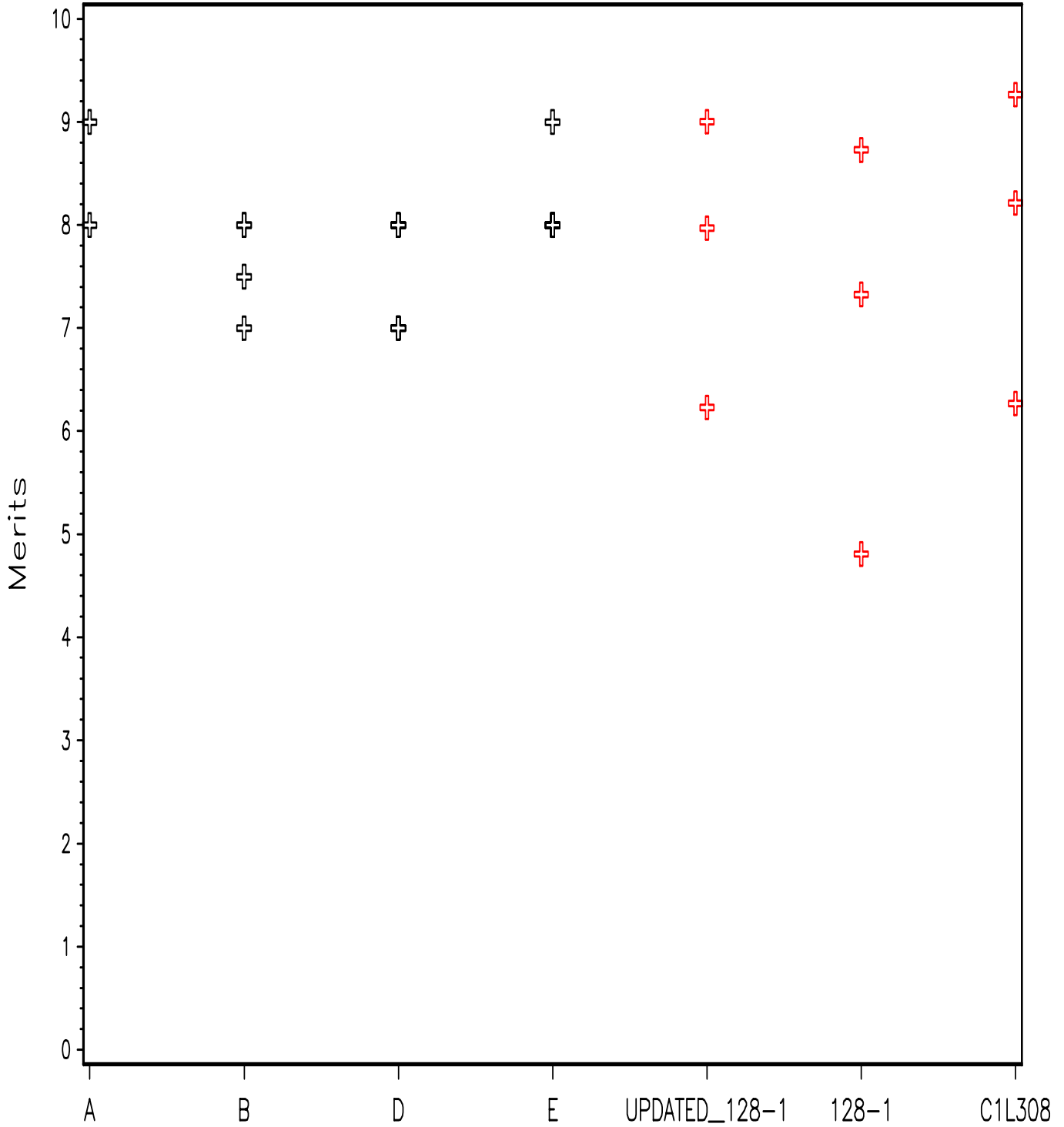
PINION - WEAR - NON-LUBRITED



Standard deviation modified to expand Shewhart band

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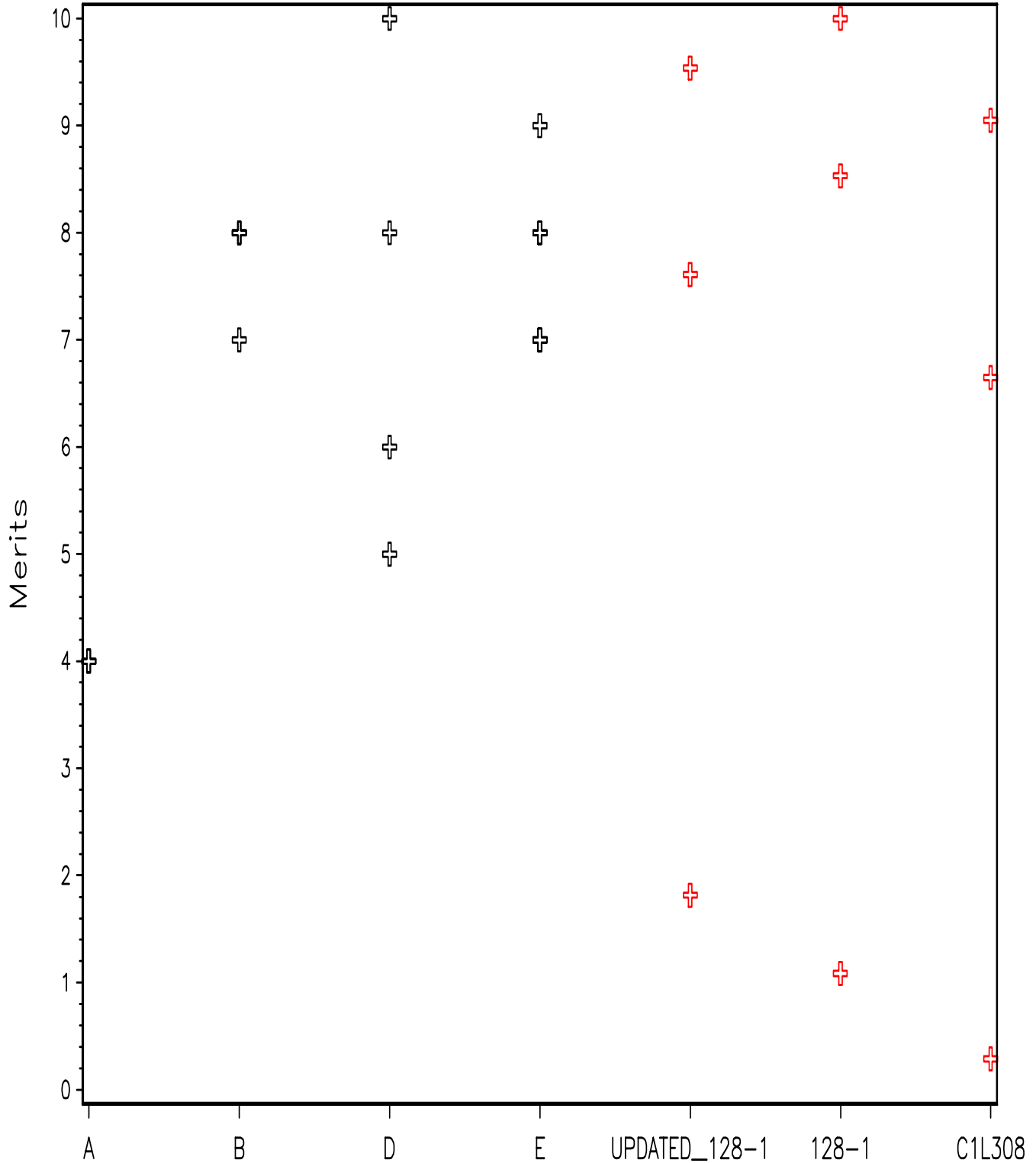
PINION - RIDGING - NON-LUBRITED



Standard deviation modified to expand Shewhart band

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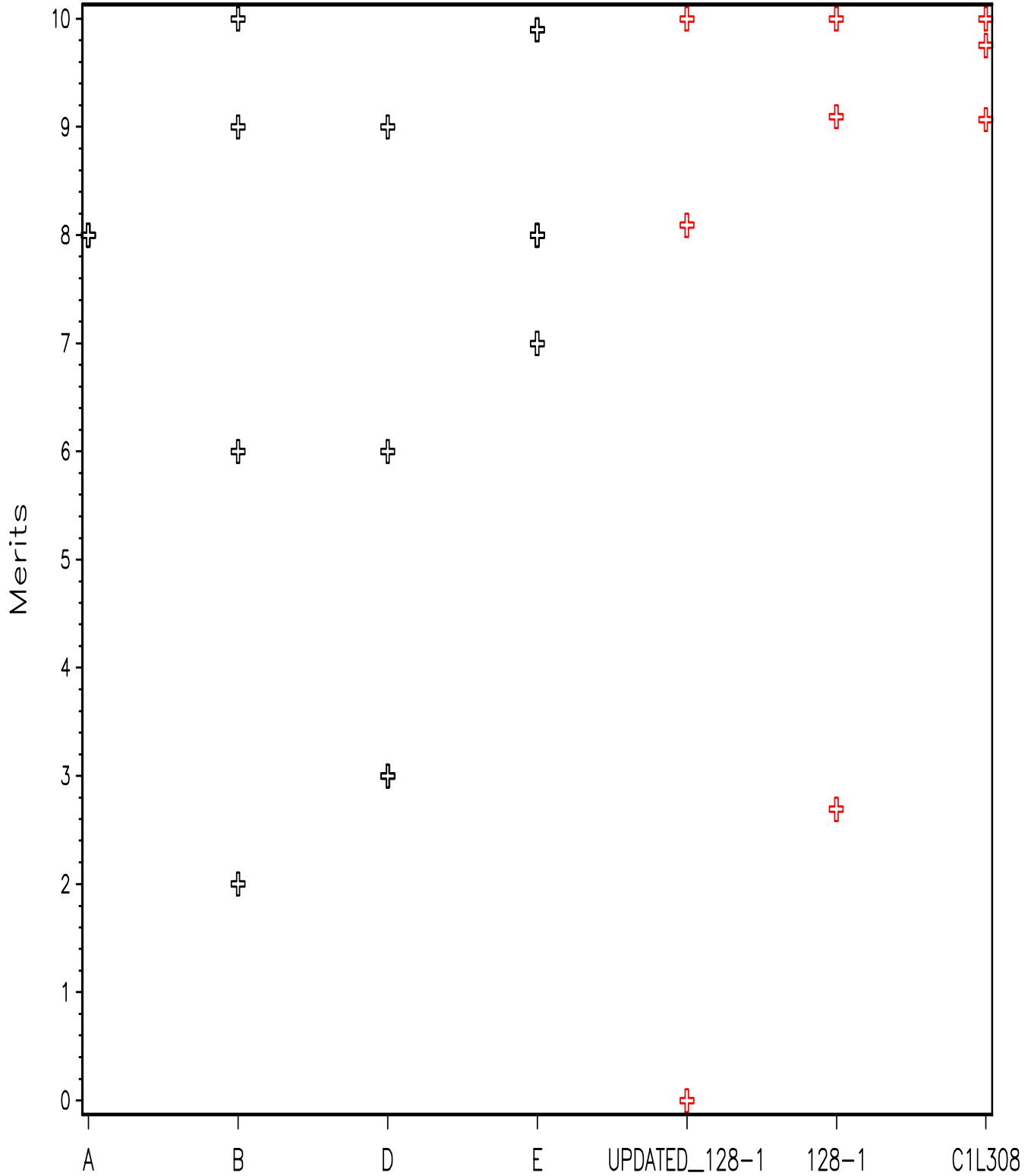
PINION - RIPPLING - NON-LUBRITED



L-37 (Gear Batch V1L303/P4L514A)

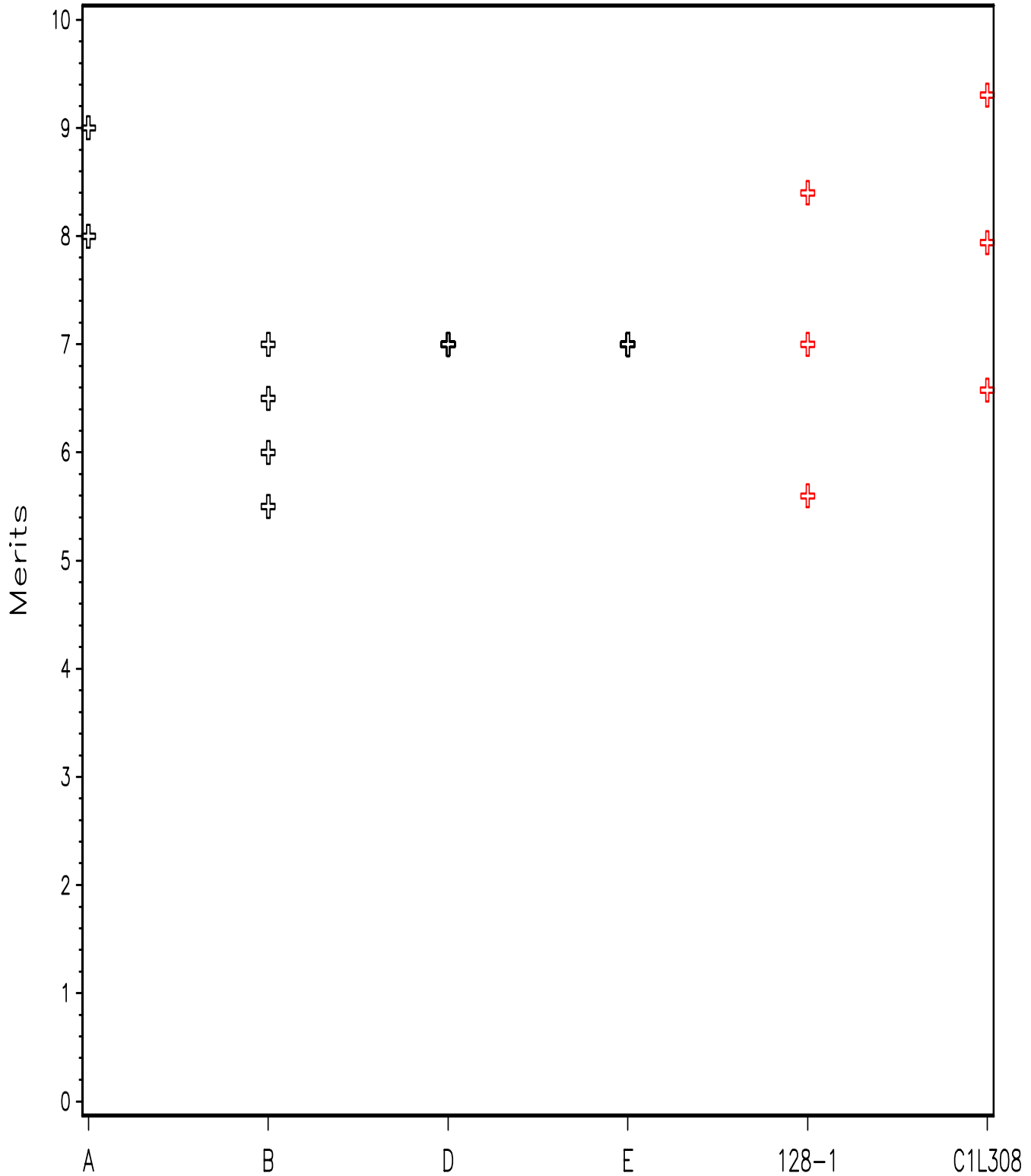
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PINION - SPITTING - NON-LUBRITED



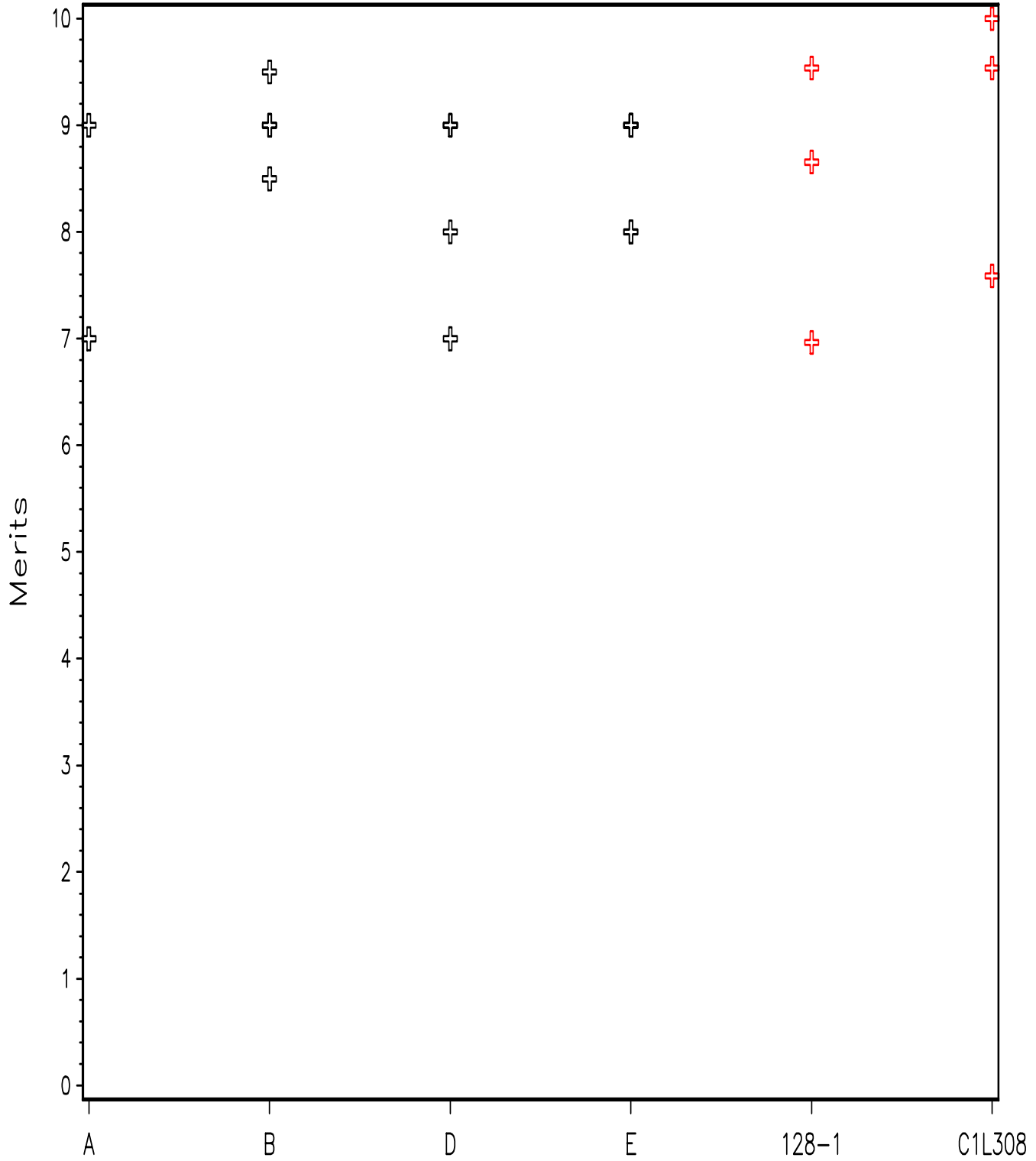
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Updated Reference Oil 128-1 Target Data Set and Shewhart Severity Limits

RING - WEAR - NON-LUBRITED



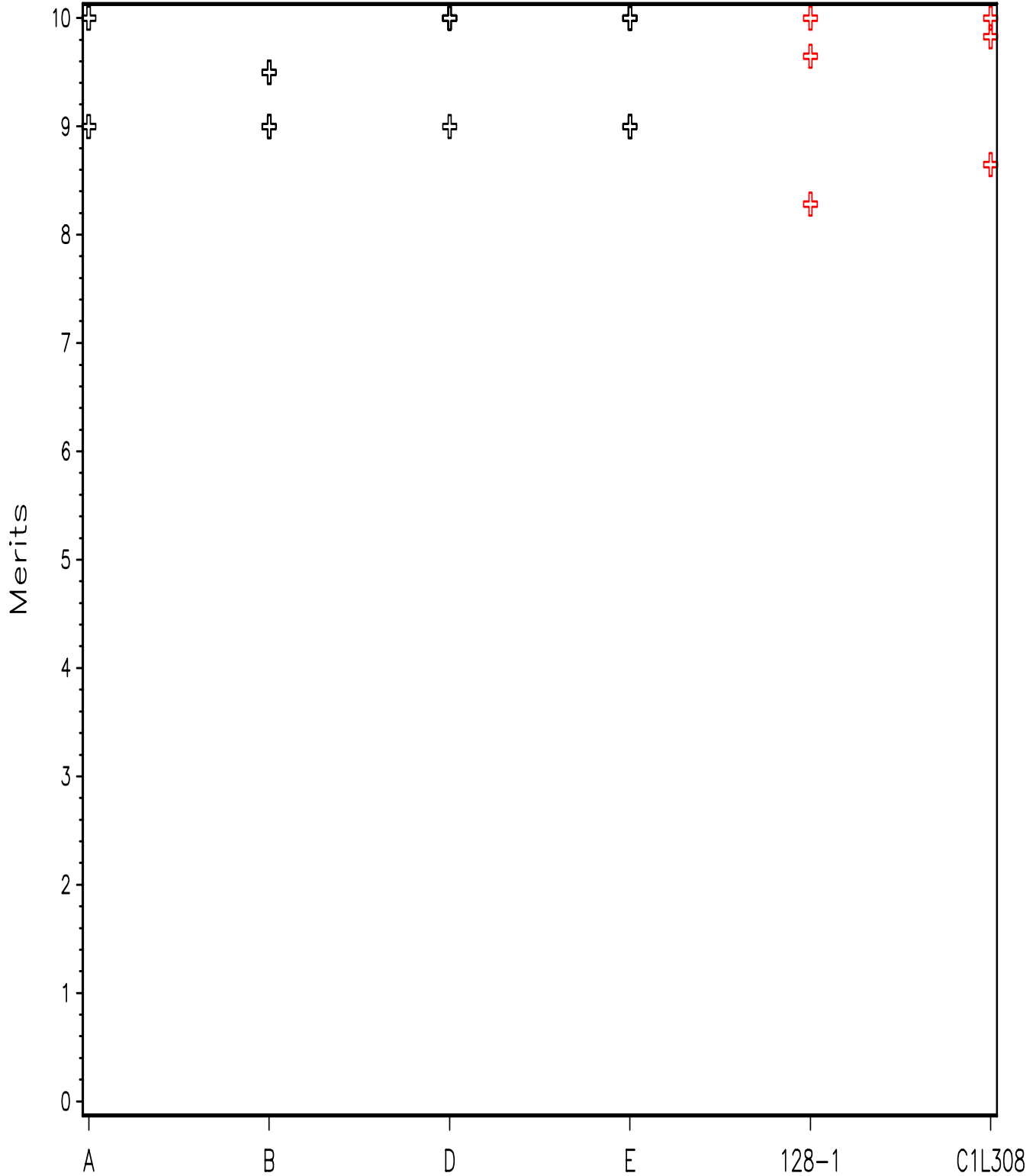
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RING - RIDGING - NON-LUBRITED



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RING - RIPPLING - NON-LUBRITED



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Updated Reference Oil 128-1 Target Data Set and Shewhart Severity Limits

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