



Test Monitoring Center

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MEMORANDUM: 07-045
DATE: August 8, 2007
TO: Cummins Surveillance Panel
FROM: Jeff Clark
SUBJECT: ISM Reference Oil Test Target Update

As approved by the Cummins Surveillance Panel, the twenty-one test targets for ISM reference oil 830-2 are shown in the table below. These targets are effective August 7, 2007. Attached is the ISM target dataset as well as plots showing the lab distribution for all test parameters. Please contact me if you have any questions.

ISM Reference Oil 830-2 Twenty-One Test Targets

Parameter	Mean	Std. Deviation
Crosshead Weight Loss – mg	5.1	1.5
Filter Plugging Delta P – ln(kPa)	2.5209	0.3274
Average Sludge Rating – merits	9.0	0.15
Injector Adjusting Screw Weight Loss - mg	29.5	5.7

JAC/jac /mem07-045.jac.doc

c: <ftp://ftp.astmtmc.cmu.edu/docs/diesel/cummins/memos/mem07-045.pdf>

Frank Farber
John Zalar

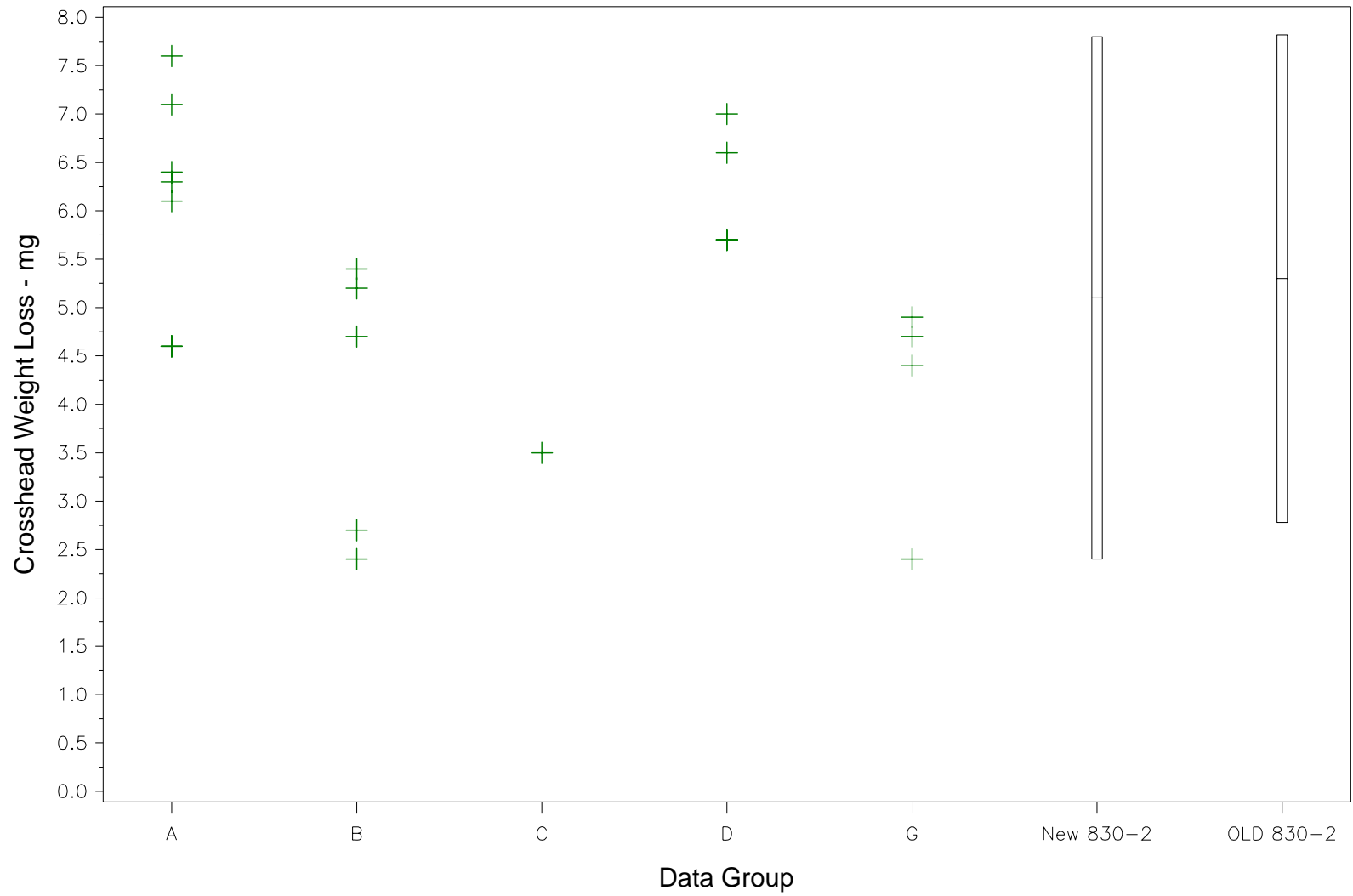
Distribution: email

**ISM Reference Oil 830-2
Twenty-One Test Target Dataset**

<u>CMIR</u>	<u>LAB</u>	<u>EOT</u>	<u>CWL</u>	<u>FPD</u>	<u>ASR</u>	<u>IAS</u>
47644	D	20040901	5.7	9	9.2	19.4
50224	A	20040903	4.6	10	9	35.5
51799	G	20040905	4.4	12	9.1	33.3
52996	B	20041002	2.4	7	9	25.9
52997	D	20041126	7	11	9.1	26.2
54195	B	20041219	4.7	13	9.1	29.2
54204	G	20041226	4.9	27	8.8	40.4
50226	A	20050709	6.4	6	8.9	36.7
55570	A	20050716	7.1	8	9	28.4
55571	A	20050730	6.1	10	8.7	27.6
52791	B	20060131	5.2	11	9.1	26.4
55568	G	20060409	4.7	14	8.8	32.3
54189	D	20060502	5.7	11	8.9	39.1
56718	A	20060612	6.3	12	9.1	36.9
56719	A	20060806	4.6	10	8.8	28.5
55572	B	20070228	2.7	20	9.2	24.1
55573	B	20070311	5.4	12	9.1	30.2
55574	D	20070429	6.6	14	8.9	27.1
55569	G	20070509	2.4	10	8.8	22.4
61892	C	20070615	3.5	20	9.2	24.6
54577	A	20070705	7.6	8	9	24.7

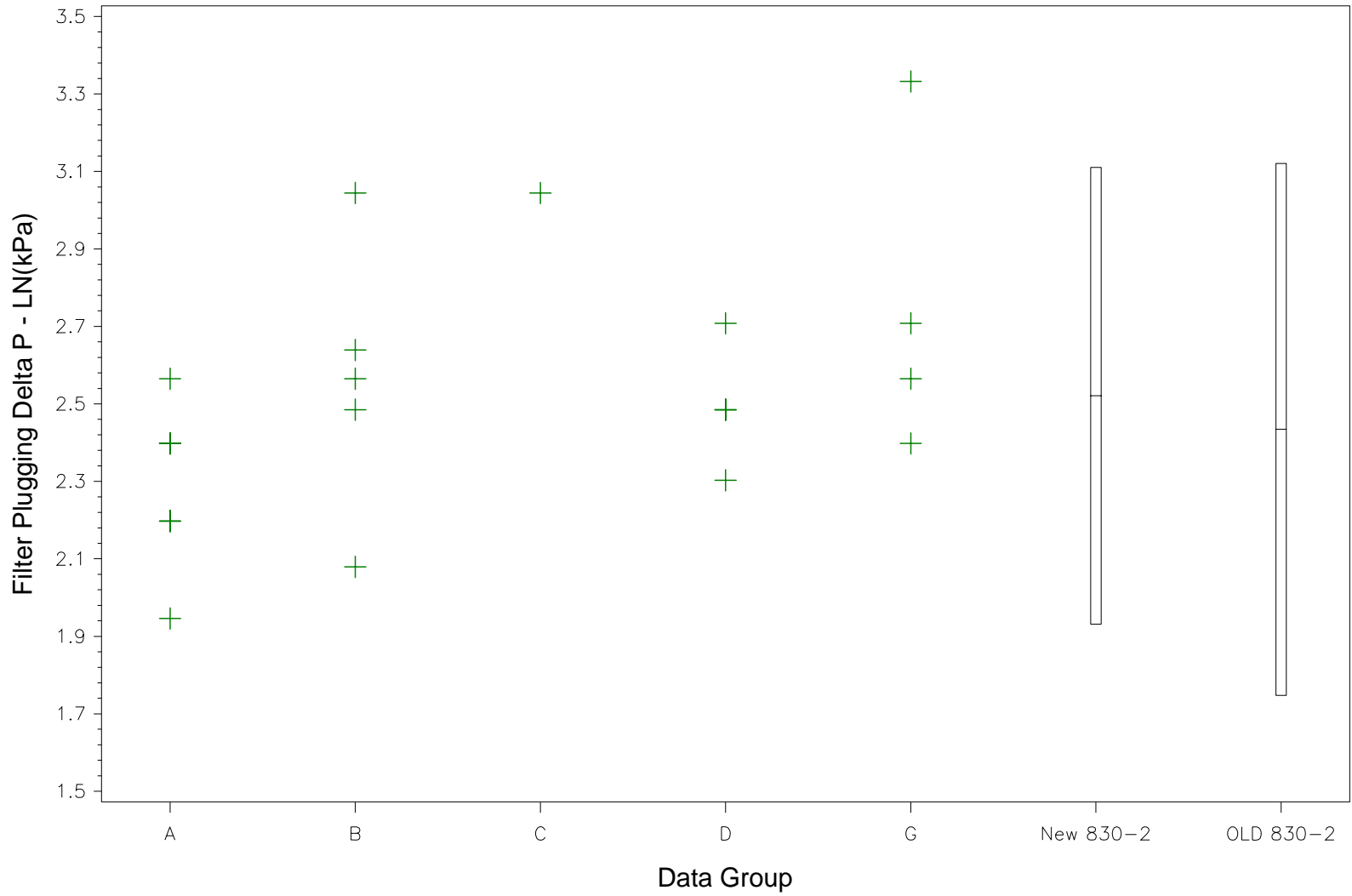
ISM: Reference Oil 830-2
Test Target Data Set and Shewart Severity Limits

Crosshead Weight Loss



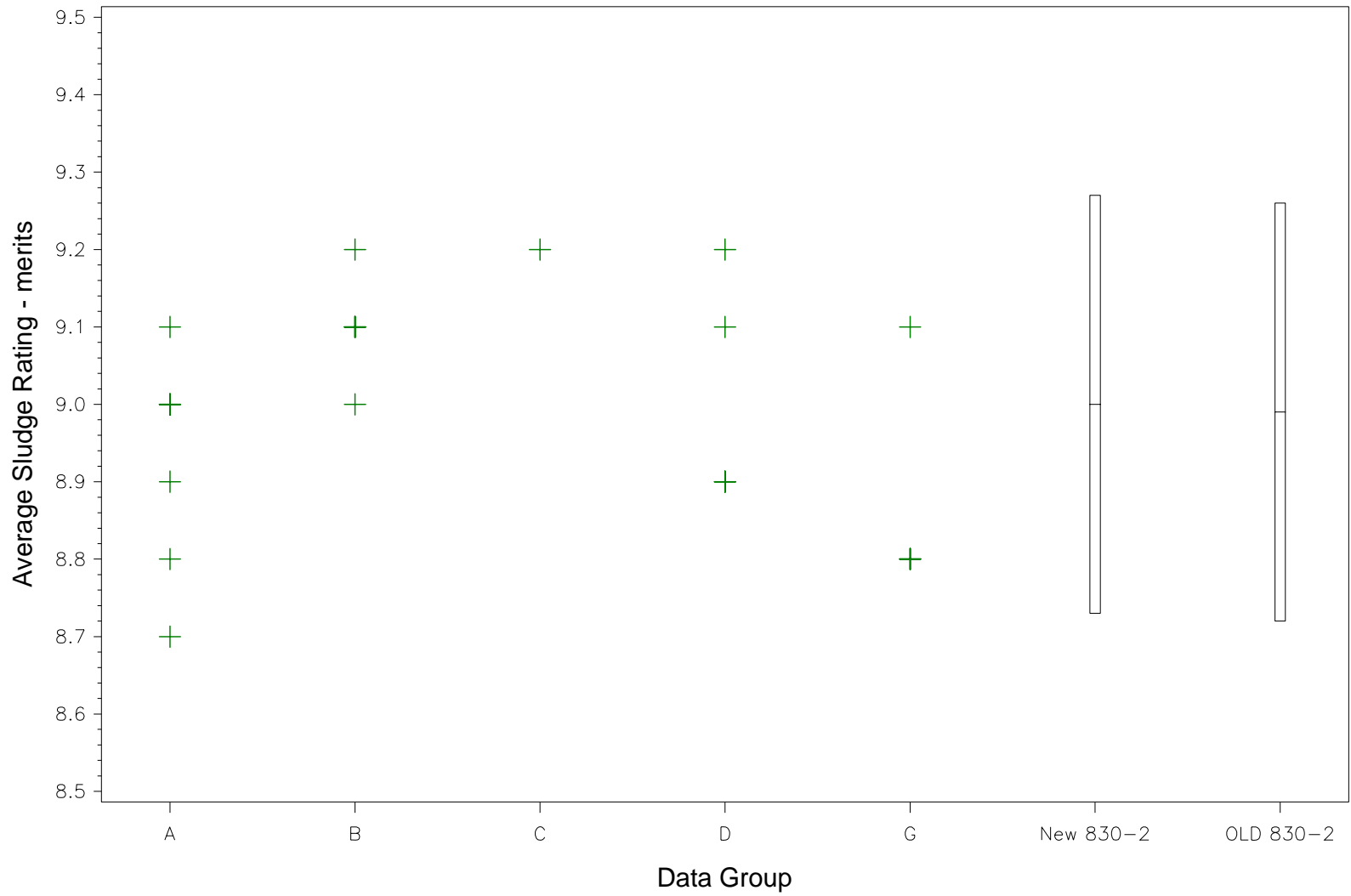
ISM: Reference Oil 830-2
Test Target Data Set and Shewart Severity Limits

Filter Plugging Delta P



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Test Target Data Set and Shewart Severity Limits

Average Sludge Rating



ISM: Reference Oil 830-2
Test Target Data Set and Shewart Severity Limits

Injector Adjusting Screw Weight Loss

