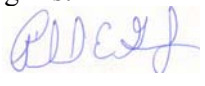




Test Monitoring Center

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

MEMORANDUM: 06-056
DATE: August 30, 2006
TO: Sequence IVA Mailing List
FROM: Richard E. Grundza 
SUBJECT: Analysis of Cam lot and Oil Impact on Severity

At the June 7, 2006 meeting of the Sequence IVA Surveillance Panel, the Test Monitoring Center was assigned an action item to evaluate the reference test data for potential differences between oils and cam lots. The following details the results of this analysis.

Figure 1 plots the average Δ/s ACW by cam lot. Figure 2 plots the average Δ/s by cam lot and oil, while Figure 3 plots average Δ/s by oil and cam lot, where more than one oil appears in the cam lot. Figure 4 shows the average Δ/s by oil. A total of twenty cam lots have been used for Sequence IVA testing. Of the twenty lots, ten have results on more than one oil. Statistical comparisons between cam lots did not identify any significant differences, while the same comparisons did identify significant differences between oils, when using ACW Δ/s . Figure 4 shows reference oil 1006 historically has been on or near target, with oil 1006-2 being severe of target and oils 1007 and 1009 were mild of target. Oil 1009 appears to be the mildest, historically.

REG/reg

Attachments

c: <ftp://astmtmc.cmu.edu/docs/gas/sequenceiv/memos/memo06-056.pdf>

Distribution: Electronic Mail

Figure 1

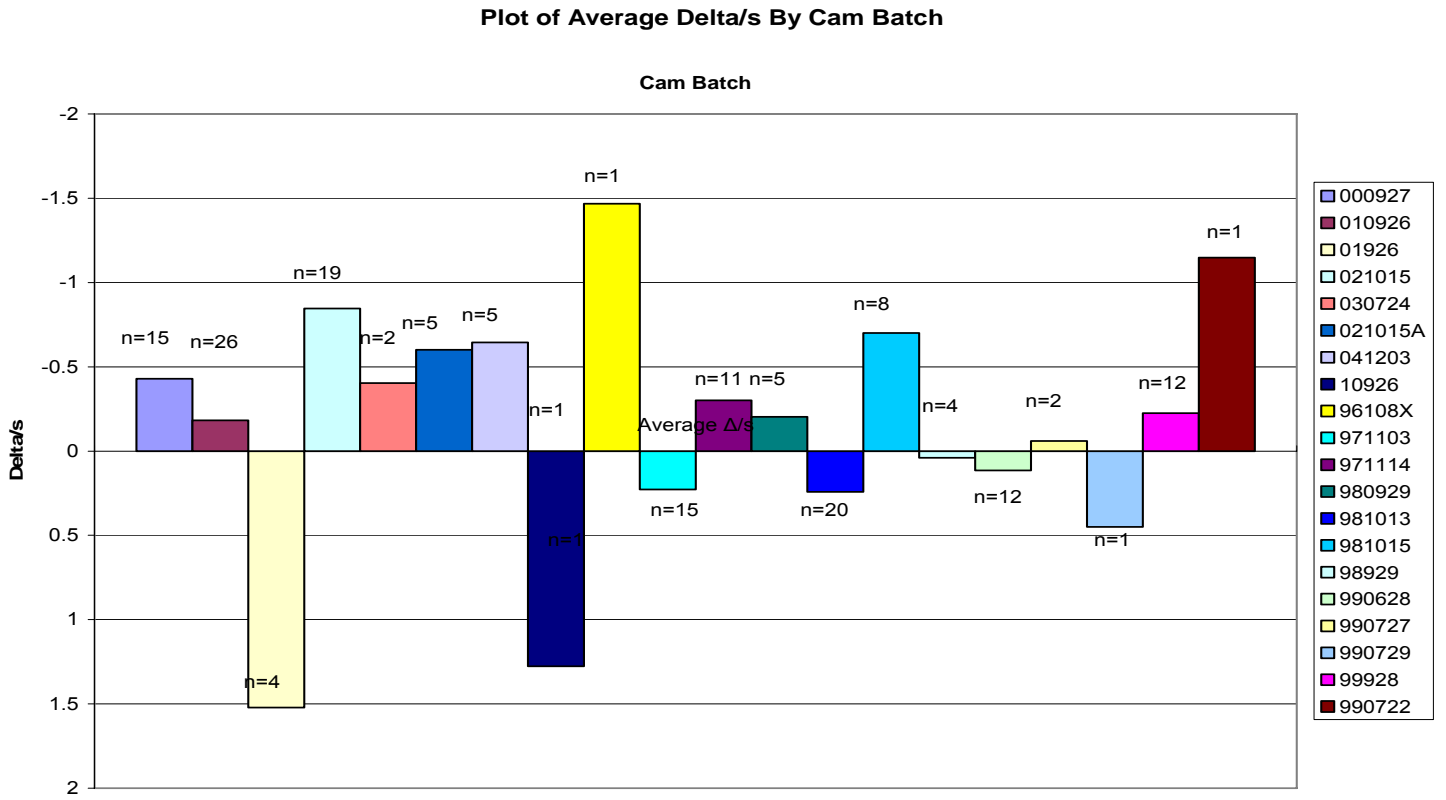


Figure 2

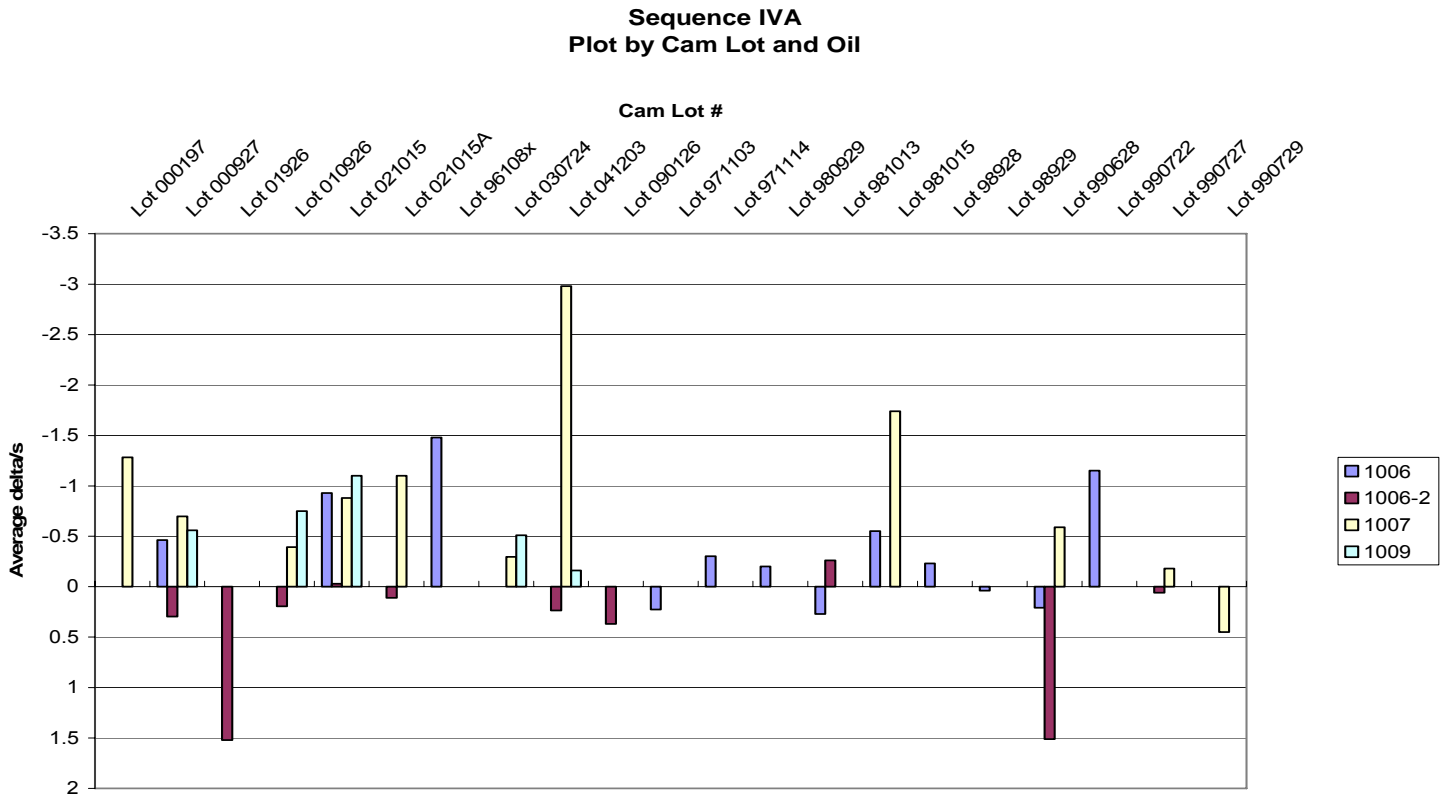


Figure 3

Sequence IVA
Plot of Cam Lot by Oil, Where More Than One Oil Per Lot

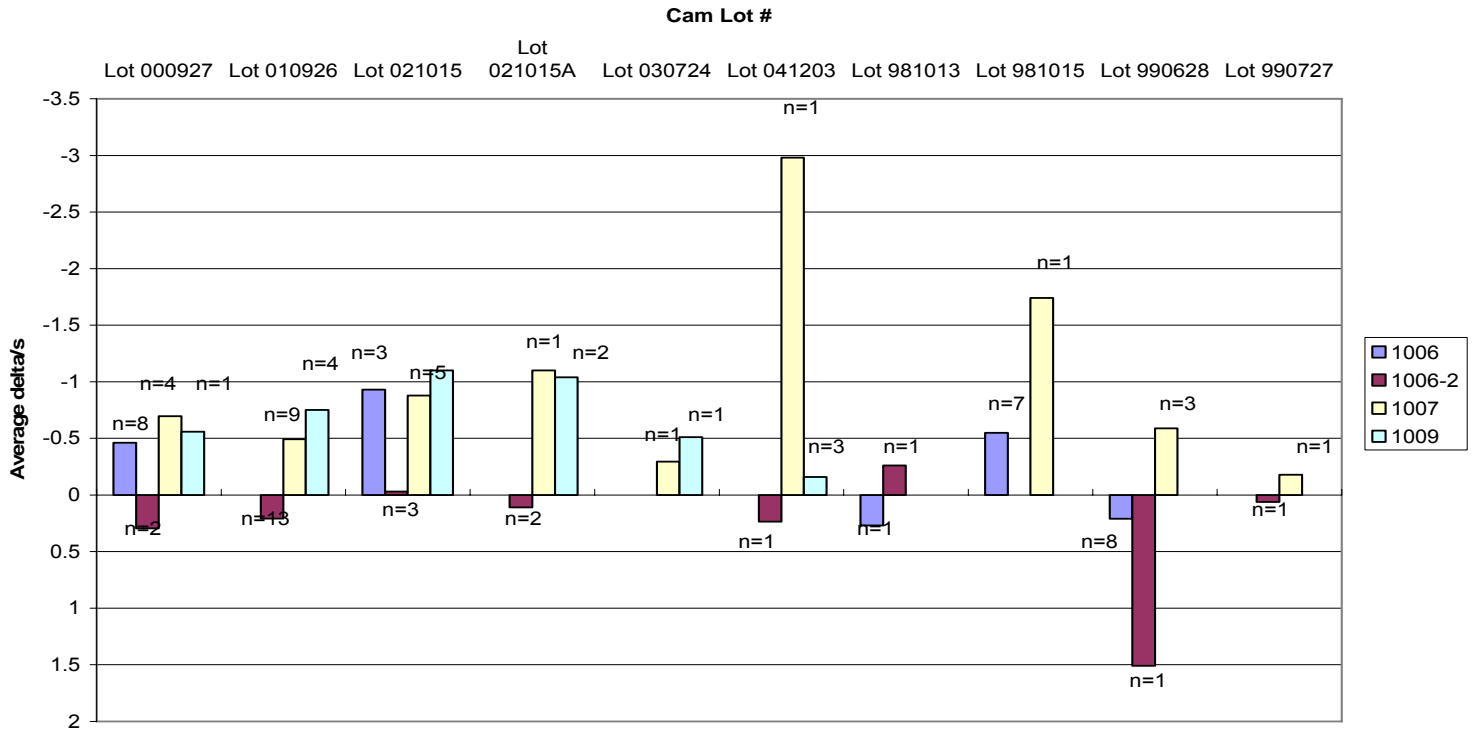


Figure 4

Sequence IVA
Average Delta/s by Oil

