August 9, 1979

Cadillac Q.C. Review on Formulas 734-161 and 38-27E

R.E. Nelson

L.E. Bretz

Attached is the revised writeup from Horst Becker covering the above subject. The revisions are minor and along the lines we discussed for purposes of clarification. These have been reviewed with Horst, and we believe this is about as complete as we can get at this time. It does represent a significant amount of work tracing back through all of the Q.C. records for some three years. This covers both incoming raw materials as well as checks on the finished product.

There are some differences shown on the attached friction curves for which we will not attempt to make any comments at this time. These are the facts as determined by the tests. The burnished data on the two Cadillac samples each of 734-161 and 38-27E are not on these plots as this data is not normally recorded and therefore is not available. The data is plotted for our three tests as these were run later, and the burnish data was recorded.

Delco sample 2P-9022 shows a specific gravity of 1.79, which is .02 below our specification. This reading was taken by Delco, which might account for this difference. We did not recheck the Gogan Hardness on this piece before cutting it up for testing. Delco sample 2S-9073 shows the acetone extract to be 2.6 with a specification of 2.5 maximum. Again, this was not rechecked as that was a Delco value.

It is suggested that after this is presented to Cadillac and/or Delco Moraine, they prepare a list of questions--as there will undoubtedly be many for us to review. Shortly after that there should be a meeting with them and our Q.C. people with the objective of hopefully resolving this issue.

R.E. Nelson

REN/mb

Attachments

P.S.: Frank Rice has not sent results of infra-red scan and other Mahwah tests. You might want to mention this will follow in your letter.

cc: H. Becker
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R.L. Cutler/FILE Cadillac
FILE Delco