Monsanto, Ill.

November 2, 1962

Dept. B-246 - Specifications
Pydraul A-200 - Low Temperature Viscosity

Messrs. R. Davis - B-2-S
E. E. Martin
R. C. Smith
J. F. Quinn - Res. 1
W. J. Gresham
R. J. Kuster
H. O. Hehner - B-2-S

To: Mr. K. L. McHugh
Org. Research

For about 8 months we have been considering the substitution of substituting low temperature viscosity for pour point as a Pydraul A-200 spec. This action was motivated by the fact the pour point determination does not adequately define our product. In addition, it is generally agreed that pour point of a non-petroleum fluid is not a precise value and poor test precision is to be expected.

It was suggested by Sales and Research that a specification of 800 centistokes at 50 Deg. F. be established as the maximum limit for the product. It is our understanding that Sales feels a low temperature fluidity is very important.

We suggested a 900 cs. max. After some discussion it was agreed that additional data be collected. We now find that after analyzing 15 lots that the 900 cs. max. would be a typical spec for our product.

Our statistical control people report that at 900 cs. we could expect that 99.3% of our material would pass. Only 93.2% would meet an 850 cs. max. specification. Our routine specifications are defined on three sigma limits, i.e. 99.7% of material should pass.

We feel that we have two courses of action. Either issue the specifications at 900 cs. max. or change the composition of Pydraul A-200. All of our work indicates the higher viscosity lots are the result of expected and normal variations in the Aroclor 1242 and 1248 blended to produce Pydraul A-200.

We would appreciate your comments as we would like to resolve this issue to everyone's satisfaction promptly. We fully understand that the customer's needs are the most critical in this matter.

P. E. Heisler

ghw

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