J.N. Haggart, Brussels

9 June 1970

N.T. Johnson/D.A. Hall, St.Loui.
E.P. Wheeler, St. Louis
L.R. Stark, St. Louis
P.J.A. Marsh, Brussels
D.S. Cameron, Brussels
K-H. Gaertner, Dusseldorf

DR. THOENES' VISIT TO U.S.

JNH:mcm

D.F. Smith - St. Louis

I visited Dr. Thoenes on 12 May and am just getting around to letting you know what went on.

Pydraul 2H1

From what I understand this is out of CECA spec on sheer stability but on shearing down the viscosity is still O.K. at the low temperature end. For this reason Dr. Thoenes will interceed with the Mining Board to get the product accepted.

He told us that he had spoken with you about his new dream product which should have 400cS at 5°C and 4cS at 100°C (Pydraul 282?) - how do you feel about this?

Dr. Thoenes learnt about strong acid for the first time in St. Louis and is very keen to get equipped with an apparatue to test for strong acid - this he will do. He told us that you recommend a strong acid value of zero which is useful information.

When he spoke with Lou he discussed a method for determining the presence of mineral oil in mining fluids and I believe you were going to suggest something. I suggest that Daimler Benz use an infra-red method. When do you think you can let me have this information? Thoenes mentioned that you were working on a new product with a high stability to be used as a compressor lubricant - any comment?

Toxicity of Mining Fluids

Prof. Malorney and his colleague Prof. Bente of Hamburg University who are the two Toxicoligists for the German mines are working on the effect of hot aerosols of [redacted] on rats. Exposure will be something like 5 [redacted] every 4 hours to simulate typical exposure conditions for a miner working with an equipment using a clutch. They will look for deposits in the blood and liver. The results

MONS 100048

./...

will be published in the fourth report of the CECA due out in 1971/72. This work has already been done with mineral oil and apparently no real hazards exist. If there is a hazard with Pydraul, Thoenes and the Mining Board will have to decide which is the greater risk that of fire in a mine or toxicity.

J.N. Haggart