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KW

The volumetric analysis shows it to be 48.05% tetra ethyl lead and gravimetric analysis gives 48.89% tetra ethyl lead. The difference is undoubtedly due to lead compounds other than tetra ethyl.

The specific gravity is 1.784 at 20° C. The fluid is probably 5-7 mix as that mix contained 49.5% lead when first made and had a gravity of 1.785. Although other mixes probably have a lead analysis somewhere near this figure, we can find no record of any of them with a specific gravity as high as this.

The fluid is very clear and remarkable free from sludge and the decomposition of lead is small considering the age of the sample.

Since ETHYL fluid at that time was prepared by measurement of volume rather than accurately weighing the material as we do today, probably the lead analysis may reflect the condition as it was at that time rather than the result of decomposition.

I thought you would like to have this for your information and I am passing copy of this letter along to Oscar Lewis, as he was very much interested in getting this information. I am also sending copy of this letter to Dr. Kenoe.

JHS:J

J. H. Schaefer

N 5573

CC: Mr. Oscar Lewis

Dr. Robert Kehoe

ETHYL GASOLINE CORPORATION

MANUFACTURING DEPARTMENT

DEEPWATER PLANT

INTER-OFFICE
CORRESPONDENCE

PENNS GROVE, N. J.

January 29, 1931

Mr. A. E. Mittnacht

Dear Mr. Mittnacht:

A few weeks ago Oscar Lewis left with us a can of ETHYL Fluid which he had obtained from the Aberdeen Proving Grounds at Aberdeen, Md. The can was of the old type which I believe was prepared at our Layton plant.

It is interesting to note the analysis of this material which we believe to be at least six years old.