

Miller Lane

ETHYL CORPORATION

INTER-OFFICE
PERSONAL AND CONFIDENTIAL CORRESPONDENCE

TO	Doctor Machle.	ADDRESS	New York.
FROM	A. W. Roberts.	ADDRESS	Mountainside, N.J.
SUBJECT	Lead in Air Test.	DATE	June 23, 1948.

PERSONAL AND CONFIDENTIAL

Dear Doctor Machle:

This is to report my observations of a Lead in Air test made on June 10th by Mr Borah of Foster D. Snell Company of 29 West 15th Street, New York City.

First, I would like to point out that during the trip from New York to the plant, the use of the Lead in Air analyzer was discussed particularly pointing out the value of blank tests between tests, and of making sure that all equipment was thoroughly clean before starting any test.

In spite of my discussion, Blank tests were not made but Mr Borah was sure that all the equipment was lead free before the tests were made because he had cleaned all the equipment at his company laboratory.

The first test was made by holding the pump at the dome cover with about an 8" suction hose with the suction end about $\frac{1}{2}$ " below the dome cover lip. First, about 80 gallons of gasoline was pumped into the tank then the sample was taken as the rest of the tank was filled. The first 80 gallons were run in the tank before the sample was taken to prevent the possibility of liquid gasoline splashing up and being taken into the suction. The result of this test was 4 micrograms/cu ft.

The second test was sampled from the same place, i.e. about $\frac{1}{2}$ " below the dome lip and under the same conditions as to the levels of gasoline in the tank but was made using a 12 foot length of rubber hose for suction and again the results showed 4 micrograms/ cu ft.

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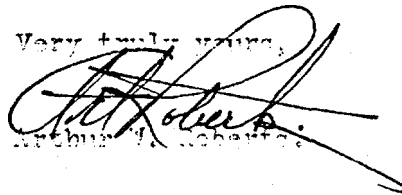
NEW YORK DIVISION

At my insistance, a third test was made using the 12' hose with the suction end tied to the tank loader's collar with this man standing at the point he usually stands in while loading. The results on this test showed 3 micrograms / cu ft.

When I suggested that we run a blank test, Mr Borah did not think it would be necessary since he had pumped out the air in the 12' hose by pumping air through it. He ~~did~~ did, however finally agree to run a blank and again pumped air through the hose to purge it. This blank test showed 1 microgram/cu ft.

It is my personal opinion that these test are worthless in the problem involved because the original samples which were taken with clean equipment were taken at a point where no man could or would remain for any more than a second or two and the third test should be disregarded because it was obviously made with contaminated equipment.

Very truly yours,


Arthur J. Schaeffer

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