

Mr. L. R. Fleck

New York

Mr. A. J. Baldwin

Eastern Region

Esso Standard Oil Co.

June 18, 1954

Ithaca, N.Y.

Elmwood Tank Cleaners-Contractors

Dear Van:

We are quoting below Bob Kimpton's remarks on his tank cleaning report dated June 12, 1954 covering tank No. 22, 21,000 bbl. capacity, for Esso Standard Oil Co., Ithaca, N.Y. This tank was cleaned on June 11th and the tests in his remarks were made the same day.

"To make a lead-in-air analysis of this tank, I used Elmwood Electric's safety equipment. Soon after I placed the mask on, the air coming through the hose burned my nose and eyes. I was in the tank about fifteen minutes getting a sample of air, all during this time my eyes burned. When I came out of the tank, I mentioned my experience to Mr. Trickey. He said the air coming out of the hose burned his nose and eyes when he was in the tank, but he said nothing to me until I mentioned it.

Mr. Meager also said there was something burning his face, after he came out of the tank. He mentioned the condition after he had been in the tank about two hours. Why he said nothing about it before or why he stayed in the tank while the air burned his skin is not known to me.

Due to the irritating air coming from the hose and the smell of decomposed product, I decided to make a lead-in-air test of the air coming from the hose. My air test showed a reading of between 12 & 15 micrograms.

As soon as I got this reading, I called our Mr. Baldwin in our New York Office. He informed me he would be talking to Mr. C. Hitchcock, President of Elmwood Electric Company, Buffalo, N.Y. and inform him of our finding and suggest that he flush out the hose and make sure there was nothing in the hose to contaminate the air.

On Sunday, June 13th, Mr. Hitchcock called me asking for details on our findings and reported to me that Mr. Russel Meager had called him reporting he was feeling ill and running a temperature. I called our Mr. Baldwin and reported my conversation from Mr. Hitchcock to him. He suggested I call Mr. Hitchcock Sunday evening to find out how Mr. Meager was feeling.

After noon Sunday, our Mr. Baldwin called me, asking that I call Mr. Hitchcock and have him give us for our inspection the three lengths of hose used on the Esso tank cleaning job at Ithaca, N.Y. I called him and

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he said we could have the hose for our inspection. I will pick up the hose and send it to our New York office, as soon as possible. A follow-up on this report will follow."

Under Item 27, on the face of the tank cleaning report, Bob has shown (2) as the reading for the airline hose test. I am sure this is an error since his verbal report and remarks gave the reading as 12 to 15.

We have additional information received, since above report, by phone.

Bob Kimpton picked up four lengths of hose Monday morning June 14th, and took them home. After they had been in the sun in his back yard a couple of hours, he hooked them up to his mask blower and took another air sample which also showed between 12 and 15 micrograms. Bob then looked the hose over carefully and found one length that could be considered in poor condition. He removed this section and made another test on the remaining three sections. The lead-in-air concentration was still between 12 and 15 micrograms.

I expect to be with Bob Monday, June 21st, when we will attempt to wash out one length and see if it can be cleaned. All hose will be retained and can be shipped to our Medical Department if they wish to do further test work on it. We have promised to replace any hose we retain, which is entirely satisfactory to Carl Hitchcock of Elmwood Tank Cleaners.

I talked with Carl Hitchcock on Monday, June 14th, and he reports that Russell Meager had only a cold and was back on the job. Carl had talked with Russell's doctor who diagnosed his illness as a light cold.

Carl also reported that the same crew was now on a tank cleaning job for Sun Oil at Renova, West Virginia with duPont in attendance. Carl had requested them to test the hose equipment on that job and found it to be OK.

Today, June 17th, George O'Connell is observing a tank cleaning job for Esso at Plattsburgh, N.Y. with another crew of Hitchcock's. I asked George to test the air from the hose on that job which he did and got a reading off the scale of our analyzer. He hooked up three lengths of "Ethyl's" hose to contractor's blower and sampled the air passing through it. It was practically a zero reading. George selected three or four lengths of contractor's hose which they said were the newest and had them washed thoroughly. A sample then indicated under 4 micrograms. Hose will be rewashed and retested. The other lengths will also be washed and tested and put back in service if and when they can be considered safe to use.

Very truly yours,



A. J. Baldwin

AJB:gh

CC: DR. K. V. KIEFEMILLER

MR. G. P. ROSSER

MR. R. W. KIPTON

MR. J. S. KRICK

145 0010188

for
Kehoe

ETHYL CORPORATION

Approved for Region

TANK CLEANING REPORT

By: *[Signature]*

(Including the entering of a leaded gasoline storage tank for any purpose)

Region Eastern

Owner of Tank: Esso Standard Oil Co.

8. Date This Report: June 12 1954

Location: N.Y.

9. Date First Entry: June 11 1954

1 by: S. L. Eddy
22

10. Date Job Completed: June 11 1954

on: Storage

11. Total Working Days: 1

Horizontal ☐ Vertical ☒ Floating Roof ☐ Other ☐

12. Ethyl Attendance at First Entry: Yes ☒ No ☐

els: 21.000

13. Total Days Attended: 1

14. Tank reported to be below combustible vapor hazard before entry for cleaning (or repair): Yes ☐ No ☒ Unknown ☐

15. What method used to remove vapor: Before Cleaning During Cleaning After Cleaning

Steaming

Natural Ventilation

Suction Type Air Mover

Blower

Other

16. Did foreman understand relative significance of "lead vapor hazard": Yes ☒ No ☐

17. Equipment in good condition and inspected by responsible individual before work began: Yes ☒ No ☐

18. Sufficient prescribed equipment on hand: Yes ☒ No ☐

19. Did E.C. lend any equipment: (If "Yes", list under REMARKS) Yes ☐ No ☒

If "Yes", did foreman O.K. condition: Yes ☐ No ☐

20. If tank entered, for what purpose: Cleaning ☒ Repair ☐ Other ☐

21. If cleaned, for what purpose: Routine ☐ Change of Product ☒ Contamination ☐ Repair ☐ Dismantle ☐ Other ☐

Comments: (*)

22. ETHYL TANK CLEANING PRECAUTIONS FOLLOWED IN EVERY RESPECT: Yes ☒ No ☐ (If "NO", explain under REMARKS)

23. At the conclusion of the cleaning—

a. Were all sludge and nonadherent material (including loose scale) that had been in contact with sludge removed: Yes ☒ No ☐

b. Did E.C. representative enter tank: Yes ☒ No ☐

c. Was an "Ethyl" Lead-in-Air Analyzer test made: (If "Yes", record data under Item 27) Yes ☒ No ☐

d. Was tank safe for entry without protective equipment from standpoint of lead hazard: Yes ☒ No ☐

24. Did or will men re-enter tank: Yes ☐ No ☒ (If "YES", for what purpose; describe under REMARKS and state further precautions taken or recommended.)

25. What service is tank returning to: Leaded ☐ Unleaded ☐ Dismantle ☐ Other ☒ (If "Other", explain under REMARKS.)

a. If "UNLEADED", do you recommend that Ethyl Tank Cleaning Precautions be followed on next cleaning: Yes ☐ No ☒

b. If "YES", has Unit of Authority been notified: Yes ☐ No ☐

26. Date and time cleaning completed: June 11 1954 4:30 PM

27. RESULTS OF "ETHYL" LEAD-IN-AIR ANALYZER TEST

Test Number	Date and Time of Test	Micrograms of Lead Per Cu. Ft. of Air	Remarks
62-85-1	6/11/54 3:30 PM	(1)	Blank run on Lead & Air machine
63-85-2	6/11/54 3:45 PM	(2)	Test on Tank
64-85-1	6/11/54 4:20 PM	(1)	Blank run on Lead & Air machine
65-85-2	6/11/54 4:35 PM	(2)	Test on air line from blower box.

28. REMARKS: List name or badge numbers (both if available) of all individuals who entered tank and total time spent by each person, as well as other pertinent information not elsewhere included.

Men who entered tank

2-3/4 hrs.

1/2 hr.

(*) This tank will be placed in fuel oil service if Esso does not get Aviation contract if they get contract it will go into aviation service.

(OVER)

Safety Engineer R.W. Kimpton

[Signature]

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