

November 21, 1939

Mr. J. C. Taylor
Ethyl Gasoline Corporation
Chrysler Building
New York, New York

Attention Mr. O. B. Lewis

Dear Mr. Lewis:

It will interest you to know that we finally have some light on the Cleveland cases.

We have completed the analyses of the samples from the Texas Company at Lockport, Illinois, sent to us by Ben Crane and the results are quite high. All of the samples show evidence of marked contamination with litharge, the total lead content being above 20% and the organic and presumably volatile lead content is also quite high.

In view of Crane's statement as to likelihood of draw-off of sludge in barge loading, this will furnish us with a partial explanation at least as to the source of the lead in the Cleveland tanks.

Very truly yours,

WM:vr

Willard Machle, M. D.

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UNIVERSITY OF CINCINNATI

COLLEGE OF MEDICINE

ANALYSIS NUMBER

39A-3401

DATE COLLECTED 4-3-1939

DATE RECEIVED 4-18-1939

DATE REPORTED 10-5-39

DESCRIPTION OF SAMPLE

Bottom Sludge

SOURCE OF SAMPLE

*The Texas Company
Lockport, Illinois*

REMARKS

*B. G. Crane - Chi - 339 - B.G.C.
Tank #2179*

REQUIRED

Pb detrm.

{ Organic
{ Inorganic

RESULTS

*Appearance of sample:**Black paste;**Alc. extr.: Reddish brown,
clear.**Xylol extr.: ~~4~~ Reddish-brown,
clear.*

Sample (dried) = 7.6 gm.

Mgs Pb in xylol-alcohol extraction = 3.65 mgs 0.00365 gms

Organic Pb = 0.037 %

Mgs Pb in nitric acid extraction = 1600.0 mgs 1.600 gms

Inorganic Pb = 21.0 %

LABORATORY OF APPLIED PHYSIOLOGY

UNIVERSITY OF CINCINNATI

COLLEGE OF MEDICINE

ANALYSIS NUMBER

39A-1207

DATE COLLECTED FEB 11 1939

DATE RECEIVED MAR 1 1939

DATE REPORTED 10-6-39

DESCRIPTION OF SAMPLE

Sludge from bottom of tank after
flushing with water & pumping for 3 days.

SOURCE OF SAMPLE

The Texas Company
Lockport, Illinois
Tank # 2178

REMARKS

Chi. - 139 - S. G. Crane

Appearance of sample:
Black creamy paste.
alc. extr.: light red, clear
Xylol extr.:

REQUIRED

Pb detrm.

(Organic
(Inorganic

RESULTS

Sample (dried) = 7.0 gms.

Mgs Pb in xylol-alcohol extraction = 6.70 mgs 0.00670 gms

Organic Pb = 0.096 %

Mgs Pb in nitric acid extraction = 1680.0 mgs 1.680 gms

Inorganic Pb = 24.0 %

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LABORATORY OF APPLIED PHYSIOLOGY

UNIVERSITY OF CINCINNATI

COLLEGE OF MEDICINE

ANALYSIS NUMBER 39A-3402

DATE COLLECTED 2-11-1939

DATE RECEIVED 2-1939

DATE REPORTED 10-5-39

DESCRIPTION OF SAMPLE

Scale from side walls of tank water

SOURCE OF SAMPLE

Content is from front on tank plates

REMARKS

Texas Co.
Lockport, Ill.
Chi-239-B. B. Crane
Tank # 2178.

Appearance of sample:
light brown paste + brown
scale.
Alec. extr.: lt. yellow, clear.
Xylol extr.: colorless, clear.

REQUIRED

Pb detrm. (Organic
(Inorganic

RESULTS

Sample (dried) = 8.5 gm.

Mgs Pb in xylol-alcohol extraction = 0.59 mgs 0.00059 gms

Organic Pb = 0.007 %

Mgs Pb in nitric acid extraction = 2100.0 mgs 2.100 gms

Inorganic Pb = 24.7 %