



Reorder No. 912 $\frac{1}{3}$

PARK BRAND FOLDER
MEDIUM HEAVY WEIGHT

HARTFORD, CONNECTICUT
STANDARD OIL COMPANY OF
NEW JERSEY

#2

KE 0017187

0.25% tetraethyllead which is very high.

There were three men on the job and all were ill so if the inherent psychologic nature of the men is Zeboski spent the most time within the tank but deBert highest concentration of lead.

3 men involved on job
3 men used mask only part time
3 were ill

Factors responsible:

1. Failure to wear mask
2. High concentration of organic lead in

11- 1-1963

Lester W.

KE 0017188

10 grams of each material were extracted with ether. This fraction gave organic lead. The residue was then extracted three times with 1:1 ether and gave most of the inorganic lead. The residue was then dried and ignited in the Muffle furnace, dissolved in 1:1 hot hydrochloric acid and gave lead. After the preparation of the fractions, the results each were made according to our usual procedure.

Results

A. Dirt beneath manhole and pipe connection.

1. Ether extract of 10.00 grams (Organic)

Pb found - 3.80 mgs.
% Pb found - 0.038%

2. Nitric Extract (10.00 grams) Inorganic

Pb found - 46.00 mgs.
% Pb found - 0.46%

3. Residue (10.00 grams) Balance of Inorganic

Pb found - 0.57 mgs.
% Pb found - 0.006%

Total lead found in sample - 50.37 mgs.

% lead - 0.50%

Lead calculated as lead tetraethyl

% lead tetraethyl

B. Bottom scale and sludge.

1. Ether extract (10.00 gms.) Organic lead

Pb found - 25.00 mgs.
% Pb - 0.25%

2. Nitric Acid extract (10.00 gms.) Inorganic

Pb found - 318.00 mgs.
% Pb - 3.18%

C. Wall Scale

1. Ether extract (10 grams) Organ

Pb found - 2.20 mg
% Pb - 0.02%

2. Nitric Acid Extract (10 grams)

Pb found - 90.00 m
% Pb - 0.90%

3. Residue (10 grams) Balance of

Pb found - 1.63 mg
% Pb - 0.016 %

Total lead found - 93.83 m

% lead - 0.94 %

Pb calculated as lead tetraethyl

% Pb tetraethyl

Note These samples were taken at least 10 d
been cleaned. During these ten days t
posed to the atmosphere and considerab
ethyl had evaporated in the meantime.
been converted to inorganic salts, as
It is safe to say that most of the inc
of cleaning had existed as lead tetrae
were therefore calculated on this basi
reason to assume that the amount of le
of cleaning was several times the amou
were submitted.

KE 0017190