

*Exposure to lead gasoline
Cross file - surveillance lead analyses*

Source: Employees of British-American Oil Company, Edmonton, Alberta, Canada

Material: Urine and Blood

History: [REDACTED] was exposed to vapors of several gallons of gasoline which contained 70% Antiknock compound in a room for 15 minutes with door and window open. The other men had an unknown exposure to the same concentration in the open. The samples were collected 20 days after exposure.

Submitted: 11-13-53 by Dr. L. W. Sanders for Dr. R. F. Taylor

Required: Lead Analyses

KE 0012391

Name	URINE			BLOOD				
	Analysis Number	Volume ml.	Mg. Pb/ Liter	Analysis Number	Spectrographic		Dithizone	
					Weight Grams	Mg. Pb/ 100 g.	Weight Grams	Mg. Pb/ 100 g.
[REDACTED]	53A-8563	78	0.07	53A-8564			11.6	0.035
[REDACTED]	53A-8569	40	0.04	53A-8570	10.9	0.03	13.4	0.03
[REDACTED]	53A-8565	118	0.09	53A-8566			15.8	0.04
[REDACTED]							20.8	0.03
[REDACTED]	53A-8571	127	0.04	53A-8572	14.8	0.04	15.3	0.03
[REDACTED]	53A-8567	160	0.03	53A-8568	8.3	0.04	14.8	0.02

Samples Collected: 11-2-53
Samples Received: 11-13-53
Samples Reported: 11-20-53

Dr. R. F. Taylor
c/o British-American Oil Company
Edmonton, Alberta, Canada

Dear Doctor Taylor:

The analytical results on the samples of urine and blood taken from the men who had potential exposure to tetraethyl lead on or about October 12, are enclosed.

The results are within normal limits and would indicate that there had been no recent significant exposure to lead. The samples were taken unfortunately (and I know unavoidably) too late to show any minor absorption of tetraethyl lead and it is entirely possible judging from the conditions of exposure that at least one man may have taken in a little lead even though the samples taken some 20 days after exposure do not show it.

We can be sure that no damage was done and that the lead levels are now within a "normal" range.

Very truly yours,

LWS:vr

Lester W. Sanders, M.D.

Encl..

cc - Dr. R. A. Kehoe ✓

N13232.01

KE 0012692

Was in contact with tetra ethyl
lead.

Physical

Laboratory

Impression

Treatment

Studies Desired

N13232.02

KE 0012693

Was in contact with tetra ethyl
lead.

Physical

Laboratory

Impression

Treatment

Studies Desired

N13232.03

KE 0012694

Was in contact with tetra
ethyl lead.

Physical

Laboratory

Impression

Treatment

Studies Desired

N13232.04

KE 0012695

Was in contact with tetra ethyl
lead.

Physical

Laboratory

Impression

Treatment

Studies Desired

N13232.05

KE 0012696

Was in contact with tetra ethyl
lead

Physical

Laboratory

Impression

Treatment

Studies Desired

N13232.06

KE 0012597