

March 9, 1950

Dr. Ward C. Meyers,
Medical Service,
Kimble Glass Company,
Division of Owens-Illinois Glass Co.,
1510 N. Westwood Avenue,
Toledo, Ohio.

Dear Doctor Meyers:

The results of these analyses, individually and collectively, demonstrate that the exposure to lead on the part of these men is being kept within generally safe limits. The average of the results on the urine is 0.11 mg. per liter, which is satisfactory as an expression of group exposure.

On the other hand, there are three men whose blood samples show lead concentrations that are potentially dangerous, - namely, [REDACTED] and [REDACTED]. It will be noted that two of these men have given evidence of relatively high concentrations of lead in their urine, while the third (Operacz) is just a little below (0.10 mg. per liter) the average value for the group. The latter, no doubt, is an expression of variation in lead concentration in different samples of the urine, of the same individual, the possible range here being from 0.02 to 0.24 or thereabouts, if small samples were taken repeatedly throughout some considerable period of time (several days). (The concentration of lead in the blood is much less variable from hour to hour or from day to day, and except for its relatively narrow range in association with different degrees of severity of exposure and absorption, there would be little point in determinations on the urine.)

Any individual whose blood yields a concentration in excess of 0.075 of lead per 100 grams by either method of analysis, should be looked at with some suspicion, and efforts should be made to reduce the exposure of such an individual by environmental control, or by his exercise of greater care on his part if there is evidence that personal habits may be at fault.

Cordially yours,

Robert A. Kehoe, M. D.

RAK ef

C.C.: Mr. William G. Hazard

KE 0003726

N 6701

Source:

Employees of Kimble Glass, Division of Owens-Illi
Glass Company, P.O. Box #1035, Toledo 1, Ohio

Material:

Urine and Blood

Submitted:

2-16-50 by Dr. Ward C. Meyers, Medical Service

Required:

Lead Analyses

Name	URINE				BLOOD		
	Analysis Number	Volume ml.	Sp.Gr.	Mg. Pb/ Liter	Analysis Number	Spectrographic Weight Grams	Mg. Pb/ 100 g.
[REDACTED]	50A-2123	80	1.018	0.14	50A-2124	9.3	0.06
[REDACTED]	50A-2125	100	1.021	0.13	50A-2126	15.2	0.05
[REDACTED]	50A-2381	114	1.002	0.06	50A-2147	7.9	0.05
[REDACTED]	50A-2127	100	1.020	0.11	50A-2128	16.8	0.055
[REDACTED]	50A-2129	100	1.017	0.02	50A-2130	15.1	0.06
[REDACTED]	50A-2131	100	1.019	0.15	50A-2132	10.0	0.045
[REDACTED]	50A-2133	100	1.021	0.15	50A-2134	15.0	0.06
[REDACTED]	50A-2135	103	1.019	0.02	50A-2136	14.2	0.055
[REDACTED]	50A-2137	100	1.018	0.10	50A-2138	15.0	0.075
[REDACTED]	50A-2139	58	1.020	0.11	50A-2140	18.6	0.055
[REDACTED]	50A-2141	100	1.023	0.11	50A-2142	16.2	0.045
[REDACTED]	50A-2143	100	1.021	0.17	50A-2144	15.4	0.06
[REDACTED]	50A-2145	68	1.021	0.13	50A-2146	14.9	0.055

Samples Reported: 3-4-50