

of urine and blood submitted by Dr. L. L. Baker, Wood River, Illinois (Shell Oil Company)

URINE					BLOOD	
Analysis No.	Volume (ml)	Mg Pb/Liter	Analysis No.	Grams	Mg Pb/100 g	
40A-3661	100	0.035	40A-3662	19.0	0.03	
40A-3671	100	0.020	40A-3672	18.0	0.035	
40A-3673	100	0.040	40A-3674	15.5	0.040	
40A-3675	100	0.030	40A-3676	17.9	0.035	
40A-3677	100	0.020	40A-3678	18.0	0.035	
40A-3679	100	0.030	Lost in shipment			
40A-3680	100	0.020	40A-3681	18.2	0.030	
40A-3682	100	0.045	40A-3683	16.7	0.025	
40A-3684	100	0.030	40A-3685	15.6	0.035	
40A-3686	100	0.050	40A-3687	19.5	0.045	

Samples received: October 12, 1940

Samples reported: October 21, 1940

October 25, 1940

Dr. L. L. Baker
Shell Oil Company, Inc.
P.O. Box 262
Wood River, Illinois

Dear Doctor Baker:

We are sending herewith the report on the analyses of samples of urine and blood received on October 12, 1940.

These results establish that these men have had no recent significant lead exposure, as they are all within normal ranges.

As it has been some months since [redacted] and [redacted] have worked in the Treating Department, it is not to be expected that they would now show high levels of excretion. In the case of the other men, the results establish that these men do not have any abnormal lead exposure as a result of their present occupation.

When one considers the active clinical findings on [redacted] and [redacted] in relation to the results of the analyses of blood and urine, one is led to the conclusion that their symptoms are not the result of lead absorption. The presence of active symptoms of lead intoxication is in our experience invariably associated with elevated levels of urinary lead excretion and high levels of lead in the blood.

In view of the entirely negative results obtained on these samples, you may wish to reconsider your early decision of having your men examined. On the other hand, should you adhere to your original expression, it will be possible for us to carry these out for you and we are prepared to discuss the arrangements with you. If the men on whom these samples were obtained represent the usual conditions of work and exposure in your Treating Operation, then it would seem that your operation is free from actual hazard. The exposure that these men have had is no greater than that experienced by normal individuals. If it seems likely that there will be difficulties with the men or that medico-legal questions may arise, it would be of utmost importance for you to be prepared with adequate medical records on the entire group.

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As Dr. Gehoe has probably advised you, these should comprise a complete history and physical examination, certain hematologic studies and sufficient data on the blood-lead levels and urinary lead excretion on these men to establish their actual magnitude of exposure while at work.

Very truly yours,

SM:vr

Willard Machle, M. D.

cc - Mr. R. C. Roberts
Mr. E. D. Cumming

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