

ETHYL GASOLINE CORPORATION

CHRYSLER BUILDING
405 LEXINGTON AVENUE

SAFETY COMMITTEE

O. B. LEWIS
CHAIRMAN

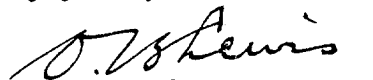
NEW YORK December 3, 1936

Dr. W. F. Machle
University of Cincinnati
Eden and Bethesda Avenues
Cincinnati, Ohio.

Dear Dr. Machle:

Sinclair Refining Company at Marcus Hook, Pennsylvania, have been making some analysis of lead in water bottoms and Ellis Jones has picked up a report from their chemist which is attached.

Very truly yours,



W:GCL
Enclosure

RF 0022629

C O P Y

Laboratory - Oct. 31st, 1936.

Mr. R. J. Self, Asst. Supt.
Office.

Dear Sir:

Mr. Riggs submitted to the laboratory samples of water and of sludge taken from HC Gasoline cars during cleaning. The history of these cars and the results of our analysis are shown below:

SDRX 8159 was last cleaned on June 9th, 1936, and has made two trips in HC Gasoline prior to this cleaning. Tests on samples taken from it are as follows:

	After $\frac{1}{2}$ Hr.	After 2 Hrs.	4 Hrs.	6 Hrs.	Middle of Car Sludge & Scale	End of Car Scale
Reaction	Acid	Acid	Acid	Acid	Acid	Acid
Water Sol. Pb++	None	None	None	None	None	-
Water Insol Pb++	None	Faintest Trace	None	None	0.003%	0.002%

SDRX 6115 was last cleaned on February 5, 1934, then made one trip in heating oil, one trip in kerosene and two trips in HC Gasoline prior to cleaning.

Reaction	Acid	Acid	Acid	Acid	-	Acid
Water Sol. Pb++	None	None	None	None	-	-
" Insol Pb.++	Faint Trace	Faint Trace	None	None	-	Trace

SDRX 6150 was last cleaned on June 17, 1936, and has since made two trips in concentrate and two trips in HC Gasoline

Reaction	Acid	Acid	Acid	Acid	-	Acid
Water Sol Pb++	None	None	None	None	-	-
" Insol Pb.++	None	None	None	None	-	None

The only sample in which we were able to detect a measurable amount of lead were two sludge and scale samples from SDRX 8159 in which we found small amounts of water insoluble lead compounds. We do not know whether or not this quantity is significant or whether the lead in the water in soluble form is dangerous. However, pending definite advice on this point it will probably be worth while to at least continue sampling gasoline cars as they are cleaned and in addition we should probably make an effort to clean an ethyl car and examine the same set of samples taken during its cleaning.

R. O. Bender

cc: Mr. W. Riggs

KE 0022630

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