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INTERIM REPORT

W. TOMC

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Pc. WT
G.F.P.

Some time back, 1-gallon quantities of eight (8) high-volume Glidden products were obtained with the goal of analyzing them for a number of trace heavy metals. This report summarizes the findings relative to the lead and cadmium contents of the 8 products.

A modified nitric acid - perchloric acid wet digestion method was used to achieve sample dissolution, followed by atomic absorption analysis for the two elements. The following results were obtained:

<u>SAMPLE</u>	<u>T.H.V.</u>	<u>LEAD (On Solids)</u>	<u>CADMIUM (On Solids)</u>
Y-3418	49.8%	15.5 P.P.M.	7.0 P.P.M.
Y-3454	49.9%	32.3 P.P.M.	3.8 P.P.M.
Y-3600	57.3%	0.21%	35.1 P.P.M.
Y-4600	65.6%	0.46%	2.4 P.P.M.
Y-917	49.3%	0.29%	3.0 P.P.M.
Y-3608	53.8%	0.12%	3.9 P.P.M.
Y-1828	66.0%	1.36% *	2.9 P.P.M.
Y-1801	84.1%	0.41%	0.7 P.P.M.

* This exceeds the amount that should be present, so the analysis was repeated, with similar results being obtained. The pigments (plus Nuact paste) were then removed by centrifugation and lead was determined on the clear vehicle. A value of 0.12% lead was obtained on the vehicle, which calculates to 0.15% of the paint solids. The balance (1.21%) was removed by the centrifuging process (Nuact paste?).

Analyses for the other trace heavy metals in these paints will proceed as time permits (to experimentally devise and evaluate the analytical techniques needed for each element).

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