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Materials Analysis Group, Inc.

Paint Quality Control Analysis

Client:	Rusty Hayden	**Project No:**	G322
Institution:	Ameri-Paint, LLC	**Date:**	May 25, 2004
PO Number:	Prepaid Check #1194		

SUMMARY: ***A paint sample was weighed, dried and analyzed by Fourier transform infrared (FTIR) spectroscopy. Within the limits of experimental variation, the FTIR spectra from this sample and the control sample were indistinguishable.***

DESCRIPTION OF SAMPLES:

Sample No.	**Client No.**
M32154-1	Control
G322-01	SP Rusty Hayden

PREPARATION AND ANALYSIS: After stirring the sample with a glass rod, a small amount of paint was placed on a pre-weighed glass slide and allowed to dry at 65^{o}C for a period exceeding 18 hours. The slide with dried paint was reweighed and then one or more portions of the dried sample were placed between two diamond flats for FTIR analysis. After smoothing and background correction, the spectra were compared to the control sample.

DISCUSSION OF RESULTS: Upon drying, the control sample lost about 43.5% by weight (solvent loss) and the “SP Rusty Hayden” sample lost about 49.8%. Figure 1 shows FTIR spectra from sample “SP Rusty Hayden” and from the control. The small differences seen between these spectra are no greater than those noted between spectra of different sub-samples of the control sample.

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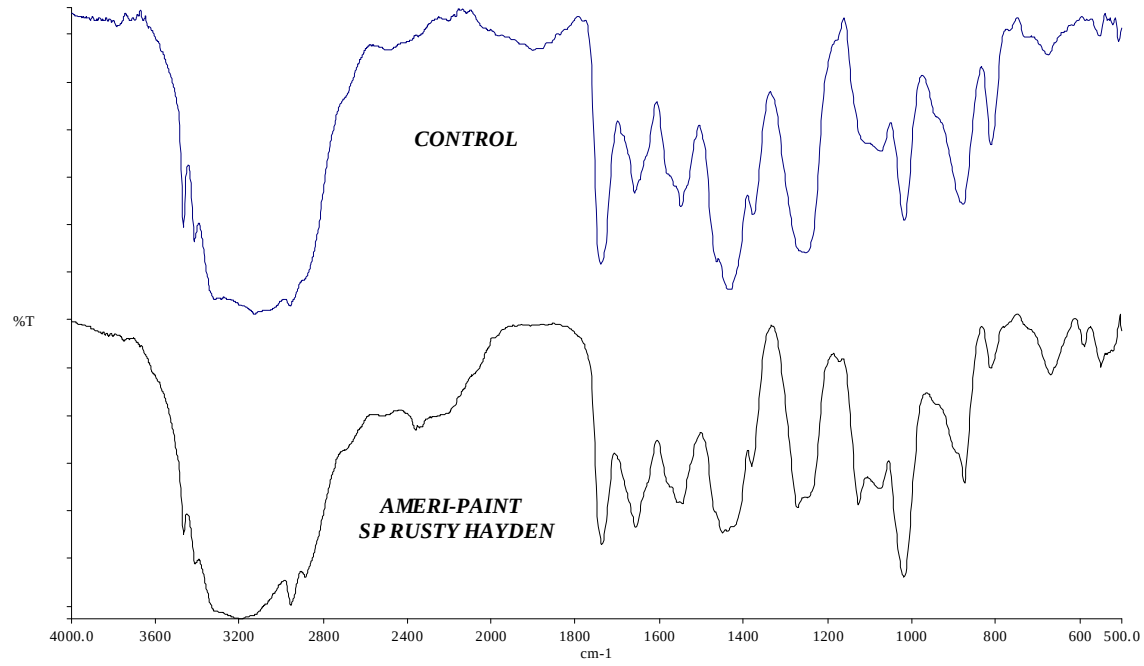

FIG. 1 – FTIR DATA (NOTE THAT THE PEAK AROUND 2350 cm^{-1} IS DUE TO ATMOSPHERIC ABSORPTION AND IS NOT A FUNCTION OF THE SAMPLE

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