

APPENDIX 1

ARTECH TESTING L.L.C.
FINAL REPORT



ARTECH TESTING, L.L.C.

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November 18, 1997

PRODUCT TESTING

Mr. Steve Bennett
Materials Laboratory Division
National Transportation Safety Board
490 L'Enfant Plaza East
Room 5140A
Washington, DC 20594

VEHICLE ANALYSIS

Subject: Analysis of Foam and Splatter Samples

Reference: P.O. No. NTSB 12-98-BP-1005
ARTECH M70092B

EDUCATION SUPPORT

Dear Mr. Bennett:

Two duct splatter samples were submitted to ARTECH Testing to compare them to a known polyurethane foam sample. The samples were analyzed using a Nicolet Protégé 460 Fourier Transform Infrared Spectrometer (FT-IR) equipped with a SpectraTech Attenuated Total Reflectance apparatus (ATR). The polyurethane foam has characteristic strong peaks at approximately 3300 and 1080 cm^{-1} . The S Duct Splatter Sample from Inside of Duct shows these same peaks and therefore is a polyurethane. The Splatter Sample STA 960 Intercoastal for AFT Piece Floor Panel does not show these peaks and is not a polyurethane. This sample appears to be an oxidized polyolefin or hydrocarbon oil.

CHEMICAL ANALYSIS

If ARTECH Testing can be of any further assistance, on this or other matters, please contact us at any time.

ENGINEERING CONSULTING

Sincerely,
ARTECH Testing, LLC

Karl Schweier
Chemist

MATERIALS RESEARCH

Enclosures

COMPUTER SERVICES

QUALITY CONTROL





