

FACTUAL REPORT - ATTACHMENT 2

NTSB Material Laboratory - Email Report WPR20LA280 (Unknown Residue)

WRECKAGE EXAMINATION

WPR20LA280

Residue Analysis

Tuesday, August 10, 2021 8:33 AM

McKenny Van

From: McAtee Nancy
Sent: Monday, August 9, 2021 11:01 AM
To: McKenny Van
Cc: Budinski Michael
Subject: Email report-WPR20LA280 (unknown residue)

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Categories: Active Investigation

Van,

A sample of a white powdery material was submitted to the Materials Laboratory for identification. The sample was examined using a Fourier Transform Infrared (FTIR) spectrometer with a diamond attenuated total reflectance (ATR) accessory in accordance to ASTM E1252-98 (American Society for Testing Materials E1252-98: *Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis*). The spectrometer was used to collect and process infrared wavelength absorbance spectra of the unknown material. The IR spectrum generated had no identifiable peaks indicating that the sample was likely an inorganic substance.

The sample was then examined using scanning electron microscopy (SEM) and semi-quantitative standardless energy dispersive x-ray spectroscopy (EDS) in accordance with ASTM E1508 (American Society for Testing Materials E1508 Standard Guide for Quantitative Analysis by Energy-Dispersive Spectroscopy, 2008). The EDS analysis found the presence of magnesium (Mg), and oxygen (O) likely indicating that the substance was magnesium oxide.

If you have any questions, please let me know.

Nancy B McAtee
Senior Chemist
RE-30