

From: [McAtee Nancy](#)
To: [McKenny Van](#)
Cc: [Budinski Michael](#)
Subject: WPR15TA071 Email report-fuel testing review
Date: Wednesday, August 12, 2015 2:03:19 PM
Attachments: [WPR15TA071 fuel testing report.pdf](#)

Van,

A sample of fuel from the this accident aircraft was sent to an independent, third-party laboratory for analysis. The test report was sent to the Material Laboratory for review. The sample was examined using ASTM D2887 (*Standard Test Method for Boiling Range Distribution of Petroleum Fractions by Gas Chromatography*) to determine what type of fuel was present in the sample. The distillation results for this sample were consistent with jet fuel (Jet-A).

In addition, visible particulates were present in the fuel sample. These particulate were tested using ASTM D5185 (*Standard Test Method for Multi-element Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)*). The results are listed below.

- Sodium (Na) 82.8 mg/kg
- Zinc (Zn) 4.9 mg/kg
- Iron (Fe) 5.4 mg/kg
- Magnesium (Mg) 6.7 mg/kg

The elements found were commonly occurring elements found in many things including soil.

A copy of the test report is attached to this email.

If you have any other question, please let me know.

Nancy B. McAtee
Chemist
RE-30

NATIONAL TRANSPORTATION SAFETY BOARD
490 L'ENFANT PLAZA EAST, SW
20594, WASHINGTON
United States
998707001

Attention of : Mrs. N. Mcatee
Your reference : Fuel testing for two samples

Analysis Report

Report number : 13090/00006625.0/L/15 Date of sampling : 05-15-2015
Main Object : Submitted samples Place of sampling :
Report Date : 05-27-2015 Date received : 05-19-2015
Date of issue : 05-26-2015 Date completed : 05-20-2015
Sample object : Submitted samples Sample number : 2467149
Sample type : Submitted
Sample submitted as : Jet Fuel (WPR14TA071)
Marked : Container Submitted samples for analysis only

NAME	METHOD	UNIT	RESULT
Simulated Distillation	ASTM D 2887		
IBP (0.5%)		°F	257
5% recovered		°F	312
10% recovered		°F	329
15% recovered		°F	341
20% recovered		°F	359
25% recovered		°F	373
30% recovered		°F	386
35% recovered		°F	395
40% recovered		°F	403
45% recovered		°F	412
50% recovered		°F	418
55% recovered		°F	430
60% recovered		°F	440
65% recovered		°F	449
70% recovered		°F	464
75% recovered		°F	477
80% recovered		°F	490
85% recovered		°F	508
90% recovered		°F	528
95% recovered		°F	562
FBP (99.5%)		°F	850
ICP	ICP		

Uncertainties apply in the evaluation of the test results. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or uncertainty, we refer to the interpretation of test results as defined in ASTM D3244, IP 367 or ISO 4259.

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Signed by: Francine Hanby - Laboratory Manager II
Issued by: Saybolt LP
Place and date of issue: Carson - 05-26-2015

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