

From: [McAtee Nancy](#)
To: [Boggs Daniel](#)
Cc: [Budinski Michael](#)
Subject: Email report-ERA21FA263 (Metallic debris from waste gate)
Date: Tuesday, August 10, 2021 3:14:37 PM

Dan,

A small section of metal that was found in the waste gate of the accident aircraft was submitted to the Materials Laboratory for examination.

The metallic section was examined using an x-ray fluorescence (XRF) alloy analyzer. The testing results were as follows:

~65.6% Iron (Fe)
~17.1 Chromium (Cr)
~10.0 Nickel (Ni)
~4.3% Silicon (Si)
~1.4% Manganese (Mn)
~0.6% Titanium (Ti)

These elements are consistent with stainless steel.

If you have any question, please let me know.

Nancy B McAtee
RE-30
Chemist