

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Research and Engineering
Materials Laboratory Division
Washington, D.C. 20594



April 8, 2019

MATERIALS LABORATORY FACTUAL REPORT

Report No. 19-015

A. ACCIDENT INFORMATION

Place : Thomaston, GA
Date : 7/4/2018
Vehicle : N8314W
NTSB No. : ERA18LA226
Investigator : Heidi Kemner

B. COMPONENTS EXAMINED

Nose landing gear wheel attach bolt (figure 1)

C. DETAILS OF THE EXAMINATION

The nose landing gear wheel attach bolt exhibited a bend at approximately the midpoint of its length. The attach bolt consisted of a 3/8-inch rod threaded on both ends. One end had a nut attached and the other end exhibited bare threads. Examination of the threads (figures 2, 3) revealed that they had been deformed in a manner consistent with the nut having been pulled off the threads.

Joseph Panagiotou
Fire Protection Engineer



Figure 1: Nose landing gear wheel attach bolt as received.



Figure 2: Damaged threads at end of wheel attach bolt.



Figure 3: Damaged threads at end of wheel attach bolt (alternate view).