

NATIONAL TRANSPORTATION SAFETY BOARD

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



January 26, 2012

MATERIALS LABORATORY FACTUAL REPORT

Report No. 12-005

A. ACCIDENT INFORMATION

Place : Okeechobee, Florida
Date : September 19, 2011
Vehicle : Heinlein GH 125
NTSB No. : ERA11LA519
Investigator : Heidi Moats

B. COMPONENTS EXAMINED

Portion of landing gear bolt

C. DETAILS OF THE EXAMINATION

An overall photograph of the landing gear bolt piece is shown in Figure 1. The fracture surface of the bolt is shown in Figure 2. As-received, a portion of the fracture surface was damaged due to a saw cut. Based on the deformation of the bolt shank and the fracture surface features, the bolt fractured in overstress due to concomitant shear and bending stresses.

Michael Budinski
Chief, Materials Laboratory Division

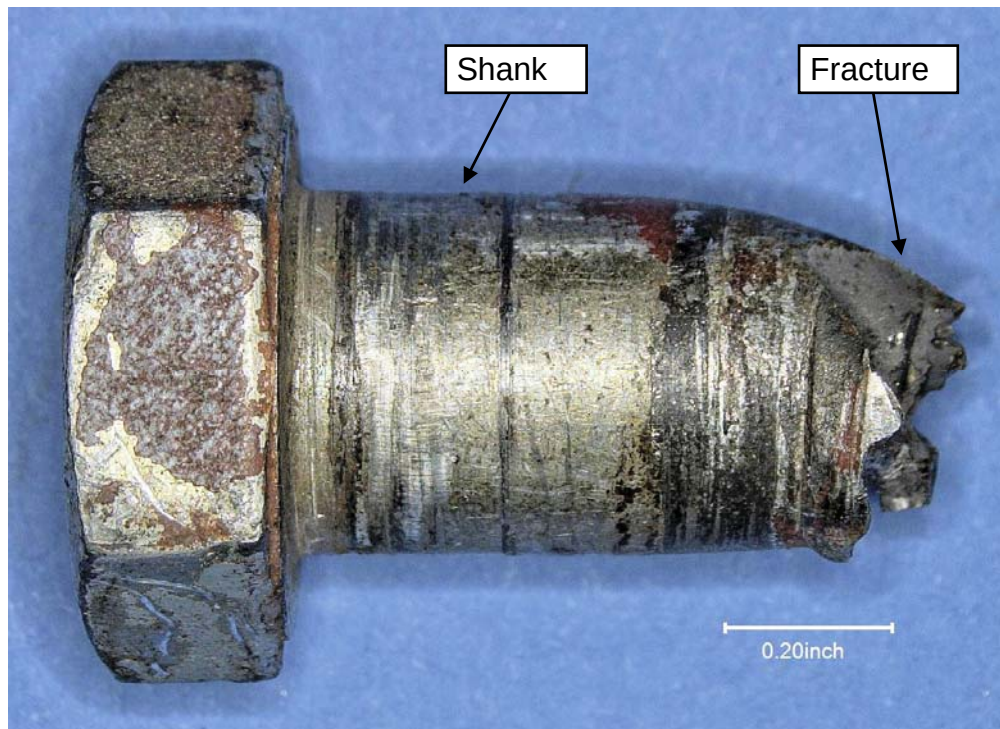


Figure 1 Image showing the as-received bolt piece.

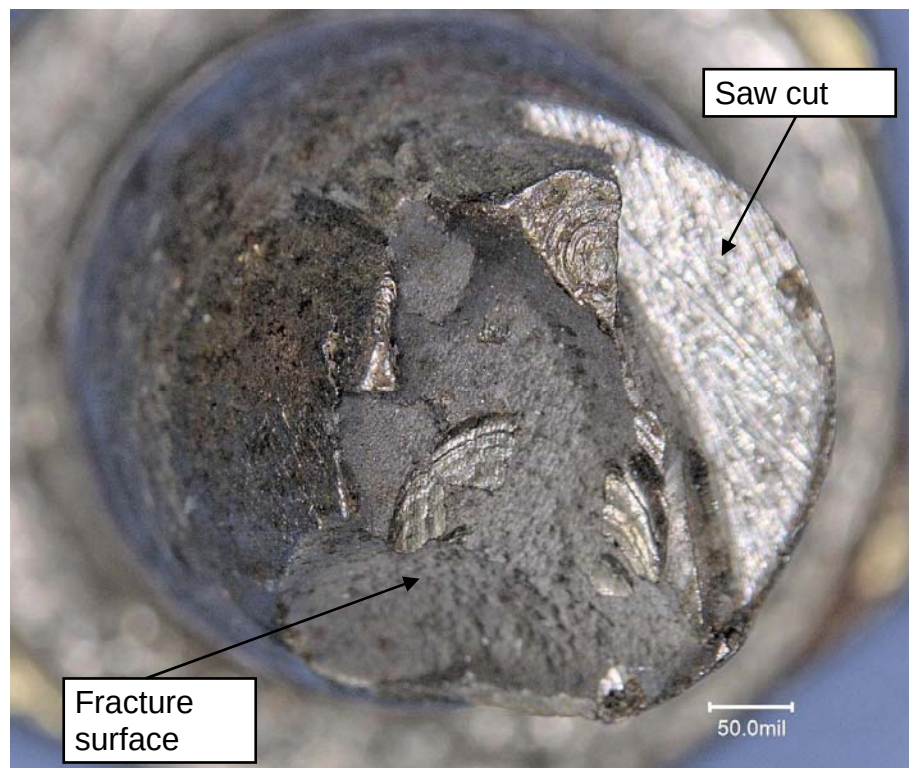


Figure 2 Image showing the fracture surface of the bolt piece.