

# **NATIONAL TRANSPORTATION SAFETY BOARD**

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

10/12/2018



## **MATERIALS LABORATORY FACTUAL REPORT**

Report No. 18-080

### **A. ACCIDENT INFORMATION**

Place : Pedro Bay, AK  
Date : 8/18/2018  
Vehicle : Cessna 206  
NTSB No. : ANC18LA067  
Investigator : Brice Banning

### **B. COMPONENTS EXAMINED**

Portions of the left and right lower main landing gear legs (figure 1)

### **C. DETAILS OF THE EXAMINATION**

The fracture surface on the portion of the left main landing gear (figure 2) exhibited chevron marks leading to a small thumbnail region. The thumbnail region included two distinct ratchet marks. These fracture features are consistent with a fatigue crack.

The fracture surface on the portion of the right main landing gear (figure 3) also exhibited chevron marks leading to a small thumbnail region consistent with a fatigue crack.

Joseph Panagiotou  
Fire Protection Engineer

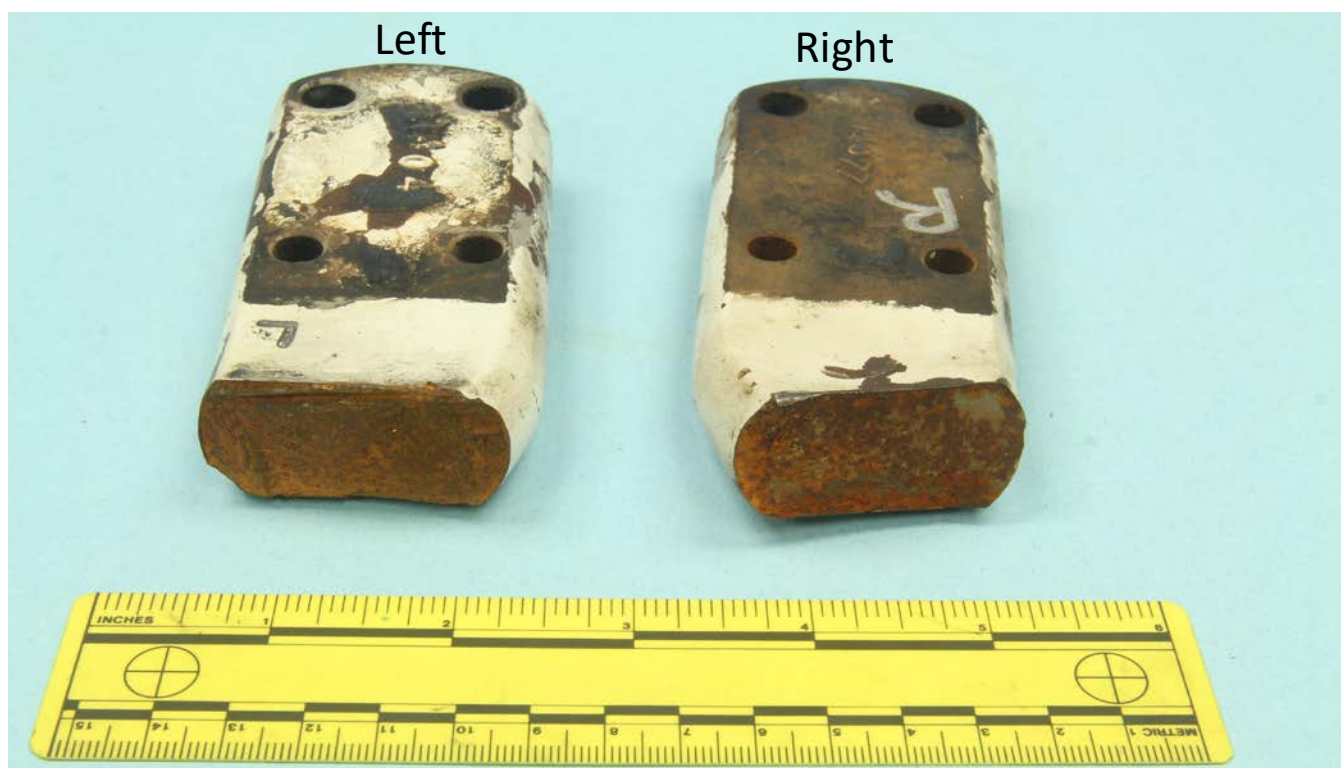


Figure 1: As received, left and right portions of the main landing gear.

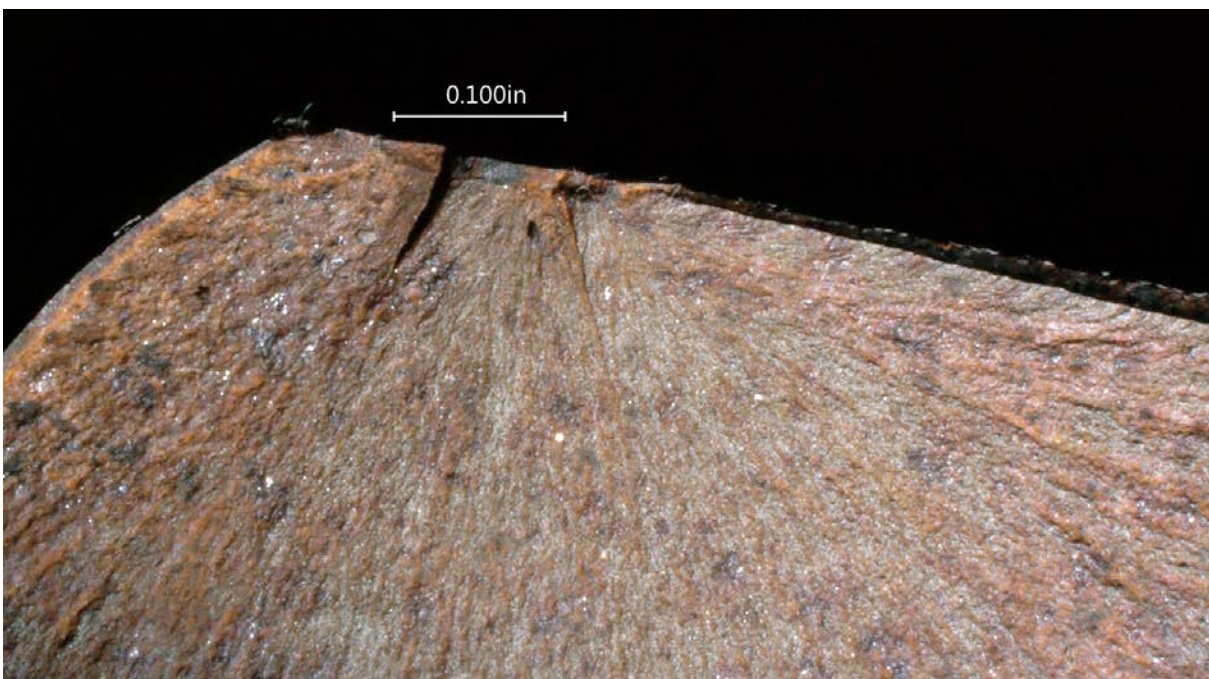


Figure 2: Portion of left main landing gear exhibiting fracture features consistent with a fatigue crack.

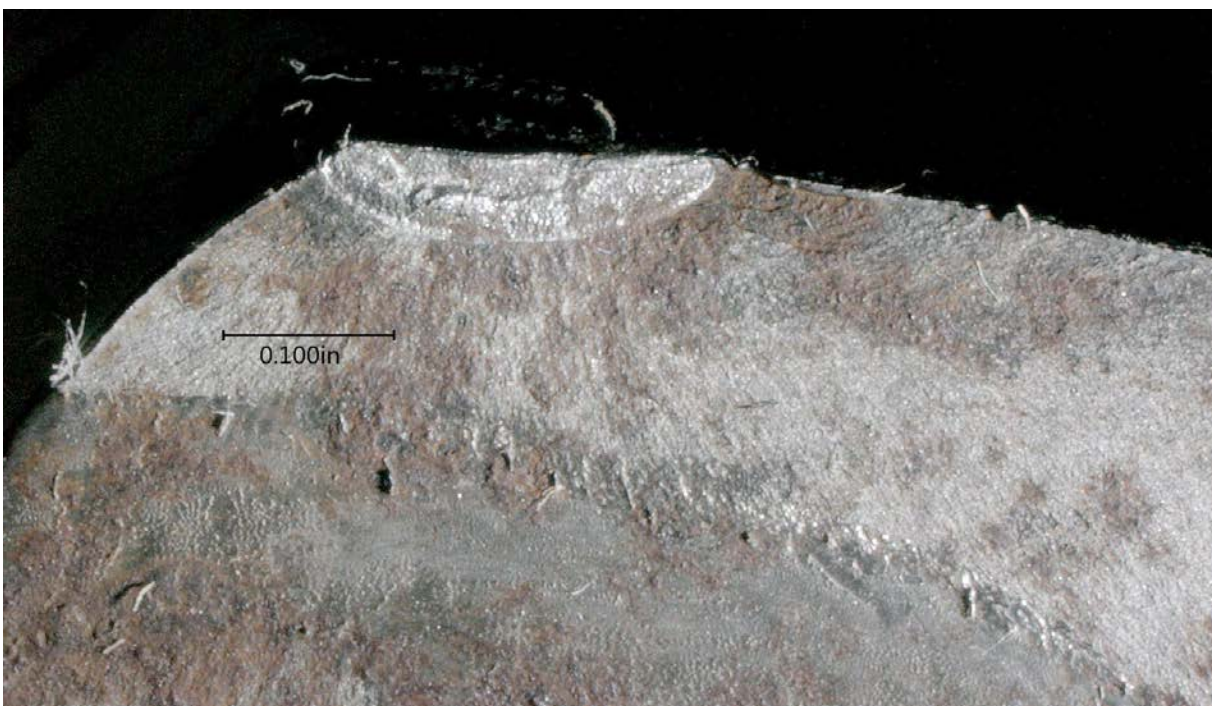


Figure 3: Portion of right main landing gear exhibiting fracture features consistent with a fatigue crack.