

# National Transportation Safety Board

Office of Research and Engineering

Washington, DC 20594



ANC22FA047

## **MATERIALS LABORATORY**

Factual Report 22-093

**November 30, 2022**

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## **A. ACCIDENT INFORMATION**

Location: Clear, Alaska  
Date: June 26, 2022  
Vehicle: Bell UH-1B, N9970F  
Investigator: Van McKenny, AS-40

## **B. COMPONENTS EXAMINED**

Lift link assembly with attached fuselage beam structure piece.

## **C. EXAMINATION PARTICIPANTS**

Specialist Matthew R. Fox, Ph.D.  
NTSB  
Washington, DC

## **D. DETAILS OF THE EXAMINATION**

An overall view of the submitted lift link assembly and attached fuselage beam structure piece is shown in figure 1. The beam structure was fractured near the edges of the link attachment clevis fitting. Views of the fracture surfaces are shown in figures 1 and 2. Fracture features generally showed deformation and rough matte-gray features consistent with ductile overstress fracture in wrought aluminum alloys. Portions of the fracture had a more reflective appearance, particularly near the edges along the lower fracture faces and in various areas of the vertical faces consistent with smearing on a shear plane or post-fracture contact damage. No evidence of preexisting damage such as fatigue cracking was observed.

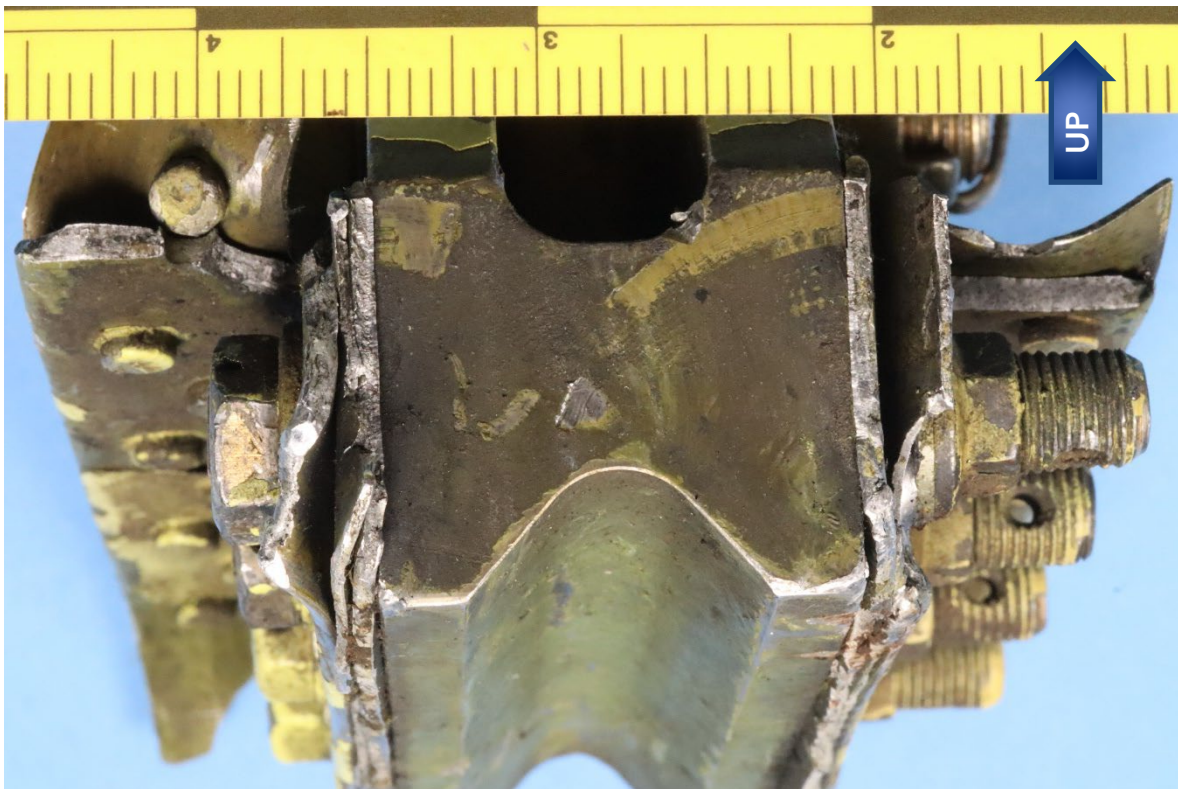
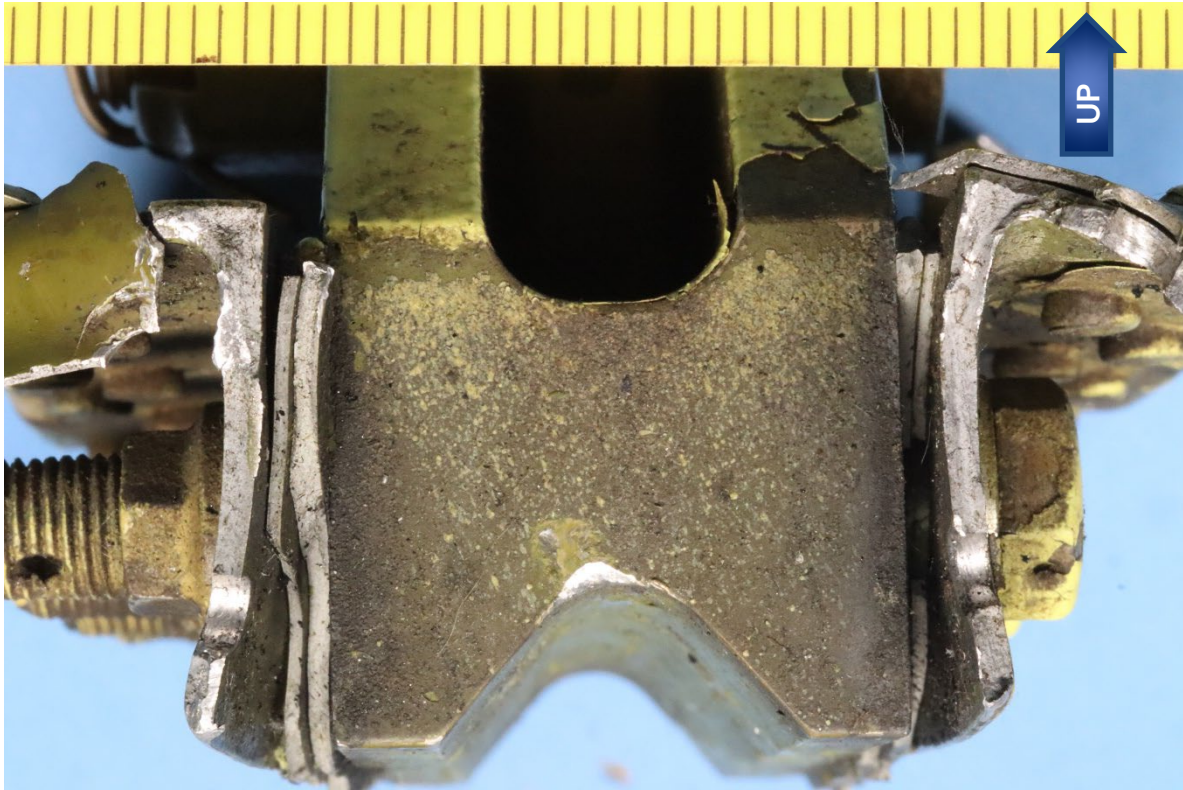
Submitted by:

Matthew R. Fox, Ph.D.  
Chief Technical Advisor - Materials



**Figure 1.** Overall view of the submitted lift link assembly with attached fuselage beam structure piece (left) and view of fractures on the lower side of the submitted beam structure piece (below).





**Figure 2.** Vertical portions of the beam structure fracture surfaces at each end of the submitted piece.