

National Transportation Safety Board

Office of Research and Engineering

Washington, DC 20594



ERA22LA247

MATERIALS LABORATORY

Factual Report 22-076

October 27, 2022

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A. ACCIDENT INFORMATION

Location: Jacksonville, FL
Date: 5/29/2022
Vehicle: Cessna 150F, N8919S
Investigator: Adam Gerhardt

B. COMPONENTS EXAMINED

Left and right steering connecting rod assembly for C150 (Figure 1).

C. EXAMINATION PARTICIPANTS

Specialist Joseph Panagiotou
National Transportation Safety Board
Washington, DC

D. DETAILS OF THE EXAMINATION

The steering connecting rod assembly exhibited a fractured rod end fitting (Figure 2). Examination of the fractured rod end fitting revealed that the threaded shank portion of the rod end fitting above the stop nut exhibited plastic deformation. Examination of the fracture surfaces of the rod end fitting revealed slant fractures consistent with overstress (Figure 3). The plastic deformation along with the slant fracture features are consistent with bending overstress.

Submitted by:

Joseph Panagiotou
Engineer



Figure 1. Left and right steering connecting rod assembly as received.



Figure 2. Two portions of connecting rod end fitting exhibiting plastic deformation above the stop nut.



Figure 3. Slant fractures on fracture faces of connecting rod end fitting.