

NATIONAL TRANSPORTATION SAFETY BOARD

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



December 27, 2019

MATERIALS LABORATORY FACTUAL REPORT

Report No. 19-087

A. ACCIDENT INFORMATION

Place : Sebring, FL
Date : 10/30/2018
Vehicle : Gyrocopter
NTSB No. : ERA19FA034
Investigator : Brian Rayner

B. COMPONENTS EXAMINED

Pitch horn clevis and rod end (figure 1)

C. DETAILS OF THE EXAMINATION

A pitch horn clevis and its associated rod end were submitted for examination. Both components exhibited corroded surfaces throughout (Figure 1). The clevis exhibited one of its ears deformed in an inward direction (Figure 2). The holes for the clevis pin were corroded but did not exhibit any deformation or signs that the rod end had been pulled from the clevis (Figure 3). The damage is consistent with the rod end not having been attached to the clevis at the time of the accident.

Joseph Panagiotou
Fire Protection Engineer



Figure 1: Pitch horn clevis and rod end as received.



Figure 2: Pitch horn clevis with ear bent inwards.



Figure 3: Clevis pin hole corroded but not deformed.