

Date: 11-16-2020

We received a Hydraulic pump P/N 20240 1CF {Cessna 210 model} S/N 1087 from Eric Gutierrez {NTSB} Put in quarantine.

Called Eric and we decided to go forward with the inspection of unit 12-15-2020

Videos and pictures of opening box. A visual inspection showed that the seal was extruding out of the pump around the drive shaft. Took pump to work bench to try and run pump to see if it would hold pressure. As we primed pump oil was running out of the bottom of pump where the seal was torn and extruding. Could not run pump at this point. Decided to do an internal visual tear down inspection of gears, gear pockets, diaphragm and seal. Gears and gear pockets and looked ok. Imaging on diaphragm would appear to indicate inactivity of pump. Removed the snap ring and oil seal from housing. Load spring and seal lip was misshaped hard and brittle and torn causing oil to run out and not hold pressure. Cause of pump failure was seal failure due to deterioration and torn seal.

Hydraulic Technician

Terry J. Rice



Chief Inspector

Danny Sitzman

