



RECORD OF EXAMINATION

Mitchell Gallo
Aviation Accident Investigator
Central Region

Person(s): Mitchell Gallo, NTSB Investigator-in-Charge

NTSB Accident Number: CEN22LA117

Date: July 13, 2022

Narrative:

Post-accident examination of the aircraft was performed at Beegles Recovery & Storage, Greeley, Colorado. The number 3 cylinder, opposite to the number 4 cylinder, was attached and secured to its crankpin and exhibited debris related impact damage to estimated 45° of the piston skirt bottom and nearest crank cheek.

The number 4 cylinder connecting rod was detached from its crankpin at the connecting rod end. The end of the connecting rod was deformed and its connecting rod bolts and connecting rod cap were not intact. The number 4 cylinder crankpin exhibited partial gouging along its circumference and radial impact related deformation.

The number 5 piston and its connecting rod were intact and secure. The crankpin end of the number 5 piston connecting rod was not connected to its crankpin, and the connecting rod end was hammered into a rounded shape. The connecting rod cap was not intact. The number 5 cylinder crankpin did not exhibit scoring and did not possess gouging similar to that of the number 4 cylinder crankpin.

The deformed end of a connecting rod with both connecting rod bolts in place was recovered in the engine.

The engine oil sump contained oil and metallic debris, which was consistent with internal engine component failure.

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