



Ryan Enders
Aviation Accident Investigator
Eastern Region

Date: March 06, 2025

Subject: ERA24FA397 Engine Disassembly and Inspection

Contact: Inspector Ken Lancaster, FAA/FSDO

Inspector Lancaster provided oversight of the engine disassembly from N1218F. He provided the following pages for his report. The engine was disassembled at Continental Aerospace Technologies on March 06, 2026.

ERA24FA397

Aircraft Registration: N1281F

Engine Model: IO-550-N

Engine Serial No. 1045512

Engine had sustained significant fire, heat and impact damage.

Engine would not rotate until all accessories and cylinders were removed.

Engine crankshaft and camshaft rotated freely after removal of all accessories and cylinders.

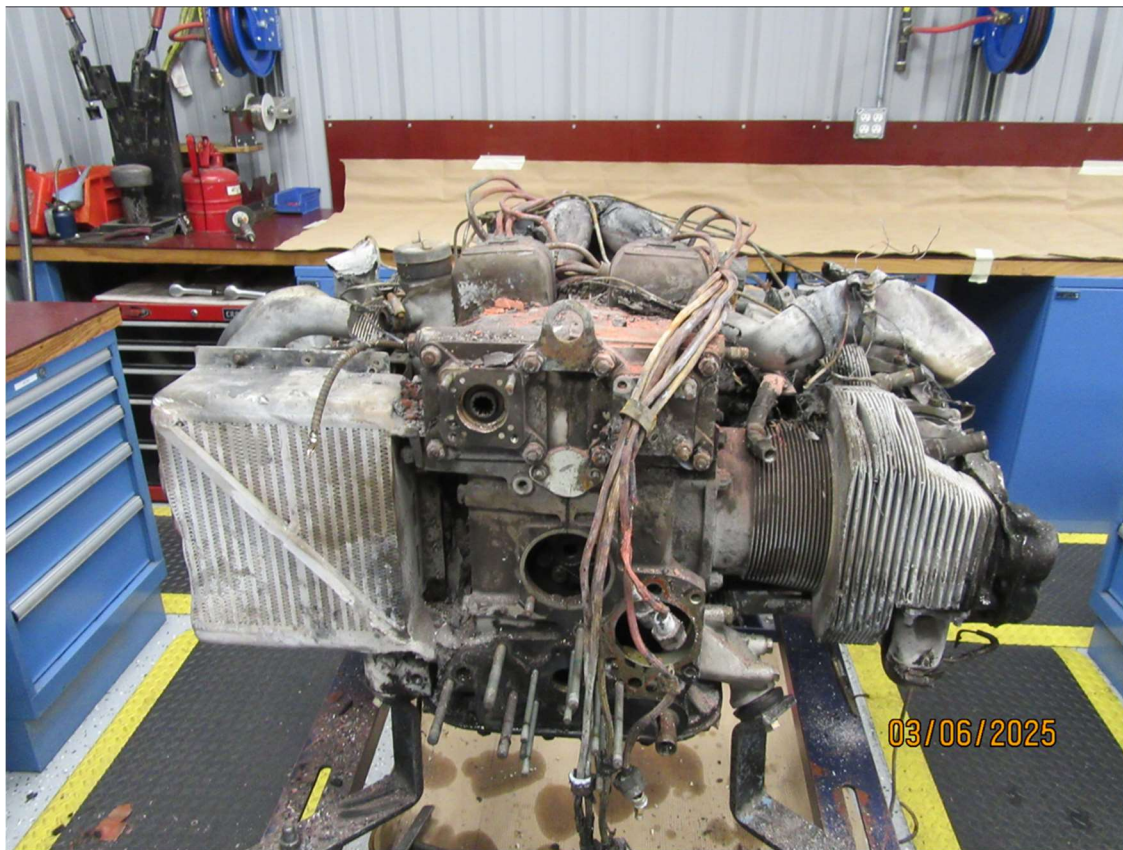
There was significant rust in Cylinders #2, #4 and #6.

Fuel pump drive coupling was sheared at the designed shear point.

See attached photos.

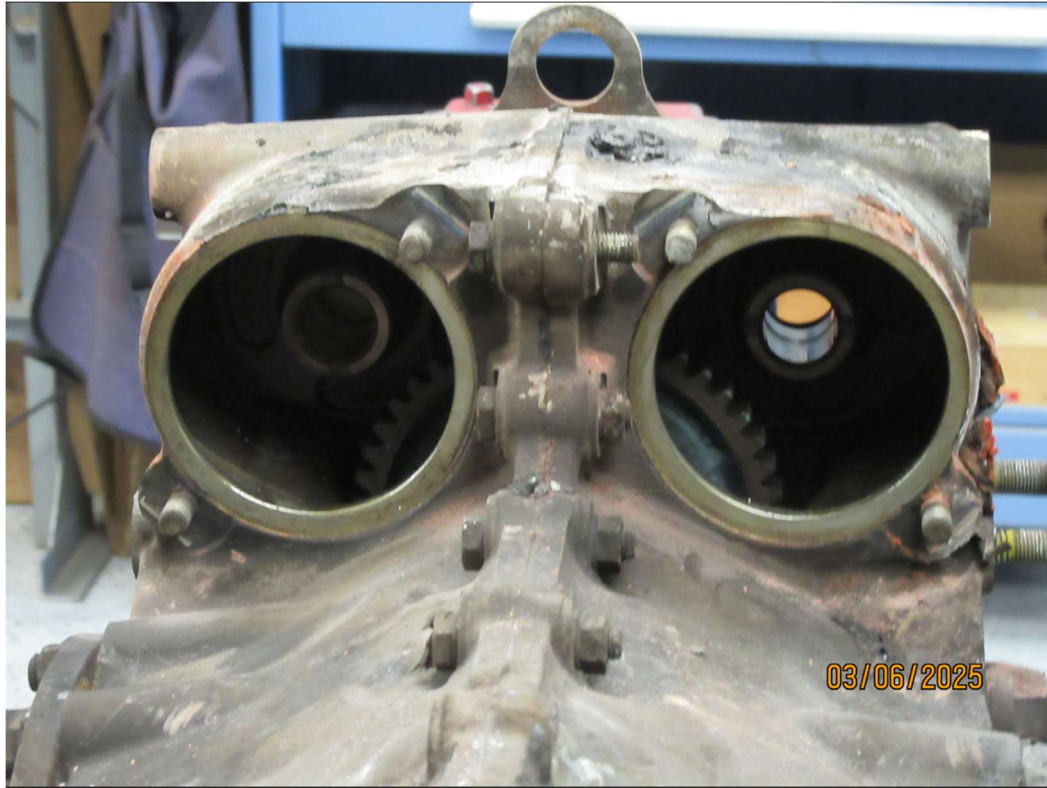


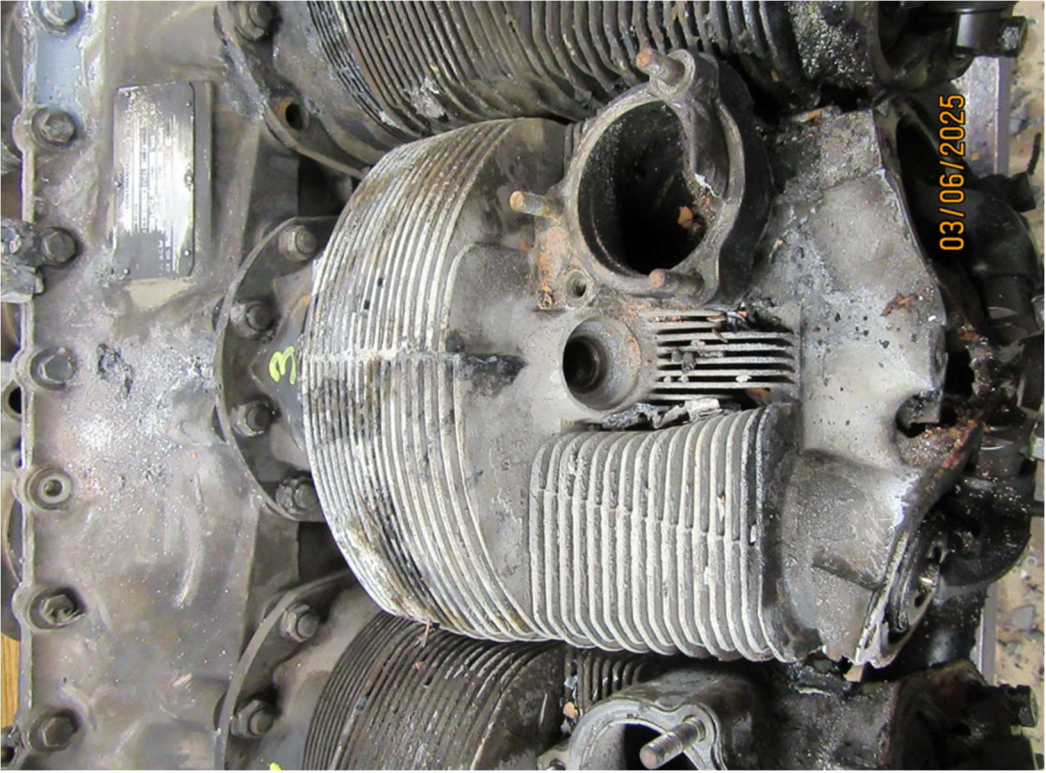
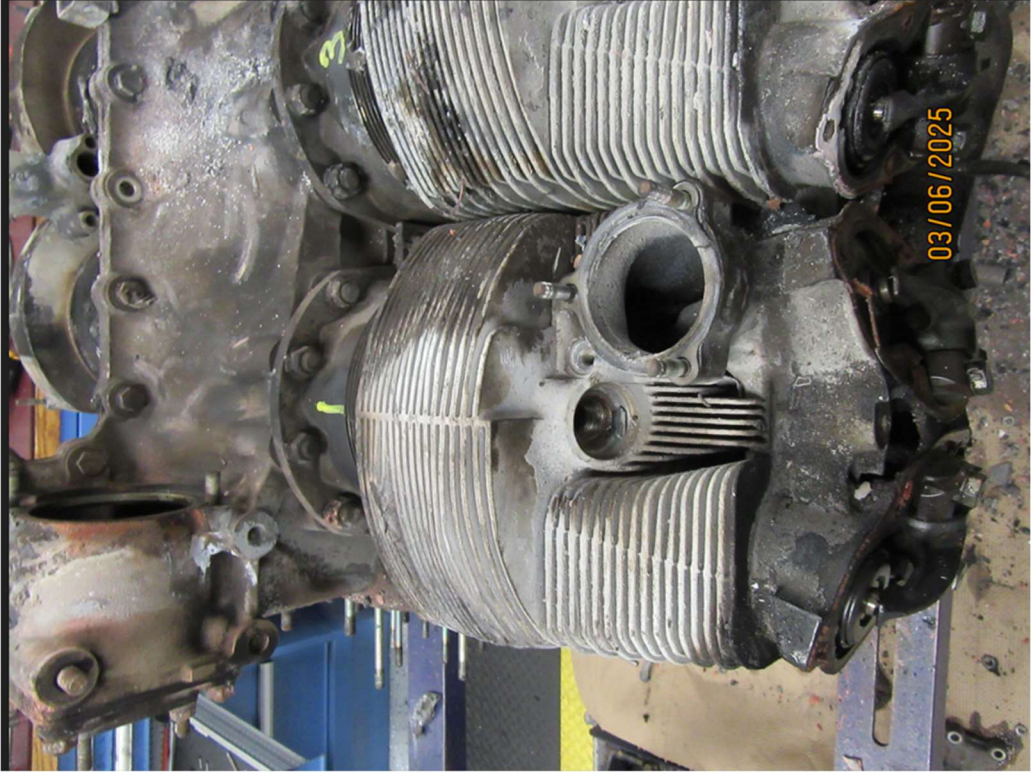


















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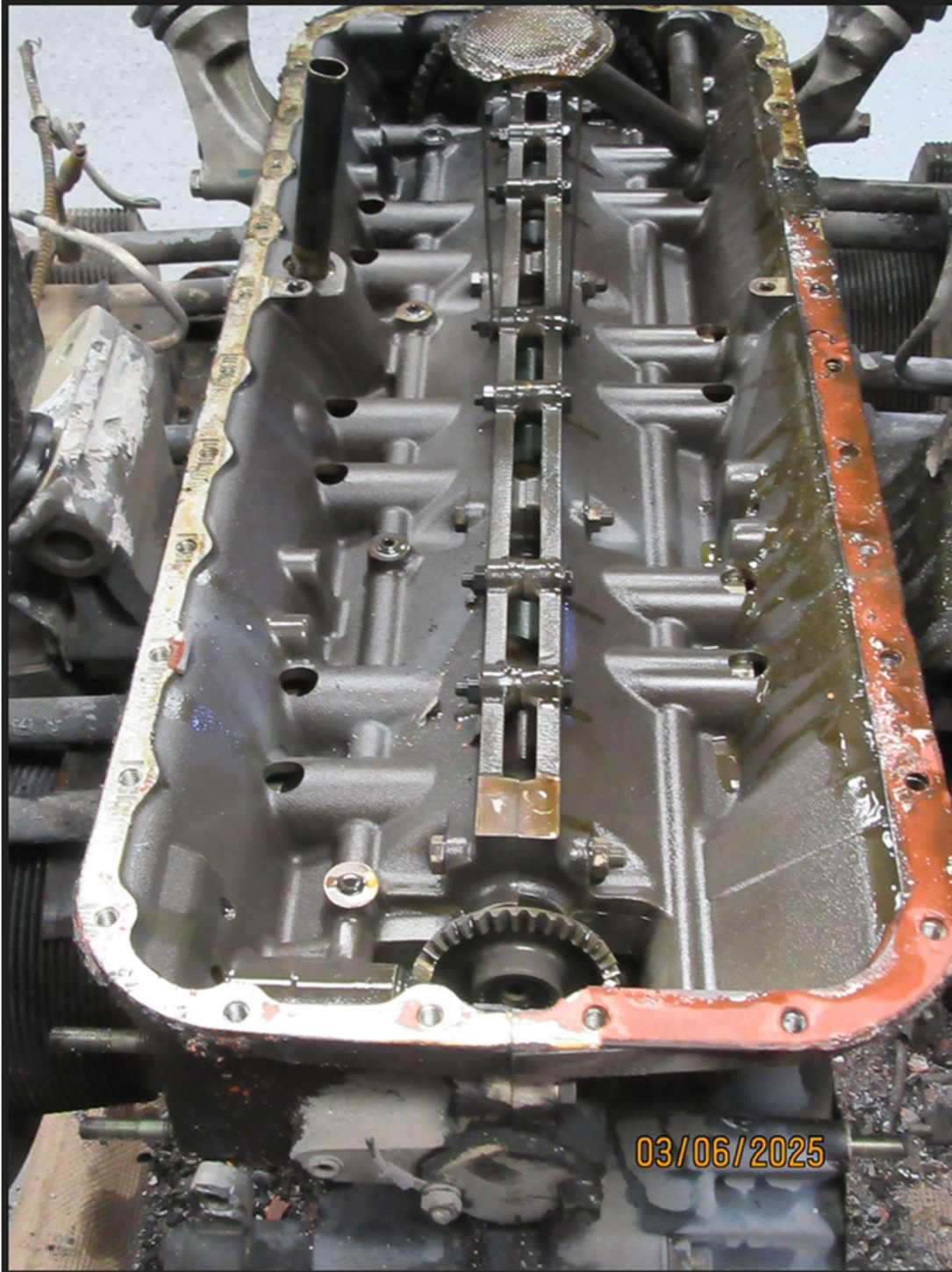
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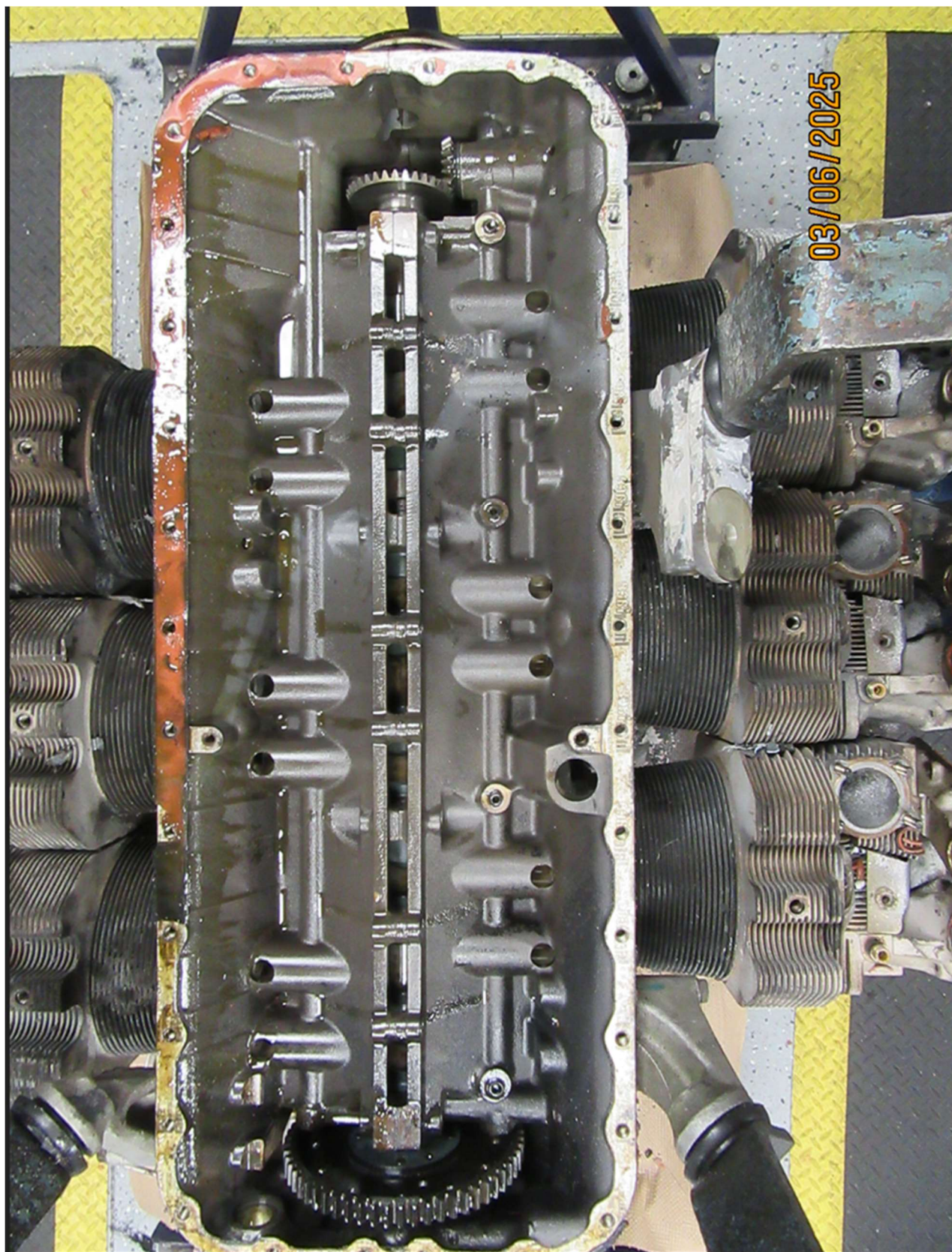
1045512

HOLDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 8,931,287; 9,480,635; 9,500,000

03/06/2025





















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