



SUBJ: Engine Fuel Pumps

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) alerts you, owners, operators, and certificated repair facilities of airplanes equipped with **Hartzell Engine Technologies LLC (HET) (formerly Kelly Aerospace) fuel pumps, part number (P/N) 200F-5xxx**, of possible fuel leaks. The airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

We have received reports of HET fuel pumps, P/N 200F, that have developed minor leaks. These leaks could become larger and more prevalent with time. These fuel pumps are only installed on Lycoming Engines. Since 2002, corrective actions were taken to mitigate leaking HET fuel pumps. We are issuing this SAIB because we received an additional report of an HET fuel pump, P/N 200F, that developed a leak similar to the leak described in Kelly Aerospace Service Bulletin (SB) Number (No.) 113. For related service information, refer to the following:

- Kelly Aerospace Power Systems Service Information Letter Bulletin No. A-109, dated September 17, 2002. Removes fuel pump, P/N 200F, by serial number (S/N).
- Kelly Aerospace Power Systems Mandatory Service Bulletin (MSB) No. 113, dated August 5, 2004. Removes fuel pump, P/N 200F, by S/N.
- FAA Advisory Circular 43-16A, Alert No. 341, page 11, dated December, 2006. Describes leaking fuel pump defect, P/N 200F-5004, and advises that a Service Difficulty Reporting System database search revealed 7 entries related to this P/N.
- Lycoming Engines SB No. 590, dated June 25, 2009. Advises use of aircraft boost pump with Kelly Aerospace 200F fuel pumps.
- Lycoming Engines Service Instruction (SI) No. 1420A, dated February 25, 2011. Provided instruction for drive spline lubrication.
- Lycoming Engines SI No. 1484C, dated March 29, 2011. Provides installation torque values.
- Kelly Aerospace Energy Systems SB No. 034, dated July 7, 2009. Removes fuel pumps, P/N 200F, manufactured between January 1, 2008 and June 25, 2009 with less than 10 hours total time in service.
- Lycoming Engines MSB No. 590A, dated November 13, 2009. Supersedes Lycoming Engines SB No. 590, dated June 25, 2009. Removes fuel pumps, P/N 200F, with specific S/Ns manufactured between January 1, 2008 and June 25, 2009 and provides additional information.
- Piper Vendor Service Publication – 202, dated December 14, 2009. Reflects content of Lycoming Engines SB No. 590A.

Recommendations

We recommend a visual inspection of fuel pump, P/N 200F, and fuel pump drain ports every 50 hours of operation to coincide with every routine engine oil change. If any leakage is detected, we recommend that you use the service information noted above, or the appropriate aircraft manufacturer's guidance, to remove the fuel pump.

We also request that you report the presence of fuel leakage to Christopher Richards, Aerospace Engineer, Chicago Aircraft Certification Office, FAA; phone: 847-294-7156; fax: 847-294-7834; email: christopher.j.richards@faa.gov. Include P/N, S/N, date of removal, and cause for removal when making your report. Under the provisions of the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.), the Office of Management and Budget (OMB) has approved the information collection in this SAIB. The OMB control number is 2120-0731.

For Further Information Contact

Norm Perenson, Aerospace Engineer, New York Aircraft Certification Office, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 516-228-7337; fax: 516-794-5531; email: norman.perenson@faa.gov.

For Related Service Information Contact

Rick Quave, Vice President of Engineering, Hartzell Engine Technologies LLC; phone: 334-386-3636; email: rquave@hartzellprop.com.