AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Thielert Piston Engines

AD/THIELERT/12 Rail Pressure Control Valve 2/2009

Applicability: Thielert Aircraft Engines GmbH (TAE) 125-02-99 (commercial designation Centurion 2.0) engines.

Note 1: These engines are known to be installed on, but not limited to, Cessna 172 and (Reims-built) F172 series (EASA STC Nr. EASA.A.S.01527), Piper PA-28 series (EASA STC Nr. EASA.A.S.01632), APEX (Robin) DR 400 series (EASA STC Nr. EASA.A.S.01380) and Diamond DA 40 D, DA 42 and DA 42 M aircraft.

Requirement:

1. Replace the rail pressure control valve P/N 05-3940-K001501 and modify the VRail Plug in accordance with TAE SB TM 125-1008 P1 R1.

2. Amend the approved engine maintenance schedule to incorporate the instructions of Chapter 5 “Airworthiness Limitations” of OM-02-02 Issue 1 Revision 2.

3. Thereafter, accomplish the tasks within the thresholds and intervals (as) defined and instructed in Chapter 5 “Airworthiness Limitations” of OM-02-02 Issue 1 Revision 2.

Engines with Serial Numbers (S/N) as identified in TAE SB TM 125-1008 P1 R1 have already incorporated these modifications and therefore do not need to comply with Requirement 1 of this AD.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

Note 2: EASA AD 2008-0215 dated 5 December 2008 refers.

Compliance: For Requirement 1 - Within the next 110 flight hours after the effective date of this AD, unless previously accomplished.

For Requirement 2 - Within the next 3 months after the effective date of this AD, unless previously accomplished.

For Requirement 3 - After the completion of Requirements 1 and 2 of this AD.

This Airworthiness Directive becomes effective on 12 February 2009.

Thielert Piston Engines

AD/THIELERT/12 (continued)

Background: As a consequence of occurrences and service experience, Thielert Aircraft Engines GmbH has introduced a new rail pressure control valve Part Number (P/N) 05-7320-E000702 and has amended the Airworthiness Limitation Section (ALS) of the Operation & Maintenance Manual OM-02-02 to include a replacement of the rail pressure control valve. Failure of this part could result in in-flight shut down(s) of the engine(s).

This AD requires replacement of the rail pressure control valve, modification of the VRail Plug and the implementation of the instructions, limitations, inspections and corrective measures, as specified in TAE SB TM 125-1008 P1 and in issue 1 revision 2 of the chapter 5 of the OM-02-02.

James Coyne
Delegate of the Civil Aviation Safety Authority

22 December 2008