


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE
	<p>PAD No.: 10-038</p> <p>Date: 23 April 2010</p> <p>Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>	
<p>Type Approval Holder's Name :</p> <p>Thielert Aircraft Engines GmbH</p>	<p>Type/Model designation(s) :</p> <p>TAE 125 series engines</p>
<p>TCDS Number : EASA E.055</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : LBA AD D-2005-145 (EASA approval N° 2 005-2921 dated 01 April 2005)</p>	
ATA 72	Engine - FADEC Software - Modification
Manufacturer(s):	Thielert Aircraft Engines (TAE) GmbH.
Applicability:	<p>TAE125-01, TAE 125-02-99, TAE 125-02-114, all serial numbers</p> <p>These engines are known to be installed, but not limited to, Diamond DA 40, DA 42, DA 42M, Apex DR-400, Cessna C172 and Piper PA28.</p>
Reason:	<p>Service experience has shown that a case of FADEC channel B manifold air pressure (MAP) sensor hose permeability is not always recognised as fault by the FADEC. The MAP value measured by the sensor may be lower than the actual pressure value in the engine manifold, and limits the amount of fuel injected into the combustion chamber and thus the available power of the engine. A change in FADEC software version 2.91 will change the logic in failure detection of channel B.</p> <p>In addition, previous software versions allow – under certain conditions and on DA42 aircraft only – the initiation of a FADEC self test during flight that causes an engine in-flight shutdown.</p> <p>These conditions, if not corrected, could lead to in-flight cases of engine power loss or ultimately shutdown.</p> <p>To address and correct this situation, TAE has developed a new software version 2.91.</p> <p>This AD requires the installation of software version 2.91.</p>
Effective Date:	[TBD: 14 days after final AD issue date]

<p>Required action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <p>Within 110 flight hours after the effective date of this AD, or during next maintenance, which ever occurs first, but not later than 6 months after the effective date of this AD, install software version 2.91:</p> <ul style="list-style-type: none"> - (for TAE 125-01 engines) in accordance with the instructions given in Annex 13 »FADEC Software Update« of the Operation & Maintenance Manual OM-02-01 Issue 3 Revision 13; - (for TAE 125-02-99 engines and TAE 125-02-114 engines) in accordance with Annex 17 »FADEC Software Update« of the Operation & Maintenance Manual OM-02-02 Issue 1 Revision 10.
<p>Ref. Publication:</p>	<p>Thielert Aircraft Engines SB TM TAE 000-0007 Rev 9 Engine Variants and Software Versions dated 05 March 2010.</p> <p>Operation & Maintenance Manual OM-02-01 Issue 3 Revision 13 dated 30 March 2010.</p> <p>Operation & Maintenance Manual OM-02-02 Issue 1 Revision 10 dated 07 April 2010.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks :</p>	<ol style="list-style-type: none"> 1. This Proposed AD will be closed for consultation on 21 May 2010. 2. Enquiries regarding this PAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact: Thielert Aircraft Engines GmbH Platanenstraße 14 D-09350 Lichtenstein, Germany Telephone +49-37204-696-0; Fax +49-37204-696-55; E-mail info@centurion-engines.com.