


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE	
	<p>PAD No.: 09-071</p> <p>Date: 19 May 2009</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>TAE125-02-99 engines</p>	
<p>TCDS Number : EASA.E.055</p>		
<p>Foreign AD : Not applicable</p>		
<p>Supersedure : None</p>		
<p>ATA 61</p>	<p>Propellers – Propeller Control Valve – Replacement (Life Limit)</p>	
<p>Manufacturer(s):</p>	<p>Thielert Aircraft Engines GmbH.</p>	
<p>Applicability:</p>	<p>TAE125-02-99 engines, all serial numbers, if installed on Diamond Aircraft Industries Model DA 42 aircraft.</p>	
<p>Reason:</p>	<p>In-flight engine shutdown incidents have been reported on Diamond Aircraft Industries DA 42 aircraft equipped with TAE125 engines. Preliminary investigations showed that it was mainly the result of failure of the propeller control valve. This condition, if not corrected, could lead to further cases of engine in-flight shutdown, possibly resulting in reduced control of the aircraft.</p> <p>EASA AD 2008-0130 was published to require implementation of a life limit of 300 flight hours (FH) for the Proportional Pressure Reducing Valve 24V (propeller control valve) Part Number (P/N) NM-0000-0124501 and replacement of propeller control valves that have exceeded the established life limit. The same P/N valve is also installed on TAE125-02-99 engines.</p> <p>As this problem has only manifested itself on these engines as installed on Diamond Aircraft Industries DA 42 aircraft, TAE125-01 or TAE125-02-99 engines installed on other aircraft are not affected.</p> <p>In addition to the information stated above, it has been found out that failures of the electrical connection to the Proportional Pressure Reducing Valve 24V (propeller control valve) Part Number (P/N) NM-0000-0124501 and 05-7212-K021401 contributed to power loss events or IFSD. For preventing such failures, a new Proportional Pressure Reducing Valve 24V (propeller control valve) Part Number (P/N) 05-7212-E002801 has been introduced.</p>	

Effective Date:	[TBD: 14 days after final AD issue date]																
Required action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) For TAE125-02-99 engines, if TAE SB TM 125-1007 P1 initial issue or revision 1 has not been accomplished yet, modify the VProp Plug and install the propeller control valve P/N 05-7212-E002801 in accordance with the instructions of Thielert Aircraft Engines TM TAE125-0007 P1 Revision 2 at the time indicated in Table 1 below:</p> <table border="1" data-bbox="576 461 1412 824"> <thead> <tr> <th colspan="2" data-bbox="576 461 1412 512">Table 1</th> </tr> <tr> <th data-bbox="576 512 946 595">Gearbox accumulated time since new:</th> <th data-bbox="946 512 1412 595">Compliance time:</th> </tr> </thead> <tbody> <tr> <td data-bbox="576 595 946 712">More than 400 FH</td> <td data-bbox="946 595 1412 712">55 FH or during the next scheduled maintenance, whichever occurs first</td> </tr> <tr> <td data-bbox="576 712 946 824">Less than 400 FH</td> <td data-bbox="946 712 1412 824">Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later.</td> </tr> </tbody> </table> <p>(2) For TAE125-02-99 engines, if TAE SB TM 125-1007 P1 initial issue or revision 1 has already been accomplished, modify the VProp Plug and install the propeller control valve P/N 05-7212-E002801 in accordance with the instructions of Thielert Aircraft Engines TM TAE125-0007 P1 Revision 2 at the time indicated in Table 1 below:</p> <table border="1" data-bbox="576 1005 1412 1341"> <thead> <tr> <th colspan="2" data-bbox="576 1005 1412 1057">Table 1</th> </tr> <tr> <th data-bbox="576 1057 946 1142">Engine accumulated time since new:</th> <th data-bbox="946 1057 1412 1142">Compliance time:</th> </tr> </thead> <tbody> <tr> <td data-bbox="576 1142 946 1258">More than 284 FH</td> <td data-bbox="946 1142 1412 1258">100 FH or during the next scheduled maintenance, whichever occurs first</td> </tr> <tr> <td data-bbox="576 1258 946 1341">Less than 284 FH</td> <td data-bbox="946 1258 1412 1341">Upon accumulating 300 FH (scheduled maintenance).</td> </tr> </tbody> </table> <p>(3) After compliance with paragraph (1) or (2) of this AD, as applicable to engine model, at intervals not to exceed 300 FH, replace the propeller control valve P/N 05-7212-E002801 in accordance with the instructions of Thielert Aircraft Engines TM TAE125-1007 P1 Rev. 2.</p>	Table 1		Gearbox accumulated time since new:	Compliance time:	More than 400 FH	55 FH or during the next scheduled maintenance, whichever occurs first	Less than 400 FH	Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later.	Table 1		Engine accumulated time since new:	Compliance time:	More than 284 FH	100 FH or during the next scheduled maintenance, whichever occurs first	Less than 284 FH	Upon accumulating 300 FH (scheduled maintenance).
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Ref. Publication:	<p>Thielert Service Bulletin TM TAE125-1007 P1 Revision 2 dated 29 April 2009.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>																
Remarks :	<ol style="list-style-type: none"> <li data-bbox="520 1659 1358 1688">1. This Proposed AD will be closed for consultation on 16 June 2009. <li data-bbox="520 1709 1382 1794">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. <li data-bbox="520 1814 1442 1993">3. For any questions 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 																