

SERVICE INFORMATION NO. SI 42-112

NOTE: SI's are used only:
1) To distribute information from DAI to our customers.
2) To distribute applicable information/documents from our suppliers to our customers with additional information.
Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 42 airplanes equipped with TAE 125-01 engines

1.2 Subject:

EASA AD No. 2008-0145R1
ATA-Code: 61-00

1.3 Reason:

EASA has issued Revision 1 of the Airworthiness Directive concerning the replacement of the propeller control valve, P/N NM-0000-0124501. This revision has been issued to reduce the applicability. EASA AD No. 2009-0151 covers the subject for the TAE 125-02-99 engines.

1.4 Information:

For detailed technical information see EASA AD No. 2008-0145R1 which is applicable without any further additions or restrictions.


NOTE:

This Airworthiness Directive supersedes EASA AD No. 2008-0130, dated 15-Jul-2008.


II. OTHERS

The EASA AD No. 2008-0145R1 is attached to this SI.

In case of doubt contact Thielert Aircraft Engines GmbH.

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2008-0145R1</p> <p>Date: 23 July 2009</p> <p>Note: This Airworthiness Directive (AD) 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>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p>Type Approval Holder's Name :</p> <p>Thielert Aircraft Engines GmbH</p>	<p>Type/Model designation(s) :</p> <p>TAE125 engines</p>
TCDS Number :	EASA.E.055
Foreign AD :	Not applicable
Supersedure :	This AD supersedes EASA AD 2008-0130 dated 15 July 2008.
ATA 61	Propellers – Propeller Control Valve – Replacement (Life Limit)
Manufacturer(s):	Thielert Aircraft Engines GmbH.
Applicability:	TAE125-01 engines, all serial numbers, if installed on Diamond Aircraft Industries Model DA 42 aircraft.
Reason:	<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 has been 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 on TAE125-01 engines 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 those engines, as installed on Diamond Aircraft Industries DA 42 aircraft, any TAE125-01 and TAE125-02-99 engines installed on other aircraft are not affected.</p> <p>For the reasons stated above, this EASA AD retains the requirements of AD 2008-0130, which is superseded, and expands the applicability to include TAE125-02-99 engines on Diamond DA 42 aircraft that have the affected valve installed.</p> <p>This revision has been issued to reduce the applicability. AD 2009-0151 covers the subject for the TAE 125-02-99 engines.</p>
Effective Date:	15 August 2008

Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) For TAE125-01 engines, initially replace the propeller control valve P/N NM-0000-0124501 in accordance with the instructions of Thielert Aircraft Engines (TAE) Service Bulletin (SB) TM TAE125-0018 at the time indicated in Table 1 below:</p> <table border="1" data-bbox="557 300 1394 763"> <thead> <tr> <th colspan="2" data-bbox="557 300 1394 344">Table 1</th> </tr> <tr> <th data-bbox="557 344 927 427">Gearbox accumulated time since new:</th> <th data-bbox="927 344 1394 427">Compliance time:</th> </tr> </thead> <tbody> <tr> <td data-bbox="557 427 927 595">More than 400 FH</td> <td data-bbox="927 427 1394 595">55 FH or during the next scheduled maintenance, whichever occurs first after 29 July 2008, the effective date of AD 2008-0130.</td> </tr> <tr> <td data-bbox="557 595 927 763">Less than 400 FH</td> <td data-bbox="927 595 1394 763">Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after 29 July 2008, the effective date of AD 2008-0130.</td> </tr> </tbody> </table> <p>(2) For TAE125-02-99 engines, initially replace the propeller control valve P/N NM-0000-0124501 in accordance with the instructions of TAE SB TM TAE125-1007 P1 at the time indicated in Table 2 below:</p> <table border="1" data-bbox="557 875 1394 1279"> <thead> <tr> <th colspan="2" data-bbox="557 875 1394 920">Table 2</th> </tr> <tr> <th data-bbox="557 920 927 1003">Gearbox accumulated time since new:</th> <th data-bbox="927 920 1394 1003">Compliance time:</th> </tr> </thead> <tbody> <tr> <td data-bbox="557 1003 927 1144">More than 400 FH</td> <td data-bbox="927 1003 1394 1144">55 FH or during the next scheduled maintenance, whichever occurs first after the effective date of this AD</td> </tr> <tr> <td data-bbox="557 1144 927 1279">Less than 400 FH</td> <td data-bbox="927 1144 1394 1279">Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after the effective date of this AD</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 NM-0000-0124501 in accordance with the instructions of TAE SB TM TAE125-0018 or SB TM TAE125-1007 P1, as applicable.</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 after 29 July 2008, the effective date of AD 2008-0130.	Less than 400 FH	Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after 29 July 2008, the effective date of AD 2008-0130.	Table 2		Gearbox accumulated time since new:	Compliance time:	More than 400 FH	55 FH or during the next scheduled maintenance, whichever occurs first after the effective date of this AD	Less than 400 FH	Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after the effective date of this AD
Table 1																	
Gearbox accumulated time since new:	Compliance time:																
More than 400 FH	55 FH or during the next scheduled maintenance, whichever occurs first after 29 July 2008, the effective date of AD 2008-0130.																
Less than 400 FH	Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after 29 July 2008, the effective date of AD 2008-0130.																
Table 2																	
Gearbox accumulated time since new:	Compliance time:																
More than 400 FH	55 FH or during the next scheduled maintenance, whichever occurs first after the effective date of this AD																
Less than 400 FH	Upon accumulating 300 FH (first scheduled maintenance), or within 110 FH, whichever occurs later after the effective date of this AD																
Ref. Publication:	<p>Thielert Aircraft Engines SB TM TAE125-0018 dated 19 June 2008 and TM TAE125-1007 P1 dated 11 July 2008.</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="504 1581 1453 1641">1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. <li data-bbox="504 1648 1453 1742">2. The original AD was posted on 16 July 2008 as PAD 08-082 for consultation until 30 July 2008. No comments were received during the consultation period. <li data-bbox="504 1749 1453 1843">3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. <li data-bbox="504 1850 1453 2002">4. For any question concerning the technical content of the requirements in this AD, 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 																

EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2008-0130</p> <p>Date: 15 July 2008</p> <p>Note: This Airworthiness Directive (AD) 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>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>		
<p>Type Approval Holder's Name :</p> <p>Thielert Aircraft Engines GmbH</p>	<p>Type/Model designation (s) :</p> <p>TAE125-01 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): Thielert Aircraft Engines GmbH.</p>		
<p>Applicability: TAE125-01 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 TAE125-01 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>For the reasons stated above, this EASA AD introduces 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 requires the replacement of propeller control valves that have exceeded the established life limit.</p> <p>As this problem has only manifested itself on this engine as installed on Diamond Aircraft Industries DA 42 aircraft, TAE125-01 engines installed on other aircraft are not affected.</p>	
<p>Effective Date: 29 July 2008</p>		

Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Initially, replace the propeller control valve P/N NM-0000-0124501 in accordance with the instructions of Thielert Aircraft Engines Service Bulletin TM TAE125-0018 at the time indicated in Table 1 below:</p> <table border="1" data-bbox="544 322 1378 779"> <thead> <tr> <th colspan="2" data-bbox="544 322 1378 376">Table 1</th> </tr> <tr> <th data-bbox="544 376 951 456">Gearbox accumulated time since new:</th> <th data-bbox="951 376 1378 456">Compliance time:</th> </tr> </thead> <tbody> <tr> <td data-bbox="544 456 951 602">More than 400 FH</td> <td data-bbox="951 456 1378 602">55 FH or during the next scheduled maintenance, whichever occurs first after the effective date of this AD</td> </tr> <tr> <td data-bbox="544 602 951 779">Less than 400 FH</td> <td data-bbox="951 602 1378 779">Upon accumulating 400 FH (first scheduled maintenance) or within 400 FH, whichever occurs later after the effective date of this AD</td> </tr> </tbody> </table> <p>(2) Thereafter, at intervals not to exceed 400 FH, replace the propeller control valve P/N NM-0000-0124501 in accordance with the instructions of Thielert Aircraft Engines Service Bulletin TM TAE125-0018.</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 after the effective date of this AD	Less than 400 FH	Upon accumulating 400 FH (first scheduled maintenance) or within 400 FH, whichever occurs later after the effective date of this AD
Table 1									
Gearbox accumulated time since new:	Compliance time:								
More than 400 FH	55 FH or during the next scheduled maintenance, whichever occurs first after the effective date of this AD								
Less than 400 FH	Upon accumulating 400 FH (first scheduled maintenance) or within 400 FH, whichever occurs later after the effective date of this AD								
Ref. Publication:	<p>Thielert Service Bulletin TM TAE125-0018 dated 19 June 2008.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>								
Remarks :	<ol style="list-style-type: none"> <li data-bbox="488 1066 1437 1126">1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. <li data-bbox="488 1144 1422 1234">2. This AD was posted on 25 June 2008 as PAD 08-073 for consultation until 09 July 2008. The Comment Response Document can be found at http://ad.easa.europa.eu. <li data-bbox="488 1252 1465 1341">3. Inquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADS@easa.europa.eu. <li data-bbox="488 1359 1461 1570">4. For any questions concerning the technical content of the requirements in this AD, 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 								