

## SERVICE INFORMATION NO. SI 42-138

**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 and DA 42 M aircraft equipped with TAE 125-02-99 engines.

#### 1.2 Subject:

EASA Airworthiness Directive 2010-0136 Engine – Timing Chain – Replacement  
ATA-Code: 72-00

#### 1.3 Reason:

EASA has published this AD to prevent a possible fracture of the timing chain due to chain wear. TAE has developed reinforced timing chains and issued Service Bulletin TM TAE 125-1010 P1, which describes the replacement of the timing chain.


#### 1.4 Information:

For detailed technical information see EASA AD 2010-0136 Engine – Timing Chain – Replacement, which is applicable without any further additions or restrictions.

### II. OTHERS

EASA Airworthiness Directive 2010-0136 is attached to this Service Information.

In case of doubt contact Thielert Aircraft Engines GmbH.

<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2010-0136</b></p> <p><b>Date: 30 June 2010</b></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><b>Type Approval Holder's Name :</b></p> <p>Thielert Aircraft Engines GmbH</p>	<p><b>Type/Model designation(s) :</b></p> <p>TAE 125 series engines</p>
<p>TCDS Number : EASA E.055</p>	
<p>Foreign AD : Not applicable</p>	
<p>Supersedure : None.</p>	
<b>ATA 72</b>	<b>Engine - Timing Chain - Replacement</b>
<p>Manufacturer(s):</p>	<p>Thielert Aircraft Engines GmbH.</p>
<p>Applicability:</p>	<p>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>
<p>Reason:</p>	<p>Service experience has shown that fracture of the timing chain has occurred due to chain wear.</p> <p>This condition, if not corrected, could lead to in-flight cases of engine shutdown.</p> <p>To address and correct this situation, TAE has developed reinforced timing chains.</p> <p>For the reason described above, this AD requires the replacement of the timing chain.</p>
<p>Effective Date:</p>	<p>14 July 2010</p>
<p>Required action(s) and Compliance Time(s):</p>	<p>Required as indicated:</p> <p>(1) For engines with the following serial numbers:</p> <p>From 02-02-01510 to 02-02-01514 inclusive;</p> <p>From 02-02-01518 to 02-02-01520 inclusive;</p> <p>02-02-01529, 02-02-01717, 02-02-01718, 02-02-01720, 02-02-01721;</p> <p>02-02-01727, 02-02-01728;</p>

	<p>From 02-02-01730 to 02-02-01733 inclusive; From 02-02-01739 to 02-02-01752 inclusive.</p> <p>(1.1) For engines Time Since New (TSN) having accumulated between 500 Flight Hours (FH) and 600 FH inclusive, within 110 FH after the effective date of this AD or at the next maintenance, whichever occurs first, replace the timing chain in accordance with Thielert Aircraft Engines SB TM TAE 125-1010 P1 Initial Issue.</p> <p>(1.2) For engines TSN having accumulated 601 FH or more, within 55 FH after the effective date of this AD or at the next maintenance, whichever occurs first, replace the timing chain in accordance with Thielert Aircraft Engines SB TM TAE 125-1010 P1 Initial Issue.</p> <p>(2) For all engines not listed in paragraph (1) of this AD: Before the engine has reached 910FH or within 55FH after the effective date of this AD, whichever occurs later, replace the timing chain in accordance with Thielert Aircraft Engines SB TM TAE 125-1010 P1 Initial Issue.</p> <p>(3) Thereafter, for <b>all</b> engines indicated in the "Applicability" of this AD, if installed in single engine aircraft, at intervals not to exceed 910 FH from previous replacement, replace the timing chain in accordance with Thielert Aircraft Engines SB TM TAE 125-1010 P1 Initial Issue.</p>
Ref. Publication:	<p>Thielert Aircraft Engines SB TM TAE 125-1010 P1 Initial Issue dated 01 April 2010.</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>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. This AD was posted on 23 April 2010 as PAD 10-037 for consultation until 21 May 2010. The Comment Response Document can be found at <a href="http://ad.easa.europa.eu/">http://ad.easa.europa.eu/</a>.</li> <li>3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA. E-mail <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</li> <li>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 +49-37204-696-2912; E-mail <a href="mailto:info@centurion-engines.com">info@centurion-engines.com</a>.</li> </ol>