


<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>	
	<p><b>AD No : 2007-0126</b></p> <p><b>Date: 07 May 2007</b></p>	
<p>No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registration.</p>		
<p><b>Type Approval Holder's Name :</b> TURBOMECA, S.A.</p>	<p><b>Type/Model designation(s) :</b> ARRIEL 2B turboshaft engines</p>	
<p>TCDS Number : EASA E.001</p>		
<p>Foreign AD : Not applicable</p>		
<p>Supersedure : EASA AD 2007-0006</p>		
<p><b>ATA 73</b></p>	<p><b>Engine Fuel &amp; Control – Hydro-Mechanical Unit (HMU) Constant Delta Pressure Valve Diaphragm – Replacement</b></p>	
<p>Manufacturer(s):</p>	<p>Turboméca S.A.</p>	
<p>Applicability:</p>	<p>ARRIEL 2B1 turboshaft engines, all serial numbers. These engines are known to be installed on, but not limited to, Eurocopter (formerly Aerospatiale) AS 350 B3 and EC 130 B4 helicopters.</p>	
<p>Reason:</p>	<p>This AD is prompted by several reported cases of rupture of the constant delta pressure valve diaphragm on ARRIEL 2B1 engines, due to the wear of the delta-P diaphragm fabric. Rupture can result in the loss of the automatic control mode of the helicopter, accompanied with a deterioration of the behaviour of the auxiliary back-up mode (emergency mode). On a single-engine helicopter, the result may be an emergency landing or, at worst, an accident.</p> <p>This AD supersedes EASA AD 2007-0006 which required the removal from service of all the delta Pressure valve diaphragms logging more than 2,000 hours since new.</p> <p>Since issuance of EASA AD 2007-0006, no further case of rupture of the constant delta pressure valve diaphragm has been reported on ARRIEL 2 engines. However, about 40 additional diaphragms returning from service have been inspected by Turbomeca, and some signs of wear have been detected on diaphragms having logged less than 2,000 hours. Based on the inspection results, it has been decided to decrease this limit from 2,000 hours to 1,500 hours in order to further reduce the probability of delta-P diaphragm rupture.</p>	

SUPERSEDED

Effective Date:	21 May 2007
Compliance:	<p>The following measures are made mandatory from the effective date of this AD:</p> <p>1. Adjusted HMU that have operated for more than 1,500 hours since one of the following, whichever occurs later :</p> <ul style="list-style-type: none"> <li>- New,</li> <li>- Overhaul,</li> <li>- Incorporation of SB 292 73 2105 (all issues),</li> <li>- Incorporation of SB 292 73 2818 (all issues),</li> </ul> <p>must be replaced and returned to a Repair Center for replacement of the constant delta P diaphragm, as soon as an adjusted HMU is made available, though not later than 30 July 2007.</p> <p>2. After 30 July 2007: Upon accumulating 1,500 operating hours since one of the following, whichever occurs later :</p> <ul style="list-style-type: none"> <li>- New,</li> <li>- Overhaul,</li> <li>- Incorporation of SB 292 73 2105 (all issues),</li> <li>- Incorporation of SB 292 73 2818 (all issues).</li> </ul> <p>replace the adjusted HMU and return it to a Repair Center for replacement of the constant delta P diaphragm.</p> <p>After applying the instructions of Turbomeca Mandatory Service Bulletin 292 73 2818, the compliance certificate for replacement of HMU must be sent to Turbomeca within 7 days, as stated in paragraph 2.D.(1)(c).</p>
Ref. Publications:	Turbomeca Mandatory Service Bulletin n° 292 73 2818, Update n°1 or later approved revisions.
Remarks :	<p>1. If requested and appropriately substantiated the responsible EASA manager for the related product has the authority to accept Alternative Methods of Compliance (AMOC) for this AD.</p> <p>2. This AD was posted as PAD 07-065 on 19 April 2007 for consultation until 03 May 2007. No comments were received during that period.</p> <p>3. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA; E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a> .</p> <p>4. For any question concerning the technical content of the requirements in this AD, please contact: Turboméca, S.A., ARRIEL 2 Customer Support, 40220 TARNOS, FRANCE. Fax: +33 5 59 74 45 15. or your usual or nearest TURBOMECA technical representative (refer to <a href="http://www.turbomeca-support.com">http://www.turbomeca-support.com</a>)</p>