


EASA	EMERGENCY AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2012-0185-E</p> <p>Date: 12 September 2012</p> <p>Note: This Emergency 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>		
Design Approval Holder's Name:		Type/Model designation(s):
Rolls-Royce Deutschland Ltd & Co KG		Tay 620-15 series engines
TCDS Number:	EASA.E.063	
Foreign AD:	Not applicable	
Supersedure:	None	
ATA 72	Engine – Low Pressure Compressor Rotor Blades – Inspection / Replacement	
Manufacturer(s):	Rolls-Royce plc	
Applicability:	<p>Tay 620-15 engines, serial numbers 17054, 17085, 17088, 17107 and 17166.</p> <p>These engines are known to be installed on, but not limited to, Fokker F28 Mk.0070 and Fokker F28 Mk.0100 aeroplanes.</p>	
Reason:	<p>Fan blade off on a Tay 620-15 engine has recently been reported. Subsequent investigation results identified vibration induced by a fan blade flutter as a possible cause of fan blade root failure leading to the blade off.</p> <p>This condition, if not detected and corrected, could lead to the blade failure potentially causing release of high-energy debris, possibly resulting in damage to the aeroplane and/or injury to the occupants.</p> <p>To minimise the potential for further fan blade failure occurrences Rolls Royce Deutschland (RRD) issued a Non-Modification Service Bulletin (NMSB) Alert Tay-72-A1775 providing instruction for Low Pressure Compressor (LPC) fan blades inspection. The NMSB Alert Tay-72-A1775 was updated to Revision 1 shortly after Initial issue was released due to minor wording correction.</p> <p>For the reasons described above, this AD requires accomplishment of two ultrasonic inspections of the LPC fan blades and, depending of finding, accomplishment of a corrective action.</p>	
Effective Date:	12 September 2012	

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) Before next flight, after the effective date of this AD, and thereafter before 1 500 engine flight hours (EFH) but not before 1 000 EFH after initial inspection, accomplish an ultrasonic inspection of the LPC fan blades in accordance with RRD NMSB 72-A1775 Revision 1. (2) If during any of the two inspections as required by paragraph (1) of this AD, any indication of a fan blade crack is detected, before next flight, replace the complete set of LPC fan blades and the LPC fan disc with a serviceable LPC fan blade set and LPC fan disc. After replacement return the removed parts to RRD for further investigation. (3) Replacement of the set of LPC fan blades and LPC fan disc, as required by paragraph (2) of this AD constitutes terminating action for inspections required by paragraph (1) of this AD.
<p>Ref. Publications:</p>	<p>RRD NMSB Alert Tay-72-A1775 Revision 1, dated 12 September 2012.</p> <p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks:</p>	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full public consultation process. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: Rolls-Royce Deutschland Ltd & Co KG Eschenweg 11 - 15827 Dahlewitz – Germany Phone: +49 (0) 33 7086 1768 ; Fax: +49 (0) 33 7086 3356.