


EASA	EMERGENCY AIRWORTHINESS DIRECTIVE
	EAD No.: 2010-0114-E Date: 14 June 2010 Note: This Emergency Airworthiness Directive (EAD) 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
This EAD 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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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].	
Type Approval Holder's Name : ROLLS-ROYCE TURBOMECA Ltd	Type/Model designation(s) : RTM 322-01/9 and RTM 322-01/9A turboshaft engines
TCDS Number : EASA E.009	
Foreign AD : Not applicable	
Supersedure : Not applicable	
ATA 72	Engine - M01 Compressor - Second Stage Compressor Axial Wheel and Impeller – Inspection
Manufacturer(s): Rolls-Royce Turbomeca Ltd	
Applicability:	RTM 322-01/9 and RTM 322-01/9A turboshaft engines, all serial numbers. These engines are known to be installed on, but not limited to, NH Industries NH90 (military) helicopters.
Reason:	<p>There have been three incidents on RTM 322-01/9 and RTM 322-01/9A turboshaft engines fitted on NH90 helicopters, causing two engine In-Flight Shut-Down (IFSD) and one engine Shut-Down on ground.</p> <p>Strip inspections of the involved engines evidenced similarities in terms of damage on the following parts:</p> <ul style="list-style-type: none"> - Second stage compressor axial wheel: cracks on adjacent blades or partial/complete loss of adjacent blades. - Impeller: crack and/or partial loss of one leading edge fragment. <p>Such cracks, if not detected, could lead to further in-flight shutdown.</p> <p>For the reasons stated above, this AD requires repetitive borescope inspections of the second stage compressor axial wheel and centrifugal impeller. Furthermore, it precludes further engine operation if any evidence of cracks anywhere on blades and/or rubs on axial wheel blade tips only is detected.</p>

Effective Date:	16 June 2010
Required action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <ol style="list-style-type: none"> (1) Within 5 Engine Flying Hours (EFH) after the effective date of this AD, accomplish a borescope inspection of the second stage compressor axial wheel and impeller, and inspect each blade tip in accordance with the Accomplishment Instructions of ROLLS-ROYCE TURBOMECA Ltd Emergency Mandatory Service Bulletin SBP-M3-A-72-31-00-05A-A-A. (2) Repeat the inspection required by paragraph (1) of this AD at intervals not exceeding 5 EFH. (3) If the inspection results show sign of rubs or blade cracks, engine operation is not allowed. Contact the engine manufacturer for further instructions and accomplish them accordingly. (4) From the effective date of this EAD, do not install any affected engine on a helicopter unless it has been inspected in accordance with paragraph (1) of this AD.
Ref. Publications:	<p>ROLLS-ROYCE TURBOMECA Ltd Emergency Mandatory Service Bulletin SBP-M3-A-72-31-00-05A-A-A.</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"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this EAD. 2. The safety assessment has justified waiving the full consultation process and proceeding to immediate publication and notification. 3. Enquiries regarding this EAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this EAD, please contact: your usual or nearest TURBOMECA technical representative (refer to http://www.turbomeca-support.com).