EASA EAD No.: 2010-0041-E

EASA

EMERGENCY AIRWORTHINESS DIRECTIVE



EAD No.: 2010-0041-E

Date: 12 March 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 colicable 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 An ex I, I of M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Authority of the State of Re	egistry [EC 216/2008, Article 14(4) e	xemption].	
	Holder's Name : TURBOMECA Ltd	Type/Model designation(s): RTM 327-019 and RTM 322-01/9A turbosh ftt angles	
TCDS Number :	EASA E.009		
Foreign AD :	Not applicable		
Supersedure :	Not applicable		
ATA 75	Air System - P2 A	ir Tube and High Pressure Turbine (HPT)	
Manufacturer(s):	Rolls-Royce Tulk Sca 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 N 190 (military) helicopters.		
was the release casing, some of		r equipped with three RTM322-01/8 Mk100 engines d failure of the No.1 engine. The initial symptom stage power turbine (PT1) blades from the engine punctured the No.1 engine bay firewall and the No.2 engine intake and were then ingested	
	released radially from to softened as a result of growth to allow not only PT1 and PT2 discs. The passages of the HPT in between the high pression source of fuel for the fill cooling air supply tube interduct, the combustion tubes that also traverse	on showed that the turbine blades had been he PT1 Disc. The PT1 Disc had been significantly overheating, which had resulted in sufficient disc y the PT1 blade release but also separation of the ere was evidence of a fire within the inner air neterduct, which is the engine static structure sure and power turbine sections. The most likely re is thought to be oil. The P2.5 buffering and through the interduct, the inner walls of the on chamber outer casing and the three oil supply the interduct and their associated adapters and of significant oil leakage and/or lacquering.	

EASA Form 111 Page 1/2

	Although the investigation is on-going, there is sufficient evidence at this stage to point to an oil leak as the root cause of the event and to justify immediate mitigating action. The RTM 322-01/9 and RTM 322-01/9A engines have similar architecture to the non-civil certified RTM 322-01/8 engine and are susceptible to the same condition that resulted in the uncontained failure. This condition, if not corrected, could lead to release of hazardous debris, fire or loss of power in flight. This AD requires repetitive inspections of engines for oil leakage in the vicinity of the P2.5 air tube and interduct, and immediate withdrawal from service of any engine exhibiting signs of oil leakage in these areas.	
Effective Date:	14 March 2010	
Required action(s) and Compliance Time(s):	Required as indicated: (1) Within 1 month or 25 flight hours after the effective date of this AD, whichever occurs first, inspect the P2.5 and the and HPT interduct in accordance with the Accomplishment his nuclions of Rolls Royce Turbomeca Emergency Mandato v Service Bulletin SBP-M3-A-75-09-00-01A-A-A.	
	 (2) Repeat the inspection required by paragraph (1) at intervals not exceeding 200 flight hours. (3) If evidence of any oil leak pais round, as defined in paragraphs 1.1.7, 1.2.3.2, 1.2.3.3, 1.2.3.4 and 1.3.3.5 of the referenced Accomplishment Instructions, engine operation in not allowed. 	
	(4) After the effective clase of this AD, do not install any affected engine on a helicopter unless dispected in accordance with paragraph (1) of this AD.	
Ref. Publications:	Rolls Royce Turbomeca Smergency Mandatory Service Bulletin SBP-M3-A-75-09-00-01 (-A-7). The use of late approved revisions of this document is acceptable for compliance with the requirements of this AD.	
Remarks :	 If receivested and appropriately substantiated, EASA can approve Alternative wiethods of Compliance for this EAD. The same assessment has justified waiving the full consultation paces and proceeding to immediate publication and notification. Enquiries regarding this EAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. For any questions concerning the technical content of the requirements in this EAD, please contact: your usual or nearest TURBOMECA technical representative (refer to 	

EASA Form 111 Page 2/2