EASA AD No.: 2015-0090

EASA

AIRWORTHINESS DIRECTIVE

AD No.: 2015-0090

Date: 22 May 2015

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.

This AD is issued in accordance with EU 748/2012, Part 21.A.3B. In accordance with EU 1321/2014 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 [EU 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Design Approval Holder's Name: TURBOMECA		Type/Model designation(s): RTM 322 engines	
TCDS Number:	EASA.E.009		
Foreign AD:	Not applicable		
Supersedure:	None		
ATA 76	Engine Controls – E	Engine Controls – Electrical Wiring Harness – Modification	
Manufacturer(s):	Turbomeca, S.A.		
Applicability:	RTM 322-01/9 and RTM 322-01/9A engines, all serial numbers. These engines are known to be installed on, but not limited to, NH Industries NH90 (military) helicopters.		
Reason:	captions linked to the In resolver. The results of prevalent in hot and sar from single lane failure i	the RTM 322 fleet experienced a number of standby let Guide Vane (IGV) / Variable Stator Vane (VSV) the technical investigations concluded that this is ndy environment. Although standby caption resulting in the Engine Electronic Control Unit would not affect t field survey showed an increasing occurrence rate V / VSV resolver.	
	in particular the IGV / VS events. This disconnect the ratchet mechanism. assembly and disassem matter and self-generati on the same engine dur	dentified the backing-off of ES2/3 harness connectors SV resolver connectors, as the cause of the in-service ion is most likely due to the high level of wear within. The wear is considered to be the result of repeated ably of the connectors which enabled ingress of foreigning debris. In case both IGV / VSV resolver lanes failing a single flight, this would result in the loss of IGV use a compressor surge.	
	This condition, if not cor	rected, may lead to an uncommanded engine In-Fligsibly resulting in an emergency landing.	

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	To address this potential unsafe condition, Turbomeca issued Mandatory Service Bulletin (MSB) MSBP-M3-A-76-10-10-02A-A-A, providing instructions for installation of a wire lock on the four IGV / VSV connectors (two IGV / VSV resolver connectors and two IGV / VSV actuator connectors), for engines operating in a hot and sandy environment. For the reasons described above, this AD requires installation of a wire lock on the IOV (VOX) assessed as a service of the IOV (VOX) assessed as a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) as a service of the IOV (VOX) as a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) as a service of the IOV (VOX) as a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and IOV (VOX) are a service of the IOV (VOX) and		
	the IGV / VSV connectors.		
Effective Date:	05 June 2015		
Required action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously:		
	(1) Within 630 engine hours (EH) after the effective date of this AD, accomplish the following actions:		
	(1.1) Determine the engine history and operating conditions.		
	(1.2) If the engine operates, or has been operated, in a sandy environment (see Note 1), or the operating conditions and/or operational history of the engine cannot be determined, modify the engine by installing a wire lock on the IGV / VSV connectors in accordance with the accomplishment instructions of Turbomeca MSBP-M3-A-76-10-10-02A-A-A.		
	Note 1: The applicable MSB provides a definition of a "sandy environment".		
	(2) After modification of an engine as required by paragraph (1.2) of this AD, each time the IGV / VSV connectors are disconnected on that engine (see Note 2), before next flight after re-connection of the IGV / VSV connectors, install a wire lock on the IGV / VSV connectors.		
	Note 2: The applicable MSB provides a list of tasks that require connection and/or disconnection of the IGV / VSV connectors.		
	(3) For an engine for which it has been determined, as required by paragraph (1) of this AD, that it does not operate in, and has never been operated in, a sandy environment (see Note 1 of this AD), if, at any time after the effective date of this AD, the type of mission or geographical operating area in which the engine is operated changes, within 630 EH after such a change, accomplish the actions as specified in paragraph (1.1) and, depending on determination, paragraph (1.2) of this AD.		
	(4) From the effective date of this AD, do not install an engine on a helicopter, unless in compliance with the requirements of this AD.		
Ref. Publications:	Turbomeca MSBP-M3-A-76-10-10-02A-A-A Issue 1 dated 24 March 2015.		
	The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.		
Remarks :	If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.		
	 This AD was posted on 16 April 2015 as PAD 15-045 for consultation until 14 May 2015. No comments were received during the consultation period. 		
	 Enquiries regarding this AD should be referred to the Safety Information Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 		
	 For any question concerning the technical content of the requirements in this AD, please contact: Operator Support & Sales RTM322 - TURBOMECA 40220 TARNOS – France Telephone: +33 (0)5 59 74 40 00, Fax: +33 (0)5 59 74 45 15, 		
	or contact your nearest TURBOMECA field representative on http://www.turbomeca-support.com .		