EASA	AIRWORTHINESS DIRECTIVE	
1	AD No.: 2011-018	2R1
	Date: 03 February	y 2012
E	Note: This Airworthiness Regulation (EC) No 216/ and of the European third 66 of that Regulation.	Directive (AD) is issued by EASA, acting in accordance with 2008 on behalf of the European Community, its Member States a countries that participate in the activities of EASA under Article
This AD is issued in accordance continuing airworthiness of an a operate an aircraft to which an A the Agency [EC 2042/2003 Annex exemption].	with EC 1702/2003, Part 21A.3B ircraft shall be ensured by acco D applies, except in accordance k I, Part M.A.303] or agreed with	. In accordance with EC 2042/2003 Annex I, Part M.A.301, the pmplishing any applicable ADs. Consequently, no person may with the requirements of that AD, unless otherwise specified by the Authority of the State of Registry [EC 216/2008, Article 14(4)
Type Approval Holder's Name :		Type/Model designation(s) :
TURBOMECA		ARRIUS 2F turboshaft engines
TCDS Number : Fra	ance nM22	
Foreign AD : No	t applicable	
Revision : Thi 20	is AD revises EASA AD 20 11-0182 superseded EASA	11-0182 dated 22 September 2011. EASA AD AD 2008-0134R1 dated 17 February 2009.
ATA 73	Engine Fuel & Contro	ol - P3 Air Pipe – Inspection / Modification
Manufacturer(s):	Turbomeca	
Applicability:	ARRIUS 2F turboshaft	engines, all serial numbers.
	These engines are kno EC120B helicopters.	wn to be installed on, but not limited to, Eurocopter
Reason:	On several ARRIUS 2F Part Number (P/N) 031 0319998240 has been	engines, the clearance between the P3 air pipe 9719180 and the rear right bulkhead P/N found to be too small.
	Investigations have shown that both P3 air pipe and rear right bulkhead were compliant with the design. Turbomeca Engineering Department concluded that the tolerance of assembly established during the design could result in some rubbing between parts.	
	This condition, if not de between the pipe and t pipe, prompting the fue reduced control of the	etected and corrected, could lead to chafing he bulkhead and consequent rupture of the P3 air al control system to go to idle which could result in helicopter.
	To address this unsafe the inspection of the P3 half-wall and, in case it replacement or readjust	condition, EASA issued AD 2008-0134 to require 3 air pipe (first section) and Right Hand (RH) rear was found damaged or non-compliant, the stment of parts.

	EASA AD 2008-0134R1 was issued to clarify the wording. It emphasized that, under some circumstances, repetitive inspections are required.	
	Since issuance of EASA AD 2008-0134R1, the results of investigations by Turbomeca have shown that the clearance between the P3 air pipe and the RH rear half-wall might change during installation of the engine on the helicopter. The same investigations have shown that, when a RH rear half-wall P/N 0319998240 is installed on an engine which is already installed on an helicopter, a clearance of more than 0,5 mm between the RH rear half-wall and the P3 air pipe is sufficient to prevent any chaffing between the two parts. This means that the inspections have be to accomplished again on engines that have already been inspected and corrected as required by AD 2008-0134R1. In addition, Turbomeca have developed a new RH rear half-wall P/N 0319 99 008 0 which prevents chafing between RH rear half-wall and P3 air pipe.	
	For the reasons described above, this AD supersedes EASA AD 2008-0134R1 and requires, except for engines on which a RH rear half-wall P/N 0319 99 008 0 is installed (modification TF 80), repetitive inspections of the clearance between the P3 air pipe and RH rear half-wall and, in case of discrepancy, accomplishment of the applicable corrective actions.	
	This AD is revised to address the engines that were already inspected and corrected in accordance with the instructions of Turbomeca Mandatory Service Bulletin (MSB) N°319 75 4810 issue A.	
Effective Date:	Revision 1: 06 February 2012 Original issue: 06 October 2011	
Required Action(s) and Compliance Time(s):	 Required as indicated unless accomplished previously: (1) For engines that are already installed on a helicopter and on which a RH rear half-wall P/N 0319 99 82 40 is installed, within 100 Engine Hours (EH) after the effective date of this AD, inspect the P3 air pipe and the RH rear half-wall in accordance with the instructions of MSB N°319 75 4810 issue B. 	
	For engines that are already installed on a helicopter and on which a RH rear half-wall P/N 0319 99 82 40 is being installed, upon installation of this part, inspect the P3 air pipe and the RH rear half-wall in accordance with the instructions of Turbomeca Mandatory Service Bulletin (MSB) N°319 75 4810 issue B.	
	(2) If, during the inspection required by paragraph (1) of this AD, both the P3 air pipe and the RH rear half-wall are found undamaged, and the distance between the P3 air pipe and the RH rear half-wall is less than 0.5 mm, repeat the inspection as required by paragraph (1) of this AD at intervals not to exceed 100 EH.	
	(3) If, during an inspection as required by paragraphs (1) or (2) of this AD, the RH rear half-wall is found damaged, or the P3 air pipe interferes with RH rear half-wall, before next flight, install a RH rear half-wall P/N 0319 99 008 0 in accordance with the instructions of Turbomeca MSB N°319 75 4810 issue B.	
	(4) If, during an inspection as required by paragraphs (1) or (2) of this AD, P3 air pipe is found damaged, before next flight, install a serviceable P3 air pipe and verify that the distance between P3 air pipe and RH rear half-wall is equal to or greater than 0.5 mm, in accordance with the instructions of Turbomeca MSB N°319 75 4810 is sue B. Installation on an engine of a serviceable P3 air pipe and verification that the distance between P3 air pipe and verification 99 82 40 is equal to or greater than 0.5 mm, constitutes terminating action for the repetitive inspections required by paragraph (2) of this	

	AD for that engine.	
	(5) Modification of an engine by installation of a RH rear half-wall P/N 0319 99 008 0 constitutes terminating action for the repetitive inspections required by paragraph (2) of this AD for that engine.	
	(6) After modification of an engine as specified in paragraph (5) of this AD, do not install a RH rear half-wall P/N 0319 99 82 40 on that engine.	
	(7) From the effective date of this AD, do not install a RH rear half-wall P/N 0319 99 82 40 on an engine or an engine with a RH rear half-wall P/N 0319 99 82 40 on a helicopter, unless in compliance with the requirements of this AD.	
	(8) Engines already installed on a helicopter, that have been inspected and, depending on findings, corrected, before 06 October 2011 [the effective date of the original issue of this AD], in accordance with the instructions of Turbomeca MSB N°319 75 4810 at iss ue A, are compliant with the requirements of paragraphs (1), (2), (3) and (4) of this AD, provided that, after the inspection, the engine has not been removed from that helicopter.	
Ref. Publications:	TURBOMECA Mandatory Service Bulletin N°. 319 75 4810 issue B, dated 25 January 2011.	
	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. 	
	 The original issue of this AD was posted on 22 July 2011 as PAD 11-076 for consultation until 19 August 2011. The Comment Response Document can be found at <u>http://ad.easa.europa.eu/</u>. 	
	 Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: <u>ADs@easa.europa.eu</u>. 	
	 For any questions concerning the technical content of the requirements in this AD, please contact: Turboméca, S.A., ARRIUS Customer Support, 40220 TARNOS, FRANCE. Fax: +33 5 59 74 45 15; or contact your nearest technical 	

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