EASA AD No.: 2010-0118

EASA

AIRWORTHINESS DIRECTIVE

AD No.: 2010-0118

Date: 18 June 2010

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 EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Accex I, Pa. M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, in person may operate an aircraft to which an AD applies, except in accordance with the requirements of the AD unless of erwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the Silve of Regiony [EC 216/2008, Article 14(4) exemption].

216/2008, Article 14(4) exem	ptionj.	
Type Approval H	older's Name :	Type/Model designation(s)
Turboméca		ARRIEL series rbos aft engines
TCDS Number :	EASA.E.073	
Foreign AD :	Not applicable	
Supersedure :	None	
ATA 72		M03 (Gas Generator) – Second Stage Guide Vane – Inspection/Replacement
Manufacturer(s):	Tu, méca S.A.	
Applicability:		nes, if modified by TU76 and not modified by paired second stage Nozzle Guide Vane.
	These engines are know \$350 series helicopters	n to be installed on, but not limited to Eurocopter s.
COLBON:	Vanes (NGVs) to be ins not conforming to the de were found drilled on the configuration correspon- post-TU148 standard A	ns in repair centre some 2 nd stage Nozzle Guide talled on Pre TU148 standard Arriel 1B were found efinition. The affected parts had been repaired and e rear flange instead of the front flange. This ds to 2 nd stage Turbine NGVs to be installed on rriel 1B engines. This non compliance may only be indard 2 nd stage Turbine NGVs (i.e. with flexible
	increase of temperature resulting in turbine dama	uld increase hot gas ingestion and generate an in the Gas Generator (GG) turbine rotor, potentially age and an uncommanded in-flight shutdown. On a this could ultimately lead to an emergency
	a daily check of the engi for checking applicability	s unsafe condition, this AD requires accomplishing ne. Furthermore, it requires contacting Turboméca and, if necessary, to inspect the 2 nd stage Turbine e parts are found, it requires replacement with

EASA Form 111 Page 1/3

EASA AD No.: 2010-0118

	serviceable ones.		
Effective Date:	02 July 2010		
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously:		
	(1) Starting from the effective date of this AD, perform a daily check (after last flight of the day) of the free rotation of the gas generator, the autorotation time and the absence of noise in accordance with Par. 2.B(1)(a)3 of MSB A292 72 0829 version A and applicable Arriel 1B Maintenance Manual tasks 71-02-09-760-801 and 05-20-01-200-801.		
	If during any of these daily checks, any finding is identified in accordance with Par. 2.B(1)(a)3 of MSB A292 72 0829 verified. A, no further engine operation is allowed.		
	(2) Within 7 days after the effective date of this AD, send to Turbomée a copy of module M03 log card and identification steet of the engine in accordance with the Mandatory Service Bulletin (MSB) A29, 77 J829 version A.		
	(3) If Turboméca confirms that MSB A292 72 0829 presion / Lis not applicable to the engine, no further a non is a quite V/ compliance with the requirements of this AD.		
	(4) If Turboméca confirms that MSS A292 32 0829 version A is applicable to the engine, within the compliance time in cated in table 1 of this AD, inspect the 2 nd stage Turkete NG3s.		
		ble 1	
	GG 1 st and/or 2 nd 2 age Turbine Accumulated GG 1 ch on th Effective Fire of this AD:	Compliance time: (1 st or 2 nd Stage Turbine Accumulated GG cycles)	
	Less than 1,200 (1) tand	Upon accumulating 1500 total GG cycles	
	Equator muse man 1 200, and less man 1800 K1 st or 2 nd Stage Turbine)	- Upon accumulating 300 GG cycles after the effective date of this AD, or - within 6 months after the effective date of this AD, whichever occurs first	
	ess than 2 400 (1 st or 2 nd Stage Turbine)	- Upon accumulating 200 GG cycles after the effective date of this AD, or - within 4 months after the effective date of this AD, whichever occurs first	
	Equal or more than 2 400, and less than 3 000 (1 st or 2 nd Stage Turbine)	 Upon accumulating 100 GG cycles after the effective date of this AD, or Upon accumulating 3000 GG cycles on 1st or 2nd Stage Turbine, or within 2 months after the effective date of this AD, whichever occurs first 	
	More than 3 000 (1 st or 2 nd Stage Turbine)	Before next flight	
	Note 1: The life limit of the "monobloc" Gas Generator 2 nd stage turbine wheels affected by this AD is 3 000 cycles.		
	(5) If during any inspection required by paragraph (4) of this AD, the 2 nd stage Turbine NGVs are found to be not compliant, before next flight, replace the affected Module M03 with a serviceable one, in accordance with Paragraph 2.B of MSB A292 72 0829 version A.		
	(6) After the effective date of this AD, do not install a post-TU76 and pre- TU148 M03 (Gas Generator) unless in compliance with the		

EASA Form 111 Page 2/3

EASA AD No.: 2010-0118

	requirements of this AD.	
	(7) Replacement of Module M03 with a serviceable one constitutes a terminating action for the requirements of this AD.	
Ref. Publications:	Turboméca Mandatory Service Bulletin (MSB) A292 72 0829 version A, dated 09 June 2010;	
	Arriel 1B Maintenance Manual X 292 65 452 1 / X 292 65 452 2 (French Version / English Version)	
	The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.	
Remarks :	If requested and appropriately substantiated, EASA cat appropriate substantiated,	
	The required actions and the risk allowance have graded the issuance of a Final AD with Request for Completes, position the public consultation process after publication.	
	3. Enquiries regarding this AD should be referred to the Aircorthiness Directives, Safety Management & Records Station, Certification Directorate, EASA. E-mail: ADs@casa.eu	
	For any question concerning the chnical collent of the requirements in this AD, please contact:	
	Turboméca, S.A., ARRIF, 1 Customer 1, port, 40220 TARNOS, FRANCE. Fax: +33 5 5, 74 45 75 or contact your nearest technical representative at www.turk_deca-sy_port.com	

EASA Form 111 Page 3/3