


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE	
	PAD No.: 12-110 Date: 20 August 2012 Note: This Proposed Airworthiness Directive (PAD) 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.	
	In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below. All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.	
Design Approval Holder's Name: TURBOMÉCA		Type/Model designation(s): ARRIEL 1 engines
TCDS Number: EASA.E.073		
Foreign AD: Not applicable		
Supersedure: None		
ATA 72	Engine – Airworthiness Limitation Section – Cycle Counting Aid System – Modification/Amendment	
Manufacturer(s):	Turboméca S.A.	
Applicability:	ARRIEL 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K, 1K1, 1S and 1S1 turbo-shaft engines, all serial numbers. These engines are known to be installed on, but not limited to, Eurocopter (formerly Eurocopter France, Aerospatiale) AS 350 B, BA, BB, B1 and B2, and AS 365 N, Eurocopter Deutschland (formerly Messerschmidt-Bölkow-Blohm) MBB-BK117-C1 and -C2, AgustaWestland (formerly Agusta) A 109 K2, and Sikorsky S-76A helicopters.	
Reason:	Following detailed analysis and review of in-service feedback performed by Turboméca on the Arriel 1 engines, the chapter 05-10 Airworthiness Limitation Section (ALS) of Arriel 1 Maintenance Manuals has been updated in order to clarify the definition and update the requirements relative to the cycle counting aid system (modification introduced in production by Turboméca modification TU207 or TU243 and in-service, respectively, by Turboméca Service Bulletin (SB) 292800190 or SB 292800168), add associated maintenance tasks, and modify the Power Turbine (PT) partial cycle counting method. For the reasons described above, this AD requires to implement the set of modifications applied to the chapter 05-10 ALS of the Arriel 1 Maintenance Manuals.	
Effective Date:	[TBD: 14 days after final AD issue date]	

<p>Required Action(s) and Compliance Time(s):</p>	<p>Required as indicated, unless accomplished previously:</p> <p>(1) From the effective date of this AD, record the updated definition of the cycle counting aid system and apply the updated PT partial cycle counting method and, within the intervals specified in chapter 05-10 ALS of the ARRIEL 1 Maintenance Manual, as applicable to engine Model, as listed in Appendix 1 of this AD, accomplish the following tasks:</p> <p>New mandatory tasks associated with the cycle counting aid system (requirements applicable to engines modified in production with Turboméca modification TU207 or TU243 or in service, respectively, with Turboméca SB 292800190 or SB 292800168), and defined as follows:</p> <ul style="list-style-type: none"> - "Cycle Counting" coherence/consistency check - Functional check for the "Cycle Counting" function of the Tachometer Unit. <p>(2) Compliance with the requirements of paragraphs (1) of this AD can be demonstrated by:</p> <p>(2.1) Revising as follows the approved Aircraft Maintenance Programme (AMP) and standard practices on the basis of which the operator or the owner ensures the continuing airworthiness of each operated helicopter:</p> <p>Incorporate the updates described in paragraph (1) of this AD and defined in the chapter 05-10 of the applicable Arriel 1 Maintenance Manual.</p> <p>and</p> <p>(2.2) Complying with the approved AMP described in paragraph (2.1) of this AD.</p>
<p>Ref. Publications:</p>	<p>Turboméca ARRIEL 1 Maintenance Manuals, as listed in Appendix 1 of this AD.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
<p>Remarks:</p>	<ol style="list-style-type: none"> 1. This Proposed AD will be closed for consultation on 17 September 2012. 2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact: Turboméca, S.A., ARRIEL 1 Customer Support, 40220 Tarnos, France, Fax: +33 5 59 74 45 15, or contact your usual or nearest Turboméca technical representative at www.turbomeca-support.com.

Appendix 1

Maintenance Manuals according to Engine Variant, with initial issue/version incorporating the additional requirement of this AD in the ALS:

Engine Variant	Maintenance Manual	
	French Version	English Version
ARRIEL 1A1	X 292 B3 452 1 Issue 14	X 292 B3 452 2 Issue 14
ARRIEL 1A2	X 292 A9 452 1 Issue 15	X 292 A9 452 2 Issue 15
ARRIEL 1B	X 292 65 452 1 Issue 14	X 292 65 452 2 Issue 14
ARRIEL 1C	X 292 B0 452 1 Issue 15	X 292 B0 452 2 Issue 15
ARRIEL 1C1	X 292 C3 452 1 Issue 15	X 292 C3 452 2 Issue 15
ARRIEL 1C2	X 292 G1 452 1 Issue 15	X 292 G1 452 2 Issue 15
ARRIEL 1D	X 292 E5 452 1 Issue 15	X 292 E5 452 2 Issue 15
ARRIEL 1D1	X 292 G2 452 1 Issue 15	X 292 G2 452 2 Issue 15
ARRIEL 1E2	X 292 M3 452 1 Issue 15	X 292 M3 452 2 Issue 15
ARRIEL 1K	X 292 D8 452 1 Issue 15	X 292 D8 452 2 Issue 15
ARRIEL 1K1	X 292 H3 452 1 Issue 15	X 292 H3 452 2 Issue 15
ARRIEL 1S	X 292 F9 452 1 Issue 15	X 292 F9 452 2 Issue 15
ARRIEL 1S1	X 292 H4 452 1 Issue 15	X 292 H4 452 2 Issue 15