	AIRWORTHINESS DIRECTIVE No F-2005-122	Distribution: A	Issue date: July 20, 2005	Page : 1/2
Direction générale de l'aviation civile France GSAC publication	This Airworthiness Directive is published by the DGAC on behalf of EASA, Airworthiness Authority of the State of Design for the affected product, part or appliance.		<i>Translation of « Consigne de Navigabilité » of same number. In case of difficulty, reference should be made to the French issue.</i>	
	<p align="center">No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive, unless otherwise agreed with the Authority of the State of Registry.</p>			
Corresponding foreign Airworthiness Directive(s): Not applicable		Airworthiness Directive(s) replaced: None		
Person in charge of airworthiness: TURBOMECA		Type(s): ARRIUS 2F turboshaft engines		
Type certificate(s) No. M22 TCDS No M22				
ATA chapter: 79	Subject: Oil - Replacement of check-valve piston o-ring			

1. EFFECTIVITY:

This Airworthiness Directive (AD) applies to TURBOMECA turboshaft engine ARRIUS 2F which equip EC 120B helicopters.

2. REASONS:

Investigations of incidents which occurred on ARRIUS 2 turboshaft engines have revealed the interruption of engine lubrication further to a passage blockage within the lubrication unit check valve.

This blockage comes from the excessive swelling of the check valve piston o-ring. The level of swelling of the o-ring depends from the class of the oil used (STD or HTS) and the engine operating time.


On ARRIUS 2F, an interruption of the engine lubrication may lead to an uncommanded in-flight shutdown.

3. MANDATORY ACTIONS AND COMPLIANCE TIMES:

Following actions are made mandatory, unless already done, from the effective date of this AD:

3.1. Implement paragraph 2 of Mandatory Alert Service Bulletin No A319 79 4802 within the next 50 operating hours if the number of operating hours is greater than:

- 300 hours for engines operating with HTS-class oil and engines for which the history of the oils used is not available or engines which used to operate with HTS-class oil and which no longer do so;
- 450 hours for engines operating with STD class-oil since their introduction into service.

	AIRWORTHINESS DIRECTIVE No F-2005-122	Distribution: A	Issue date: July 20, 2005	Page: 2/2
---	--	---------------------------	-------------------------------------	---------------------

3.2. Repeat operation of § 3.1:

- every 300 hours for engines operating with HTS-class oil and engines for which the history of the oils used is not available or engines which used to operate with HTS-class oil and which no longer do so;
- every 500 hours for engines operating with STD class-oil since their introduction into service.

4. REFERENCE PUBLICATION:

Mandatory Alert Service Bulletin No A319 79 4802 original issue or approved subsequent issue.

5. EFFECTIVE DATE:

July 30, 2005.

6. REMARK:

For any questions concerning the technical content of the requirements in this AD, please contact:

ARRIUS 2 Customer Support
TURBOMECA
40220 TARNOS - FRANCE
Fax: +33 5 59 74 45 15.

7. APPROVAL:

This AD is approved under EASA reference No 2005-6069 dated July 12, 2005.

SUPERSEDED