

	AIRWORTHINESS DIRECTIVE No F-2002-331-071 R2	Distribution: A	Issue date: November 24, 2004	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>	
	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.			
Corresponding foreign Airworthiness Directive(s): Not applicable		Airworthiness Directive(s) replaced: 2002-331-071 R1		
Person in charge of airworthiness: EUROCOPTER		Type(s): AS 355 helicopters		
Type certificate(s) No. 168 TCDS No 168				
ATA chapter: 05, 63	Subject: Rotor drive(s) - Main gearbox - Lubrication pump			

1. **EFFECTIVITY:**

AS 355 helicopters, versions E, F, F1, F2 and N equipped with main gearbox (MGB) lubrication pumps PN 355A 32-0700-01:

- with serial numbers (S/N) \geq 5731,

and,

- with serial numbers (S/N) $<$ 5731, if they have been overhauled or repaired after June 1, 1995.

2. **REASONS:**

This Airworthiness Directive (AD) is issued following four reports of MGB lubrication pump deterioration. In time, the insufficiently lubricated power transmission assembly deteriorates until it causes the loss of the drive train for one or even both engines (deterioration of the combiner gearbox gears).

Revision 1 of this AD took into account Revision 1 of the Alert Telex (AT) referenced below, with no modification to the technical content.

Revision 2 of this AD covers the conversion of Revision 1 of EUROCOPTER AS 355 Alert Telex (AT) No. 05.00.40 into an Alert Service Bulletin bearing the same reference number, with no modification to the technical content, but limiting the effectivity by incorporating additional details in § 1 above.

3. **MANDATORY ACTIONS AND COMPLIANCE TIMES:**

The following measures are rendered mandatory from the effective date of this AD at original issue:



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3.1. At each check after the last flight of the day (ALF) without exceeding 10 hours between two checks, inspect the MGB magnetic plug and oil sight in compliance with the instructions specified in § 2.B.1. of EUROCOPTER AS 355 Alert Service Bulletin (ASB) No. 05.00.40 referenced below.

Depending on the result of the check, comply with the instructions specified in § 2.B.2 of the ASB referenced below.

3.2. Before installing a lubrication pump, installed on an MGB and specified in paragraph 1, on an aircraft, or before installing a separate lubrication pump specified in paragraph 1, on an aircraft:

3.2.1. If the pump has logged flying hours since new, overhaul or repair:

- comply with § 2.B.2. of the referenced ASB, and
- comply with § 2.B.3. of the referenced ASB according to the SN of the lubrication pump (refer to the Equipment Log Card (FME) of the lubrication pump).

3.2.2. If the pump is new or newly overhauled or newly repaired:

- leave as is,
- or,
- comply with § 2.B.3. of the referenced ASB according to the SN of the lubrication pump (refer to the Equipment Log Card (FME) of the lubrication pump).

4. REFERENCE PUBLICATION:

EUROCOPTER AS 355 Alert Service Bulletin No. 05.00.40.
(Any subsequent approved revision to this ASB is acceptable).

5. EFFECTIVE DATES:

Original issue : As from receipt of the telegraphic AD dated June 21, 2002.
Revision 1 : February 1, 2003.
Revision 2 : December 04, 2004.

6. REMARK:

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

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7. APPROVAL:

This AD Revision is approved under EASA reference No 2004-11115 dated November 17, 2004.