EASA

AIRWORTHINESS DIRECTIVE

AD No.: 2011-0091R2

Date: 08 November 2012

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 EU 748/2012, Part 21.A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].

Type Approval Holder's Name :		Type/Model designation(s) :
EUROCOPTER DEUTSCHLAND GmbH		BO105 helicopters
TCDS Number :	EASA.R.011	
Foreign AD :	Not applicable	
Revision:	This AD revises EASA AD 2011-0091R1 dated 01 August 2012. The original EASA AD 2011-0091 dated 18 May 2011 superseded EASA AD 2010-0223 dated 26 October 2010.	
ATA 63	Main Rotor Drive - N	Agin Gearbox – Inspection
Manufacturer(s):	Eurocopter Deutschland GmbH (ECD), Eurocopter Hubschrauber GmbH, Messerschmitt-Bölkow-Blohm GmbH	
Applicability:	BO105 A, BO105 C, BO105 D and BO105 S helicopters, all variants, all serial numbers.	
Reason:		curred with a BO105 helicopter and the initial findings was linked with a deterioration of the Main Gearbox inated oil supply.
	This condition, if not det consequent loss of cont	ected and corrected, could lead to MGB failure and rol of the helicopter.
	published these instruct EASA issued AD 2010- magnetic plug or electric and, depending on findi implementation of new o	res to address and correct this unsafe condition and ions in Alert Service Bulletin (ASB) BO105-10-125. D223 to require a one-time inspection of the MGB c chip detector (as applicable) and of the MGB oil filter ngs, corrective action(s). That AD also required the corrective action criteria for later (scheduled and bections, to be applied each time there is a particle
	magnetic plug and oil fil	ed, it was determined that repetitive inspections of the ter at reduced intervals are necessary to ensure that cted and corrected, and ASB BO105-10-125 has been
	Consequently, EASA is	sued AD 2011-0091, retaining the initial requirements

of AD 2010-0223, which was superseded, and requiring the implementation of repetitive inspections of the magnetic plug and oil filter and corrective actions, depending on findings.
Thereafter, EASA issued AD 2011-0091R1 to draw attention to Revision 2 of Eurocopter Deutschland ASB BO105-10-125, which provides more detailed information on the follow-up measures in case deposits are found on the magnetic plug or the electric chip detector.
Since that AD was issued, it was brought to the attention of EASA that the customary 10% flexibility was not included in the inspection interval as specified in paragraph (4) of the AD.
For the reason described above, this AD is revised to amend paragraph (4).
Revision 2: 08 November 2012
Revision 1: 08 August 2012
Original issue: 01 June 2011
Required as indicated, unless accomplished previously:
Re-statement of requirements of AD 2010-0223:
(1) Within the next 100 flight hours (FH) or 3 months, or at the next scheduled MGB inspection of the magnetic plug or electric chip detector, as applicable, whichever occurs first after 09 November 2010 [the effective date of AD 2010-0223], inspect the MGB magnetic plug or electric chip detector, as applicable, and the MGB oil filter for contamination in accordance with the instructions of ECD Alert Service Bulletin (ASB) BO105-10-125 and the BO105 Maintenance Manual (MM).
(2) Thereafter, at each scheduled or unscheduled inspection of the MGB magnetic plug or electric chip detector, as applicable, apply the instructions of Table 11-2, as provided on pages 4 and 5 of ECD ASB BO105-10-125.
New requirements of this AD:
(3) Within 10 FH after the latest check as required by EASA AD 2010-0223, now paragraphs (1) or (2) of this AD, as applicable, and thereafter at intervals not to exceed 10 FH, inspect the MGB magnetic plugs for chips, in accordance with the instructions of ECD ASB BO105-10-125 Revision 1 (or later revision) and the BO105 MM.
 (4) Within 100 FH after the latest check as required by EASA AD 2010-0223, now paragraph (1) or (2) of this AD, as applicable, and thereafter at intervals not to exceed 100 FH (+ 10 FH), inspect MANN oil filter Part Number (P/N) 6140063321 for particles in accordance with the instructions of ECD ASB BO105-10-125 R1 (or later revision) and the BO105 MM.
(5) Accomplishment of the initial inspections on a helicopter, as required by paragraphs (3) and (4) of this AD respectively, constitutes terminating action for the repetitive inspections required by paragraph (2) of this AD.
(6) If, during any inspection as required by paragraphs (1), (2), (3) or (4) of this AD, contamination is found, accomplish the applicable corrective actions in accordance with the instructions of, and within the compliance time as specified in, ECD ASB BO105-10-125 R1 (or later revision) and the BO105 MM.
(7) Compliance with the requirements of paragraphs (3) and (4) of this AD can be demonstrated by:
(7.1) Revising as follows the approved aircraft maintenance programme on the basis of which the Operator or the Owner ensures the

	continuing airworthiness of each operated helicopter:	
	Incorporate the repetitive inspections of paragraphs (3) and (4) of this AD, as well as the revised Table 11-2 (pages 4 and 5 of ASB BO105-10-125 R1) and picture 11-14 (page 6 of ASB BO105-10-125 R1) instructions.	
	and	
	(7.2) Complying with the approved aircraft maintenance programme described in paragraph (7.1) of this AD.	
Ref. Publications:	Eurocopter Deutschland ASB BO105-10-125 dated 02 September 2010, or Revision 1 dated 04 April 2011, or Revision 2 dated 23 May 2012.	
	The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.	
	BO105 Maintenance Manual, Chapter 11, Sections 11-12 through 11-19, including revised Table 11-2 (pages 4 and 5 of ASB BO105-10-125 R1) and picture 11-14 (page 6 of ASB BO105-10-125 R1).	
Remarks :	 If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 	
	 Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication. 	
	 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 question concerning the technical content of the requirements in this AD, please contact: Eurocopter Deutschland GmbH, Industriestrasse 4, 86607 Donauwörth, Federal Republic of Germany. Telephone: + 49 (0) 151 14 22 89 76, Facsimile: + 49 (0) 906 71-4111. 	

