



Emergency Airworthiness Directive

AD No.: 2016-0264-E

Issued: 22 December 2016

Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, 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 Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 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 [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

AIRBUS HELICOPTERS

Type/Model designation(s):

SA 330 J helicopters

Effective Date: 28 December 2016

TCDS Number(s): EASA.R.002

Foreign AD: Not applicable

Supersedure: None

ATA 29 – Hydraulic Power – Hydraulic Pumps – Check

Manufacturer(s):

Airbus Helicopters (AH), (formerly Eurocopter, Eurocopter France, Aerospatiale)

Applicability:

SA 330 J helicopters, all manufacturer serial numbers, equipped with a hydraulic pump, Part Number (P/N) P/N FR65WEO2005-175A, identified by serial number (s/n) listed in Appendix 1 of this AD.

Reason:

Occurrences of broken screws, attaching the cover of a hydraulic pump, Part Number (P/N) FR65WEO2005-175A, were reported. Subsequent investigation identified a batch of screws, delivered between 1 July 2015 and 1 November 2016, which were affected by an intrinsic embrittlement and reduced mechanical properties. Investigation also determined that these affected screws were installed only in a batch of hydraulic pumps, P/N FR65WEO2005-175A, identified by s/n listed in Appendix 1 of this AD.

This condition, if not detected and corrected, could lead to failure of affected bolts, leakage of the hydraulic pump and loss of the affected hydraulic circuit, resulting in case of loss of both hydraulic circuits, in loss of control of the helicopter.



To address this potentially unsafe condition, AH issued Emergency Alert Service Bulletin (ASB) SA330 29.12, which makes reference to ASB NM/INGE/16-140, issued by Nexter, the manufacturer of hydraulic pumps, P/N FR65WEO2005-175A.

For the reasons described above, this AD requires a one-time check of the s/n of installed hydraulic pumps, P/N FR65WEO2005-175A, and depending on the result, replacement. This AD also prohibits installation of hydraulic pumps P/N FR65WEO2005-175A identified by serial number (s/n) listed in Appendix 1 of this AD equipped with the defective screws.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Note 1: For the purpose of this AD an “affected part” is a hydraulic pump P/N FR65WEO2005-175A with a s/n listed in Appendix 1 of this AD.

Note 2: For the purpose of this AD a “serviceable part” is:

- a hydraulic pump having a P/N different than FR65WEO2005-175A, or
- a hydraulic pump having a different s/n as the one listed in Appendix 1 of this AD, or
- a hydraulic pump with s/n listed in Appendix 1 of this AD released to service after screw replacement in conformity and marked with “V” in accordance with the instructions of Nexter ASB NM/INGE/16-140.

Inspection:

(1) Within 15 flight hours (FH) after the effective date of this AD check the right hand (RH) and left hand (LH) hydraulic pumps to determine whether they are affected parts (see Note 1 of this AD) in accordance with the instructions of AH Emergency ASB SA330 29.12.

Corrective Action:

(2) If, during the check, as required by paragraph (1) of this AD, it is determined that both hydraulic pumps (LH and RH) are affected parts, accomplish the actions as defined in paragraphs (2.1) and (2.2) of this AD in accordance with the instructions of AH Emergency ASB SA330 29.12:

(2.1) Before next flight, replace the RH hydraulic pump with a serviceable part.

(2.2) Within 110 FH or 6 months after the effective date of this AD, whichever occurs first, replace the LH hydraulic pump with a serviceable part.

(3) If, during the check as required by paragraph (1) of this AD, it is determined that only one of the hydraulic pumps is an affected part, within 110 FH or 6 months after the effective date of this AD, replace the affected part with a serviceable part in accordance with the instructions of AH Emergency ASB SA330 29.12.

Part Installation:

(4) From the effective date of this AD, installation of a hydraulic pump on a helicopter is allowed, provided the hydraulic pump is a serviceable part (see Note 2).



Ref. Publications:

AH Emergency ASB SA330 29.12 original issue dated 22 December 2016.

The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. For any question concerning the technical content of the requirements in this AD, please contact:
Airbus Helicopters (EBSESB) – Aéroport de Marseille Provence 13725 Marignane Cedex, France
Telephone +33 (4) 42 85 97 97, Fax +33 (4) 42 85 99 66
E-mail: Directive.technical-support@airbus.com.



Appendix 1 – Affected hydraulic pumps

Hydraulic pumps P/N FR65WEO2005-175A having a s/n 4108, 4141, 4177, 4227, 4241, 4284, 4377, 4422, 4570, 4573, 4574, 4641, 4649, 4668, 4766, 4802, 4821, 4831, 4837, 4888, 4896, 4946, 4985, 5023, 5071, 5304, 5366, 5376, 5409, 5442, 5486, 5599, 5630, 94075/01, 94048/01 and not marked with a letter “V” on the identification label of the hydraulic pump.

