

EASA	EMERGENCY AIRWORTHINESS DIRECTIVE
	EAD No.: 2010-0043R1-E Date: 26 March 2010 Note: This Emergency Airworthiness Directive (EAD) 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 EAD is issued in accordance with EC 1702/2003, Part 21A.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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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 : EUROCOPTER	Type/Model designation(s) : AS 332 helicopters
TCDS Number : EASA.R.002	
Foreign AD : Not Applicable	
Revision : This AD revises and replaces EASA AD 2010-0043-E dated 12 March 2010.	
ATA 29	Hydraulic Power - Hydraulic Pumps - Identification / Replacement
Manufacturer(s):	EUROCOPTER (formerly EUROCOPTER France)
Applicability:	EUROCOPTER AS 332 C, AS 332 C1, AS 332 L, AS 332 L1 and AS 332 L2 helicopters, all serial numbers.
Reason:	EUROCOPTER has been informed of loss of the Right Hand (RH) hydraulic power system on an AS332 L2 helicopter. The pilot saw the hydraulic system "Low level" warning light comes on during the approach phase. Investigation has revealed a hydraulic fluid leak from the hydraulic pump casing and has shown that the liner of the compensating piston was incorrectly positioned. This provoked the deterioration of pump seals and was due to a non-compliant repair process. This none-compliant repair process was used by the following repair stations: HELIKOPTER SERVICE, ASTEC HELICOPTER SERVICE and HELI-ONE. If this condition occurs on both pumps of a helicopter, it could result in loss of the RH and Left Hand (LH) hydraulic power systems and consequently may lead to the loss of helicopter controllability. For the reasons stated above, this Emergency Airworthiness Directive (EAD) requires the identification of the pumps that are currently installed on the helicopters, and the accomplishment of corrective actions (replacement) as necessary.

	This EAD is revised to correct which pumps can be installed in replacement of the above mentioned deteriorated pumps
Effective Date:	Revision 1: 28 March 2010 Original: 14 March 2010
Required action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 15 flight hours (FH) after 14 March 2010 [the effective date of the original issue of this EAD], identify whether the helicopter is equipped with two hydraulic pumps that correspond to the following MESSIER-BUGATTI pumps Part Number.(P/N) C24160045, C24160045-1, C24160045-100, C24160046, C24160046-1 and C24160046-100 which were overhauled or repaired by HELIKOPTER SERVICE or ASTEC HELICOPTER SERVICE or HELI-ONE before 01 February 2010 inclusive. (2) If both hydraulic pumps identified as per paragraph (1) of this EAD are installed, before next flight, replace at least one of them in accordance with paragraph 2.B. of EUROCOPTER AS 332 Alert Service Bulletin (ASB) 01.00.78 with either a serviceable pump or a pump reconditioned in accordance with paragraph 3.E. of EUROCOPTER AS 332 ASB 01.00.78. (3) After 14 March 2010 [the effective date of the original issue of this EAD], do not install on a helicopter any of the following MESSIER-BUGATTI hydraulic pumps: P/N C24160045, C24160045-1, C24160045-100, C24160046, C24160046-1 and C24160046-100 which were overhauled or repaired by HELIKOPTER SERVICE or ASTEC HELICOPTER SERVICE or HELI-ONE before 01 February 2010 inclusive, unless the pump has been reconditioned in accordance with paragraph 3.E. of EUROCOPTER AS 332 ASB 01.00.78. (4) After 10 months from 14 March 2010 [the effective date of the original issue of this EAD], flying with any hydraulic pump as identified in paragraph (1) of this EAD is not permitted.
Ref. Publications:	EUROCOPTER AS332 Alert Service Bulletin No. 01.00.78 revision 0 dated 11 March 2010. The use of later approved revisions of this document is acceptable for compliance with the requirements of this EAD.
Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this EAD. 2. The safety assessment has requested not to implement the full consultation process and an immediate publication and notification. 3. Enquiries regarding this EAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail: ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this EAD, please contact: EUROCOPTER (STDI) - Aéroport de Marseille Provence 13725 Marignane Cedex, France. Telephone +33 (0) 4 42 85 97 97, Fax +33 (0) 4 42 85 99 66 E-mail: Directive.technical-support@eurocopter.com.