



No.	CF-2009-04	1/1
Issue Date	22 January 2009	

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 593**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2009-04

Subject: Hydraulic Pump – Driveshaft Assembly

Effective: 4 March 2009

Applicability: Bell Helicopter Textron Canada (BHTC) Model 427 helicopters serial numbers 56001 through 56046 and 58001 and 58002. This directive does not affect helicopters equipped with input shaft part number (P/N) 407-340-107-101 and adapter P/N 407-340-108-101, installed in accordance with Technical Bulletin (TB) 427-05-19 dated 7 January 2005.

Compliance: As indicated unless already accomplished:

1. Effective immediately for all driveshaft assemblies in spare stock.
2. For all driveshaft assemblies installed on aircraft, at the next driveshaft lubrication, no later than 50 hours air time or 30 calendar days, whichever come first after the effective date of this directive.

Background: It has been determined that some hydraulic pump driveshaft assemblies P/N 406-040-072-105 may have been delivered with a missing internal plug or fastening rivet. This condition, if not corrected, could result in a loss of hydraulic pressure leading to difficulty controlling the helicopter.

This directive mandates a one-time verification of the presence of the plug in the centre of the driveshaft and the rivet that holds the plug in place.

Corrective Actions:

1. Verify the installation of the parts in accordance with BHTC Alert Service Bulletin (ASB) 427-08-22 dated 26 June 2008, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
2. If any part is missing, install an airworthy input shaft and adapter.
3. If the parts are correctly installed, make a logbook entry to that effect or attach the serviceable tag to the parts in inventory as per item 6.c. of ASB 427-08-22 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For Minister of Transport, Infrastructure and Communities

Derek Ferguson
Acting Chief, Continuing Airworthiness

Contact: Mr. Bogdan Gajewski, Continuing Airworthiness, Ottawa, telephone 613-952-4450, facsimile 613-996-9178 or e-mail bogdan.gajewski@tc.gc.ca or any Transport Canada Centre.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at **Place de Ville, Ottawa, Ontario K1A 0N8**, or **1-800-305-2059**, or www.tc.gc.ca/civilaviation/communications/centre/address.asp