



No.	CF-2002-14	1/1
Issue Date	13 February 2002	

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-2002-14

Subject: Bombardier CL-215T/CL-415 Propeller Control Unit Oil Pump

Effective: 29 March 2002

Applicability: Bombardier Inc. CL-215-6B11 aircraft serial numbers 1056 to 1125, and CL-215-6B11 (415) aircraft serial numbers 2001 to 2053, not incorporating propeller control unit (PCU) backup pressure relief valve in accordance with Bombardier Service Bulletins 215-3108 or 215-4234.

Compliance: Within 12 months after the effective date of this directive, or at the next scheduled engine shop visit, whichever occurs first, unless already accomplished.

Background: There have been a few incidents of external oil leaks from the PCU oil pump due to a malfunction of the pressure regulating valve, on PW120 series engine powered aircraft. The resulting high internal oil pressure may cause a fracture of the pump body, loss of engine oil, or inability to maintain engine oil pressure and feather the propeller. This condition could result in reduced aircraft performance, presenting a potentially hazardous situation. Since the CL-215T/CL-415 aircraft used a similar powerplant installation, Bombardier has developed a backup pressure relief valve to limit the PCU oil circuit pressure if the PCU pump regulating valve malfunctions.

- Corrective Actions:**
1. For CL-215-6B11 aircraft serial numbers 1056 to 1125, install a backup pressure relief valve (Bombardier part number 215T60440-2) in accordance with Bombardier Service Bulletin (SB) 215-3108 dated 28 March 2001, or later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada, on both engines.
 2. For CL-215-6B11 (415) aircraft serial numbers 2001 to 2053, install a backup pressure relief valve (Bombardier part number 215T60440-2) in accordance with Bombardier SB 215-4234 dated 28 March 2001, or later revisions approved by the Chief, Continuing Airworthiness, Aircraft Certification, Transport Canada, on both engines.

Authorization: For Minister of Transport

for B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone (613) 952-4461, facsimile (613) 996-9178 or e-mail laur@tc.gc.ca or any Transport Canada Centre.