



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) to ADs.

Number:

CF-2015-27

Effective Date:

14 September 2015

ATA:

29

Type Certificate:

A-131

Subject:

Hydraulic Power – No. 3 Hydraulic System Reservoir Leak

Applicability:

Bombardier Inc.:

Model CL-600-2C10 aeroplanes, serial numbers 10002 through 10999;

Model CL-600-2D15 and CL-600-2D24 aeroplanes, serial numbers 15001 through 15990; and

Model CL-600-2E25 aeroplanes, serial numbers 19001 through 19990

equipped with No. 3 hydraulic system reservoir with part number (P/N) 960450-1.

Compliance:

As indicated below, unless already accomplished.

Background:

It was discovered that the high-pressure seal in the cylinder of the No. 3 hydraulic system reservoir with P/N 960450-1 could wear and leak. This can cause high hydraulic fluid temperature and/or prevent the system from reaching normal operating pressure. High hydraulic fluid temperature in combination with a temperature transducer malfunction could result in an unannounced overheat of the hydraulic system that could result in a potential ignition source within the fuel system.

This AD mandates the repetitive operational check of the hydraulic system No.3 fluid temperature indication as an interim mitigating action.

Corrective Actions:

Perform an operational check of the hydraulic system No. 3 fluid temperature indication in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 670BA-29-018, dated 25 June 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, using the following schedule:

- A. Initially, within 660 hours air time or 4 months, whichever occurs first, from the effective date of this AD, and
- B. Subsequently, at intervals not to exceed 660 hours air time or 4 months, whichever occurs first.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr

Chief, Continuing Airworthiness

Issued on 31 August 2015

Contact:

Helen Tsai, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.