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-2017-38

Effective Date:

3 January 2018

ATA:

32

Type Certificate:

A-131

Subject:

Landing Gear – Main Landing Gear – Piston Axle Corrosion

Applicability:

Bombardier Inc. aeroplanes:

Model CL-600-2C10, serial numbers 10002 and subsequent,
Models CL-600-2D15 and CL-600-2D24, serial numbers 15001 and subsequent,
Model CL-600-2E25, serial numbers 19001 and subsequent.

Compliance:

As indicated below, unless already accomplished.

Background:

There have been reports of damage to the protective coating and/or corrosion on the piston/axle of the Main Landing Gear (MLG). The damage to the protective coating was caused by friction between the inboard axle sleeve and the axle thrust face. If not corrected, this condition can cause the axle to separate from the piston/axle.

This AD mandates the incorporation of a new maintenance task in order to perform a visual inspection of the piston/axle of the MLG to prevent the axle separation from the piston/axle.

Corrective Actions:

Part I – Incorporation of the Maintenance Requirements Management (MRM) Task:

Within 30 days from the effective date of this AD, amend the Transport Canada approved maintenance schedule by incorporating task number 320100−228 - Detailed Inspection of the Piston/Axle, as introduced in MRM, CSP B-053, Part 1, Revision 16, dated 25 April 2016.

Part II – Inspection of the MLG Piston/Axle:

Perform the initial inspection of the MLG Piston/Axle in accordance with MRM Task 320100-228, with the following schedule:

Time since Piston/Axle entry in service	Compliance time to perform initial inspection task
More than 48 months since entry into service, as of the effective date of this AD	Within 12 months from the effective date of this AD. Thereafter, repeat task 320100-228 in intervals not to exceed 36 months.

More than 24 months but less than or equal to 48 months since entry into service, as of the effective date of this AD	Within 24 months from the effective date of this AD but before reaching 60 months total time in-service. Thereafter, repeat task 320100-228 in intervals not to exceed 36 months.
Less than or equal to 24 months since entry into service, as of the effective date of this AD	Within 36 months from the effective date of this AD but before reaching 48 months total time in-service. Thereafter, repeat task 320100-228 in intervals not to exceed 36 months.

Compliance with superseding Temporary Revision (TR) or later revisions of the above-mentioned Maintenance Requirements Manual task approved by Transport Canada, also meets the requirements of this AD.

For piston/axles that have been inspected in accordance with the following approved documents:

1. Bombardier Service Bulletin 670BA-32-048 Initial Issue, dated 29 August 2014, or Revision A, dated 5 September, 2014 or Revision B, dated 2 September, 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada; or
2. Restored per MRM Part 1, task number 320100-210; or
3. Repaired per one or more of the following REOs: REO 670-32-11-313 and/or; REO 670 32-11-361 and/or REO 698-32-11-008,

The entry into service date (Column 1 in the above table) can be calculated from the date of the latest inspection, restoration or repair.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 20 December 2017

Contact:

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.