



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) with ADs.

Number:

CF-2024-07

Effective Date:

6 March 2024

ATA:

29

Type Certificate:

A-177

Subject:

Hydraulic Power – Engine Driven Pump Hydraulic Hoses Fouling with Pylon

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 60001 through 60076, 60083, 60087 and 60089.

Compliance:

As indicated below, unless already accomplished.

Background:

There have been in-service reports of the hydraulic systems No. 1 (left-hand side, LHS) and No. 2 (right-hand side, RHS) engine driven pump pressure hydraulic hoses chafing against the pylon in the aft equipment bay. If left uncorrected, the fouling of the hydraulic systems engine driven pump hoses against the pylon may lead to hydraulic system leaks and failures, which can result in the loss of the affected hydraulic system with subsequent loss of user systems. In the case of a loss of both hydraulic systems No.1 and No. 2, the event would result in a large reduction in the aeroplane functional capabilities.

This AD mandates the inspection of the routing of hydraulic systems No. 1 (LHS) and No. 2 (RHS) engine driven pump pressure hoses over the length for any damage and for minimum clearance between the engine driven pump hydraulic pressure hose and case drain, suction pressure hose and surrounding pylon structure. If necessary, the hydraulic system driven pump hoses must be replaced in case of damage and/or adjusted to meet the minimum clearance requirements between the hoses and pylon.

Corrective Actions:

For the purpose of this AD, the following definition applies:

The applicable SB: Bombardier Service Bulletin (SB) 700-29-5502, SB 700-29-6011 or SB 700-29-6502, all at Basic Issue, dated November 29, 2023, as applicable, or later revisions of these SBs approved by the Chief, Continuing Airworthiness, Transport Canada.

- A. Within 500 hours air time or 18 months, whichever occurs first, from the effective date of this AD, perform the inspection of the routing of hydraulic systems No. 1 (LHS) and No. 2 (RHS) engine driven pump pressure hoses over the length for any damage and for minimum clearance between the engine driven pump hydraulic pressure hose and case drain, suction pressure hose and surrounding pylon structure, in accordance with Section 2.B. of the Accomplishment Instructions of the applicable SB.
- B. If any damage is found during the inspection required by Paragraph A of this AD, replace the applicable pressure hose(s) before further flight, in accordance with Section 2.D. of the Accomplishment Instructions of the applicable SB.

- C. If clearance below minimum required is found during the inspection required by Paragraph A of this AD, adjust the applicable hose(s) to obtain minimum acceptable clearance between the engine driven pump hydraulic pressure hose and case drain, suction pressure hose and surrounding pylon structure, before further flight, in accordance with Section 2.C. of the Accomplishment Instructions of the applicable SB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 21 February 2024

Contact:

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