



EMERGENCY 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-2022-62

Effective Date:

23 November 2022

ATA:

67

Type Certificate:

H-112

Subject:

Rotors Flight Controls – Collective Lever to Swashplate Outer Ring Fouling

Applicability:

Bell Textron Canada Limited (Bell) model 505 helicopters, serial numbers 65011 through 65412, 65414 through 65416, 65419 through 65426, 65428, 65430 and 65431.

Compliance:

Within 10 hours air time or 30 days, whichever occurs first, from the effective date of this AD, unless already accomplished.

Background:

Bell has identified a potential fouling condition between the collective lever and the swashplate outer ring when conducting an installation test for a new design.

A rotating swashplate outer ring fouling on the non-rotating collective lever may impact the main rotor flight control mechanism. This condition, if not corrected, could lead to loss of control of the helicopter.

Bell has issued an Alert Service Bulletin (ASB) to perform a rigging check for clearance as well as control system rigging, if applicable. This AD mandates compliance with the associated ASB.

This AD is considered interim action and further AD action may follow.

Corrective Actions:

- A. Perform a collective control system rigging check in accordance with the Accomplishment Instructions specified in Part I of Bell ASB 505-22-33 Initial Release, dated 3 November 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. If any of the minimum clearance parameters required under Corrective Action A above are outside of tolerance, before further flight, perform the collective and cyclic control system rigging in accordance with the Accomplishment Instructions specified in Part II of Bell ASB 505-22-33 Initial Release, dated 3 November 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Robert Farinas
Acting Chief, Continuing Airworthiness
Issued on 9 November 2022

Contact:

Grant Walker, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.