



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-2025-23

Effective Date:

7 May 2025

ATA:

54

Type Certificate:

H-112

Subject:

Nacelles/Pylons - Oil Cooler Fan Assembly Housing bracket cracking

Applicability:

Bell Textron Canada Limited (BTCL) model 505 helicopters, Serial Numbers 65011 through 65020 and 65022 through 65027

Compliance:

As indicated below, unless already accomplished.

Background:

BTCL was informed that an oil cooler fan assembly housing mounting bracket was found cracked. Investigation identified that the initial design of a 'Z' shaped bracket that was welded to the housing, and then bolted to a bracket on the truss, was susceptible to cracking.

The loss of the mounting support could lead to drive shaft fouling and loss of tail rotor drive. Loss of tail rotor drive is considered an unsafe condition.

Corrective Actions:

For the purposes of this AD, the following definition apply:

The ASB: BTCL Alert Service Bulletin (ASB) 505-23-35 Initial Release, dated 24 July 2023 or later revisions approved by Chief, Continuing Airworthiness, Transport Canada.

1. Within 25 hours air time or 30 days from the effective date of this AD, conduct a visual inspection of the right bracket of the oil cooler blower housing, in accordance with Part I of the ASB.
2. If a crack is found while accomplishing corrective action 1 above, before further flight, modify the right bracket of the oil cooler fan assembly housing in accordance with Part II of the ASB.
3. If no crack is found while accomplishing corrective action 1 above, within 50 hours air time or 90 days following the accomplishment of corrective action 1 above, whichever occurs first, modify the right bracket of the oil cooler blower housing in accordance with Part II of the ASB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 23 April 2025

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.