



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) to ADs.

Number:

CF-2019-15

Effective Date:

27 April 2019

ATA:

64

Type Certificate:

H-107

Subject:

Tail Rotor System – Incorrect Assembly

Applicability:

Bell Helicopter Textron Canada Limited (BHTCL) model 429 helicopters, serial numbers 57001 through 57363.

Compliance:

As indicated below, unless already accomplished.

Background:

Bell has received a report of an improperly installed Curvic Coupling Part Number 429-012-120-101. It was found that the teeth could rest on top of each other during installation of the tail rotor hub and blade assembly instead of meshing together. This configuration is vulnerable to loosening of the tail rotor assembly and subsequent vibration and loss of drive to the outboard tail rotor blades. Loss of drive to the outboard tail rotor blades will result in degraded directional control.

Corrective Actions:

- A. Within 10 hours air time or 7 days, whichever occurs first, from the effective date of this AD, inspect the tail rotor in accordance with the requirements of BHTCL Alert Service Bulletin (ASB) 429-19-45, dated April 16, 2019.
- B. If defective conditions are noted during the inspection, before further flight, correct those defective conditions in accordance with the requirements of ASB 429-19-45, dated April 16, 2019.
- C. Within 3 days from the completion of the inspection required by paragraph A., report any anomalies detected during the inspection in accordance with the requirements of BHTCL Alert Service Bulletin (ASB) 429-19-45, dated April 16, 2019.

The use of later revisions of ASB 429-19-45 approved by the Chief, Continuing Airworthiness, Transport Canada also meets the requirements of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 26 April 2019

Contact:

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