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No. CF-85-04

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to Canadian Aviation Regulation (CAR) 593. Pursuant to CAR 605.84 and the further details of CAR Standard 625, Appendix H, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with CAR 605.84 and the above- referenced Standard.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

CF-85-04 DE HAVILLAND

Applies to all de Havilland Aircraft of Canada DHC-3 Otter aircraft.

Compliance is required as indicated.

In-service damage has occurred to the elevator pushrod and attachment bolt to the elevator quadrant in the stub fin. The damage usually takes the form of bowing of the pushrod and bending of the attachment bolt, caused by high external loads applied to the elevator due to strong gust loading while the aircraft is parked. Similar problems could develop with the rudder pushrod to rear quadrant attachment bolt.

To detect damage and prevent failure, accomplish each of the following: -

- a) Within the next 10 flying hours, visually inspect:
 - (i) the elevator pushrod (Part No. C3-CF-167 or replacement pushrod Part No. C3-CF-633-1); and
 - (ii) the elevator pushrod to rear quadrant attachment bolt (bolt No. AN-174-16) and associated hardware or replacement bolt (No. NAS1954-24D) and associated hardware.

Inspection should concentrate on the detection of bowing of the pushrod, cracking of the pushrod threaded ends or bending of the attachment bolt. If evidence of component damage is found, replace the components before further flight in accordance with de Havilland Service Bulletin number 3/35, Revision A and Service Bulletin number 3/43, initial issue, or subsequent revisions as approved by the Director, Airworthiness Branch, Transport Canada, Ottawa, except that attachment bolt No. AN-174-16 may be used in lieu of bolt No. NAS1954-24D until such time as paragraph (b) of this Airworthiness Directive comes into effect. If the aforementioned bolt is replaced with bolt #NAS1954-24D, the rudder pushrod to rear quadrant attachment bolt and associated hardware are also to be replaced at the same time with hardware as specified in Service Bulletin 3/43, initial issue, or subsequent revisions as approved by the Director.

Within 100 flight hours after the effective date of this Directive, unless already accomplished, replace the elevator pushrod to rear quadrant attachment bolt and associated hardware in accordance with de Havilland Service Bulletin Number 3/43, initial issue, or subsequent revisions as approved by the Director. Simultaneously, unless already accomplished, replace the rudder pushrod to rear quadrant attachment bolt and associated hardware in accordance with Service Bulletin 3/43, initial issue, or subsequent revision as approved by the Director.

- c) Whenever a parked aircraft has been exposed to jet or helicopter blast or winds with an estimated mean velocity of 55 Km/h with gusting up to 100 Km/h, compliance with paragraph (a) must be accomplished before further flight regardless of whether the new components of paragraph (b) have been installed or not. After exposure to these wind velocities visually inspect the remainder of the elevator control circuit for damage in accordance with de Havilland Service Bulletin 3/35, Revision A, or subsequent revision as approved by the Director.

Modifications to provide relief from the requirements of this Directive, or to accomplish changes to the initial and subsequent compliance times specified, are acceptable only if approved by the Director.

This Directive becomes effective May 21, 1985.



Documents

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Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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