



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-2023-73

Effective Date:

17 November 2023

ATA:

05

Type Certificate:

E-39

Subject:

Time Limits/Maintenance Checks – New Airworthiness Limitations

Applicability:

Pratt & Whitney Canada (P&WC) model PW814GA and PW815GA engines, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

P&WC, the manufacturer of the engine models affected by this AD, determined through re-analysis of certification and in-service data that certain engine components no longer meet the life limited component cyclic limits and mandatory scheduled inspection/maintenance intervals previously published in the airworthiness limitations manual (ALM). Consequently, P&WC updated the ALM for the affected parts. Failure to comply with these updated ALM items could lead to an unsafe condition, and potentially damage the engine and aeroplane.

The actions mandated by this AD will ensure that the affected components are replaced or inspected as applicable, prior to reaching their limits in the updated ALM.

Corrective Actions:

A. As of the effective date of this AD, no part shall be installed, or remain installed, unless it meets the limitations, maintenance tasks and associated thresholds and intervals described below in the P&WC ALM part number 33B1391, Issue No. 020, dated 11 July 2023:

1. Engine Parts – Service Life

- a. Replacement of the engine parts in accordance with the instructions in “Table 1 Engine Components - Service Life” of ALM data module code (DMC) PW800-A-05-10-00-00A-288B-D.
- b. Mandatory inspection and maintenance tasks required for life limited parts, and parts that influence life limited parts listed in “Table 2 Engine Components - Mandatory Maintenance Tasks” of the above-mentioned ALM DMC in accordance with the instructions in Table 2.

2. In-Service Inspection of Critical Parts

Inspection of the parts listed in the “Table 1 In-Service Inspection of Critical Parts” of the ALM DMC PW800-A-05-10-00-02A-282A-D in accordance with the instructions in the said DMC.

B. The use of superseding ALM Temporary Revisions or later revisions of the ALM, approved by Transport Canada, is acceptable for compliance with the requirements of paragraph A.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 3 November 2023

Contact:

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SUPERSEDED