Transport Canada Transports Canada

Canada

No. CF-90-22R1

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-90-22R1 PRATT & WHITNEY CANADA

Applies to Pratt & Whitney Canada (P&WC) PW123, PW123AF and PW124B engines not incorporating P&WC Service Bulletin (SB) 21018 dated 25 February 1991, or SB 21018R1 (Revision 1) dated 18 March 1991. The above engines are installed in, but not necessarily restricted to, DHC-8 Series 300, CL-215T and ATR-72 aircraft.

Compliance with parts A and B of this directive is required initially within two calendar days after the effective date of this directive, unless previously accomplished since 15 October 1990, and subsequently as indicated.

Compliance with part C of this directive is required at the next shop visit or before 30 June 1994, whichever occurs first.

There has been a bearing failure due to oil starvation which caused the low pressure turbine (LPT) integral stub shaft to fracture, resulting in an LPT overspeed and a disk burst.

To ensure that the oil system inspections will detect metal contamination of the engine oil due to bearing deterioration, and to preclude the possibility of a future incomplete containment event, accomplish the following:

A. For all PW123, PW123AF and PW124B engines:

1. Perform Part A (turbomachinery chip detector continuity check) of the Accomplishment Instructions of P&WC SB 20938R1 dated 2 July 1991, or its revisions, or superseding SBs that are "DOT Approved";

NOTE: For PW123 engines, an engine condition panel/flag check is an alternative means of compliance with the requirement of step A.1.

2. Repeat step A.1 (above) of this directive at intervals not to exceed 25 flight hours;

3. Perform Part B (turbomachinery chip detector functional check) of the Accomplishment Instructions of P&WC SB 20938R1 dated 2 July 1991, or its revisions, or superseding SBs that are "DOT Approved";

4. Repeat step A.3 (above) of this directive at intervals not to exceed 300 flight hours.

B. For PW123 engines:

1. Perform Part C (turbomachinery chip detector airframe circuitry check) of the Accomplishment Instructions of P&WC SB 20938R1 dated 2 July 1991, or its revisions, or superseding SBs that are "DOT Approved";

2. Repeat step B.1 (above) of this directive at intervals not to exceed 300 flight hours.

C. For all applicable engines, incorporate the modifications described in P&WC SB 21018R1 dated 18 March 1991, or its revisions, or superseding SBs that are "DOT Approved".

Compliance with part C (above) of this directive constitutes terminating action for parts A and B of this directive.

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Alternate means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This revision supersedes Airworthiness Directive CF-90-22 issued 12 October 1990.

This directive becomes effective 19 August 1991.

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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