



No.	CF-2000-27	1/2
Date	29 August 2000	

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 AN 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, AIRCRAFT CERTIFICATION BRANCH, TRANSPORT CANADA, OTTAWA.

CF-2000-27 PRATT & WHITNEY CANADA

Applies to all Pratt & Whitney Canada (P&WC) PW306A and PW306B engines.

Compliance is required as indicated.

The Transport Canada Type Approval Data Sheet (TAD) E-22 mandates compliance with the service life of PW306A and PW306B engine rotor components. The TAD references the Airworthiness Limitations section (ALS) in the Maintenance Manual P/N 30B1412 for the PW306A, and the Airworthiness Limitations Manual P/N 30B2978 for the PW306B.

The ALS of Maintenance Manual P/N 30B1412 currently defines the life limits of the PW306A compressor rotor drum (2nd, 3rd and 4th stage, P&WC P/Ns 30B4149-01, 30B4539-01 and 30B4725-01) and impeller (P/Ns 30B4183-01, 30B4494-01 and 30B4564-01) to be 6,000 cycles, with a Flight Count Factor of 1.

Airworthiness Limitations Manual P/N 30B2978 currently defines the life limits of the PW306B compressor rotor drum (2nd, 3rd and 4th stage, P/Ns 30B4149-01, 30B4539-01 and 30B4725-01) and impeller (P/Ns 30B4183-01, 30B4494-01 and 30B4564-01) to be 6,000 cycles, with a Flight Count Factor of 1.

Additional spin tests of the compressor rotor drum and impeller, performed by P&WC, necessitates a reduction in the above service life.

To prevent premature failure of the affected compressor rotor drum and the impeller used in the PW306A and PW306B engines, remove the following disks from service prior to reaching the life limits shown below:

ENGINE MODEL	COMPONENT	PART NUMBER	FLIGHT COUNT FACTOR	LIFE LIMIT (Cycles)
PW306A	Rotor Drum (2nd, 3rd and 4th stage)	30B4149-01	0.9	3,000
		30B4539-01	0.9	3,000
		30B4725-01	0.9	3,000
	Impeller	30B4183-01	0.9	3,000
		30B4494-01	0.9	3,000
		30B4564-01	0.9	3,000
PW306B	Rotor Drum (2nd, 3rd and 4th stage)	30B4149-01	1	3,000
		30B4539-01	1	3,000
		30B4725-01	1	3,000
	Impeller	30B4183-01	1	3,000
		30B4494-01	1	3,000
		30B4564-01	1	3,000

Note: The Airworthiness Limitations section of the applicable PW306 Maintenance Manual (P/N 30B1412 for the PW306A and P/N 30B2978 for the PW306B) outlines the method to calculate service life.

This directive becomes effective 6 October 2000.

For Minister of Transport



for B. Goyaniuk
Chief, Continuing Airworthiness

Further information contact a Transport Canada Centre, or Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone (613) 952-4461, facsimile (613) 996-9178 or e-mail laur@tc.gc.ca.