



F.A.A. CRS OTUR438L
 836 Texas Court, O'Fallon, MO 63366
 636-978-5300 www.avmats.com

Pratt & Whitney Canada Engine JT15D-5A S/N: PCE-108335
TT: 7728.3 TC: 7504 TSO: 750.5 CSO: 533 Build Spec: 729

Repaired #2 Bearing failure and metal contamination. Disassembled, cleaned, inspected and reassembled engine. Replaced the following: 1 each Fuel Control Unit with overhauled P/N 3244851-10 S/N B29310; 1 each LPT Stator with overhauled P/N 3047462CL4070 FC:40.66; 1 each #4 Bearing with serviceable P/N 3101733-01 S/N FA9615721; 1 each AGB Input Driveshaft with overhauled P/N 3100641-01 S/N 5H840; 1 each AGB Duplex Bearing with overhauled P/N 3053963-01 S/N FC147645; 1 each #2 Bearing with overhauled P/N 3119579-01 S/N FAA0740010; 1 each Bleed Valve Control with serviceable P/N 800831-1-001; 1 each #1 Bearing with overhauled P/N 3115269-01 S/N FA9406710; 1 each #3 Bearing with overhauled P/N 3107493-01 S/N FC127545; 1 each #3 1/2 Bearing with overhauled P/N 3101648-01 S/N FA7407D41; 1 each HPT Stator with overhauled P/N 3037261 S/N 7R417 FC: 39.19; 1 each Impeller with overhauled P/N 3040939 S/N A00020BX; 1 each HPT Disk with overhauled P/N 3036411 S/N A000098K; 1 each LPT 2nd Stage Disk with overhauled P/N 3022212 S/N 62A644; 1 each LPT 3rd Stage Disk with overhauled P/N 3036113 S/N 62A966; 71 each HPT Blades with overhauled P/N 3029601. Performed satisfactory performance run and leak check at AES Test Facility. No discrepancies noted at this time. All work performed in accordance with Pratt & Whitney Canada JT15D-5A Overhaul Manual P/N 3037323, Revision 33 dated August 16, 2021 and Pratt & Whitney Canada JT15D-5A Maintenance Manual P/N 3037322, Revision 41 dated April 25, 2022. Note: S.B. 7363 incorporated.

The aircraft engine or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under work order No. 24535 Date 5/13/24

Justin Reynolds
 (Signature of Authorized Representative)

AVMATS Engine Support (Repair Station name) CRS OTUR 438L (Certificate No.)
 836 Texas Court
 Lone Star Industrial Park
 O'Fallon, MO 63366

JT15D ANALYSIS, PWC83021 Version 1.1.1 USER FILE: ABUS_PRD_B3729_MV_B
 FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
 ENGINE: 108335 BUILD: 2
 CONDITION NUMBERS (1U,1T,3F) = 1 2 3 4 5

FULL CALIBRATION
 FINAL PERFORMANCE AT REFERENCE T.O. THRUST OF 2900 LBS

ANALYSIS	PARAMETER	VALUE	COD	
B.F.S.L.	N1	15126.5	0.99375	BASED ON 5 POINTS
B.F.S.L.	N1	15115.952	0.99962	BASED ON 4 POINTS
				CONDITION NO. 4 REMOVED
B.F.S.L.	N2	30034.4		
B.F.S.L.	T5	1613.7		
CURVE FLT	SFC @ 2900	0.535		
AVERAGE	DELO	0.96392		
AVERAGE	THEO	1.00929		
B.F.S.L.	HQ*RTHO/DO	81.855		
AVERAGE	W4*RT4/P3	13.9853		
B.F.S.L.	T5D/THO	1920.6		
U POINT	TRIM	108.1		
B.F.S.L.	T7/THO	1484.5		
B.F.S.L.	EFF(O3)	0.64371		
B.F.S.L.	PS3/PTO	9.5435		
U POINT	T7 SPREAD	67.0		

N1 REF = 95.07 % NC REF = 91.68 %
 REF TS = 620.2 DEGREES C. NOZZLE CLASS = V4

SUMMARY PWC83021 - 03-05-2024 / 08:15:53

MODEL	ENGINE	CELL	DATE	BARO	AV.TF
JT15D-5A	108335		2024/05/03	14.46	69.

LHV	SG	TSG	FNCCP
10550.	.760	69.	1.034

PERFORMANCE DATA

REFERENCE THRUST - 2900. LBS

PARAMETER	ACTUAL	PARAMETER	ACTUAL
N1/PTHO	15116.0	SFC @ 2900. LBS	.535
N2/PTHO	30034.4	SFC @	
T5/THO	1613.7	SFC @	

JT15D Life Limited Parts Record Sheet
Engine Model: JT15D-5A **Build Spec: 729**

TT: 7728.3

TC: 7504

TSO: 750.5

CSO: 533

<i>Nomenclature Compressor Disks</i>	<i>Part Number</i>	<i>Serial Number</i>	<i>Total Time</i>	<i>Total Cycles (Actual)</i>	<i>FCF per S.B. 7002</i>	<i>Calcul a- ted Cycles</i>	<i>TC Remain- ing</i>	<i>Actual Cycles Remain- ing</i>
Hub Low Compressor #1	3037911	42A942	7728.3	7504	1.0	7504	4496	4496
Hub Low boost compressor	3034112	41A945	7728.3	7504	1.0	7504	6496	6496
Impeller Centrifugal*	3040939	A00020BX	12684.4	9524	1.0	9524	2476	2476
Disk High Turbine Rotor *	3036411	A000098K	9914.5	11108	1.0	11108	2892	2892
Disk Low Turbine Rotor (Second) *	3022212	62A644	8801.8	8026	1.0	8026	5974	5974
Disk Low Turbine Rotor (Third) *	3036113	62A966	8801.8	8026	1.0	8026	5974	5974
High Turbine Blades (Reference S.B. 7003)*	3029601	-----	-----	-----	---	---	TT Remaining:	

*Note: To determine calculated cycles multiply actual cycles times FCF (flight count factor).
To determine actual cycles remaining divide total cycles remaining by the flight count factor.*

Remarks: As Installed

** Indicates change at this repair.*