



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

Pratt & Whitney Canada Engine JT15D-4 S/N: PCE-71598
TT: 6743.2 TC: 5755 TSO: 0.0 CSO: 0 Build Spec: 507

Engine overhauled. Disassembled, cleaned, inspected, repaired, and reassembled in accordance with Pratt & Whitney Canada JT15D-1/1A/1B/4/4B/4D Overhaul Manual P/N 3017543, Revision 38 dated August 15, 2022. A.D.'s 74-26-05 Fuel Control Interference, 78-17-06 Fuel Manifold Adapter, 87-10-01 Fan Blade Inspection and 93-18-08 HPT Blade Shift, previously complied with March 2001. For details of disks and accessories installed see Logbook Data Sheet dated 08-Sep-23. Engine passed test cell run and preserved per Pratt & Whitney Canada JT15D-1/1A/1B/4/4B/4D Overhaul Manual P/N 3017543, Revision 38 dated August 15, 2022. (**Note:** Exhaust Nozzle Class M3 is required.)

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. 25377 Date 19-Sept-23

David A. Newberry

(Signature of Authorized Representative)

AVMATS Engine Support

CRS OTUR 438L

(Repair Station name)

(Certificate No.)

836 Texas Court
Lone Star Industrial Park
O'Fallon, MO 63366

JT15D ANALYSIS, PWC83021 Version 1.1.1 USER FILE: ABUS_PRD_83507_HV_8
FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
ENGINE: 071598 BUILD: 3
CONDITION NUMBERS (1U, 1T, 3P) = 1 2 3 5 6

FULL CALIBRATION

FINAL PERFORMANCE AT REFERENCE T.O. THRUST OF 2500 LBS

ANALYSIS	PARAMETER	VALUE	COD
.F.S.L.	N1	15798.0	0.99951 BASED ON 5 POINTS
.F.S.L.	N2	30804.0	
.F.S.L.	T5	1676.6	
WAVE FIT	SFC @ 2500	0.535	
AVERAGE	DELO	0.98092	
AVERAGE	THEQ	1.03396	
.F.S.L.	W0*RTHO/DO	76.805	
AVERAGE	W4*RT4/P3	6.8430	
.F.S.L.	T5D/THO	1867.4	
POINT	TRIM	93.5	
.F.S.L.	T7/THO	1542.9	
.F.S.L.	EFF(03)	0.76093	
.F.S.L.	PS3/PTO	9.6858	
POINT	T7 SPREAD	46.0	

L REF = 99.36 °

N2 REF = 94.03 °

EF T5 = 658.9 DEGREES C.

NOZZLE CLASS = M3

SUMMARY PWC83021 - 06-09-2023 / 13:15:09

MODEL	ENGINE	CELL	DATE	BARO	AV.TF
JT15D-4	071598		2023/09/06	14.42	88.
	LHV	SG	TSG	FNCOR	
	18809.	.808	88.	1.034	

PERFORMANCE DATA

REFERENCE THRUST = 2500. LBS

PARAMETER	ACTUAL	PARAMETER	ACTUAL
W/RTHO	15798.0	SFC @ 2500. LBS	.535
RTHO	30804.0	SFC @	
S/THO	1676.6	SFC @	

JT15D-4

Engine Serial # PCE-71598

W/O 25377

T.S.N.: 6743.2

C.S.N.: 5755

T.S.O.: 0.0

C.S.O.: 0



836 Texas Court

O'Fallon, MO 63366

636-978-5300

FAA-CRS #OTUR438L

Turbine Vane Ring Areas: HT: 38.82 LT: 38.88

Airworthiness Directive Status: Previously Accomplished: 74-26-05, 78-17-06, 87-10-01, 93-18-08

Pratt & Whitney Service Bulletins Accomplished: 7318R1, 7438R2, 7523, 7607

Manufacturer Service Bulletins Accomplished: 3029210-73-6, 3029210-73-8

Corrected Engine Performance

Trim Data Weight Location

Thrust	N1% / RPM	Nozzle Class	N2% / RPM	T5 Trim	Build Spec	High Rotor		High Rotor		Low Rotor	
2500	99.36/15798	M3	94.03/30804	34.1	507	FE22	FF37	RE22	RF37		

LIFE LIMITED COMPONENTS INSTALLATION (Note: Refer to S.B. 7002, Latest Revision for Approved Life Limits)

Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks	Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks
Hub - L.C.	3018018	12A995	6743.2	5755		Blades - H.T.	3055021-01	NSN	NA	NA	Not Life Limited
Hub - Booster	3021112	8Y061	6743.2	5755		Disk Stage 2, L.T.	3022212	7Y796	6743.2	5755	
Impeller	3040937	2H907	3076.5	2962	Replaced	Disk Stage 3, L.T.	3021313	11A639	6743.2	5755	
Disk - H.T.	3023411	10A414	6743.2	5755							

LOW COMPRESSOR BLADE INSTALLATION

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
3038301	PV0103704	3038301	PV0103708	3038301	PV0103702
3038301	PV9926409	3038301	PV0103706	3038301	PV0103724
3038301	PV9926424	3038301	PV0103726	3038301	PV0103712
3038301	PV0103703	3038301	PV0103710	3038301	PV0103713
3038301	PV0103705	3038301	PV0103707	3038301	PV9926415
3038301	PV0103711	3038301	PV0103717	3038301	PV0103725
3038301	PV0103716	3038301	PV0103701	3038301	PV0103715
3038301	PV0103714	3038301	PV0103722	3038301	PV0103720
3038301	PV0103718	3038301	PV0103721	3038301	PV9926403
3038301	PV0103723				

ACCESSORY INSTALLATION

Name	P/N	S/N	T.S.O.	Remarks	Name	P/N	S/N	T.S.O.	Remarks
Anti-Ice Valve	KW15632	554	0.0		Hydromech FCU	3244759-4SB-8	A92935	0.0	
Bleed Valve Actuator	NA	NA	NA		Motive Flow Valve	2524995-1	A90975	0.0	
BVC Wiring Harness	NA	NA	NA		N1 Sensor	NA	NA	NA	
Electronic Bleed Control	NA	NA	NA		N2 Sensor (2)	NA	NA	NA	
Exciter	NA	NA	NA		Oil Cooler	UA530768-4	8N696	0.0	
Exciter	NA	NA	NA		Oil Filter	3059256-01	NSN	NA	
Fuel Pump	025493-402-05	2905	0.0		Oil Pump Assy	3104289-04	7W928	0.0	
Fuel Surge Accumulator	NA	NA	NA		Shut off Valve	25607-2	1902	0.0	

Authorized Signature

Date

08 Sep 23