



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

Pratt & Whitney Canada Engine JT15D-5 S/N: PCE-100148
TT: 7163.3 TC: 7667 TSO: 0.0 CSO: 0 Build Spec: 713

Engine overhauled. Disassembled, cleaned, inspected, repaired and reassembled in accordance with Pratt & Whitney Canada JT15D-5/5R Overhaul Manual P/N 3033443, Revision 37 dated June 24, 2024. AD 91-01-03 FCU Leak Check, 93-19-03 previously complied with 11-26-90. For details of disks and accessories installed see Logbook Data Sheet dated 5-June-25. Engine passed test cell run and preserved per Pratt & Whitney Canada JT15D-5/5R Overhaul Manual P/N 3033443, Revision 37 dated June 24, 2024.

(Note: Exhaust Nozzle Class -1 is required and engine is limited to an additional 3421 cycles by Impeller installed.)

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. _____ Date _____

(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_BS713_WV_10
FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
ENGINE: 100148 BUILD: 7
CONDITION NUMBERS (1U,1T,3P) = 1 3 4 5 6

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

ANALYSIS	PARAMETER	VALUE	COD
B.F.S.L.	N1	15220.6	0.98964
B.F.S.L.	N1	15208.416	0.99888
			BASED ON 5 POINTS
			BASED ON 4 POINTS
			CONDITION NO. 1 REMOVED
B.F.S.L.	N2	29865.0	
B.F.S.L.	TS	1598.1	
CURVE FIT	SFC @ 2900	0.534	
AVERAGE	DELO	0.98292	
AVERAGE	THEO	1.02483	
B.F.S.L.	WQ*RTHO/D0	81.855	
AVERAGE	W4*RT4/P3	6.9827	
B.F.S.L.	T5D/THO	1796.9	
U POINT	TRIM	110.9	
B.F.S.L.	T7/THO	1461.7	
B.F.S.L.	EFF(O3)	0.79326	
B.F.S.L.	PS3/PTO	11.9731	
U POINT	T7 SPREAD	138.0	

N1 REF = 95.65 % N2 REF = 91.16 %
REF TS = 604.8 DEGREES C. NOZZLE CLASS = -1

SUMMARY PWC83021 - 30-05-2025 / 12:34:27

MODEL	ENGINE	CELL	DATE	BARO	AV.TF
JT15D-5	100148		2025/05/30	14.45	76.
LHV	SG	TSG	FMCOR		
18809.	.809	76.	1.034		

PERFORMANCE DATA

REFERENCE THRUST - 2900. LBS

PARAMETER	ACTUAL	PARAMETER	ACTUAL
N1/RTHO	15208.4	SFC @ 2900. LBS	.534
N2/RTHO	29865.0	SFC @	
TS/THO	1598.1	SFC @	



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FAA-CRS #OTUR438L

JT15D-5

Engine Serial # PCE-100148

T.S.N.: 7163.3

T.S.O.: 0.0

Work Order# 27547

C.S.N.: 7667

C.S.O.: 0

Turbine Vane Ring Areas: HT: 39.42 LT: 40.78

Airworthiness Directive Status: None due at time of overhaul.

Pratt & Whitney Service Bulletins Accomplished: 7407, 7438R2, 7617, 7625R1

Manufacturer Service Bulletins Accomplished: JFC118-31-73-24

Corrected Engine Performance

Trim Data Weight Location

Thrust	N1% / RPM	Nozzle Class	N2% / RPM	T5 Trim	Build Spec	High Rotor	High Rotor	Low Rotor
2900	95.65/15208	-1	91.16/29865	26	713	FF22	FE23	RF25

Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks	Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks
Hub - L.C.	3036811	3R096	6151.4	4821		Blades - H.T.	3029601	NSN	N/A	N/A	
Hub - Booster	3034112	7T350	7163.3	7667		Disk Stage 2, L.T.	3022212	7W548	7163.3	7667	
Impeller	3040939	A0002KD7	10891.7	8579	REPLACED	Disk Stage 3, L.T.	3036113	9W929	7163.3	7667	
Disk - H.T.	3036411	2W611	7163.3	7667							

LOW COMPRESSOR BLADE INSTALLATION

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
3109101-01	PV0115019	3109101-01	PV0115014	3109101-01	PV0115010		
3109101-01	PV0115006	3109101-01	PV0115016	3109101-01	PV0115018		
3109101-01	PV0115017	3109101-01	PV0115001	3109101-01	PV0115002		
3109101-01	PV0115017	3109101-01	PV0115015	3109101-01	PV0115013		
3109101-01	PV0115007	3109101-01	PV0115009	3109101-01	PV0115003		
3109101-01	PV0115008	3109101-01	PV0115004	3109101-01	PV0115012		
3109101-01	PV0115005						

ACCESSORY INSTALLATION

Name	P/N	S/N	T.S.O.	Remarks	Name	P/N	S/N	T.S.O.	Remarks
Anti-Ice Valve	10018200	1276	0.0		Hydromech FCU	710155-9	F33695	0.0	
Bleed Valve Actuator	766400-4	F26985	0.0		Motive Flow Valve	N/A	N/A	N/A	
BVC Wiring Harness	3103296-01	4P747	0.0		N1 Sensor	3100335-01	A206	0.0	
Electronic Bleed Control	780933-3-009	90045489	N/A		N2 Sensor (2)	3032997	A595/G995	0.0	
Exciter	N/A	N/A	N/A		Oil Cooler	14438-000	174	0.0	REPLACED
Exciter	N/A	N/A	N/A		Oil Filter	1764065	N/A	0.0	
Fuel Pump	710501-2	0178	0.0		Oil Pump Assy	3104289-01	PWW011263JT	0.0	
Fuel Surge Accumulator	N/A	N/A	N/A		Shut off Valve	3034336	0167	0.0	

Authorized Signature

Date

05 JUN 25

ENGINE IS CYCLE LIMITED TO 3421 CYCLES