



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-108527
TT: 3550.3 TC: 3279 TSO: 0.0 CSO: 0 Build Spec: 729

Engine overhauled. Disassembled, cleaned, inspected, repaired and reassembled in accordance with Pratt & Whitney Canada JT15D-5A Overhaul Manual P/N 3037323, Revision 35 dated August 14, 2023. AD 93-19-03 Modify Flow Divider previously complied with. For details of disks and accessories installed see Logbook Data Sheet dated 24-Jan-25. Engine passed test cell run and preserved per Pratt & Whitney Canada JT15D-5A Overhaul Manual P/N 3037323, Revision 35 dated August 14, 2023.

(Note: Exhaust Nozzle Class V4 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. 27451 Date 31-Jan-25

Daniel 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_BS729_WV_8
FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
ENGINE: 108527 BUILD: 4
CONDITION NUMBERS (1U,1T,3P) = 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	15107.9	0.99204
B.F.S.L.	N1	15125.953	0.99926
			BASED ON 5 POINTS
			BASED ON 4 POINTS
			CONDITION NO. 1 REMOVED
B.F.S.L.	N2	29749.5	
B.F.S.L.	T5	1604.1	
CURVE FIT	SFC @ 2900	0.524	
AVERAGE	DELO	0.99261	
AVERAGE	THEO	0.93056	
B.F.S.L.	WQ*ETHO/DO	81.855	
AVERAGE	W4*RT4/P3	5.8670	
B.F.S.L.	T5D/THO	1623.8	
U POINT	TRIM	67.4	
B.F.S.L.	T7/THO	1480.2	
B.F.S.L.	EFF(O3)	0.79819	
B.F.S.L.	PS3/PTO	11.6852	
U POINT	T7 SPREAD	63.0	

N1 REF = 95.13 %

N2 REF = 90.61 %

REF T5 = 614.2 DEGREES C.

NOZZLE CLASS = V4

SUMMARY PWC83021 - 22-01-2025 / 14:11:37

MODEL	ENGINE	CELL	DATE	BARO	AV.TF
JT15D-5A	108527		2025/01/22	14.59	19.
	LHV	SG	TSG	FNCOR	
	18550.	.760	19.	1.034	

PERFORMANCE DATA

REFERENCE THRUST - 2900. LBS			
PARAMETER	ACTUAL	PARAMETER	ACTUAL
N1/ETHO	15126.0	SFC @ 2900. LBS	.524
N2/ETHO	29749.5	SFC @	
T5/THO	1604.1	SFC @	

JT15D-5A	Engine Serial # PCE-108527	T.S.N.: 3550.3	T.S.O.: 0.0
Work Order# 27451		C.S.N.: 3279	C.S.O.: 0



Turbine Vane Ring Areas: HT: 39.74 LT: 40.87
 Airworthiness Directive Status: None due at time of overhaul.
 Pratt & Whitney Service Bulletins Accomplished: 7428R1, 7438R2, 7497R2, 7513R4, 7541, 7549R1, 7561R2, 7565R1, 7617, 7625R1
 Manufacturer Service Bulletins Accomplished: 3244880-73-9

Corrected Engine Performance				Trim Data Weight Location			
Thrust	N1% / RPM	Nozzle Class	N2% / RPM	T5 Trim	B/S	High Rotor	High Rotor
2900	95.13/15126	V4	90.81/29749.5	29.8	729	FE25 FE31 FE34	RE25 RE31 RE34

Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks	Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks
Hub - L.C.	3037911	70A455	3550.3	3279		Blades - H.T.	3029601	NSN	NA	NA	Not Life Limited
Hub - Booster	3038312	54A380	3550.3	3279		Disk Stage 2, L.T.	3022212	72A938	3550.3	3279	
Impeller	3040939	8E129	3550.3	3279		Disk Stage 3, L.T.	3036113	65A415	3550.3	3279	
Disk - H.T.	3036411	64A863	3550.3	3279							

LOW COMPRESSOR BLADE INSTALLATION											
Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
3117460-01	22A301	3117460-01	22A123	3117460-01	22A117	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302
3117460-01	22A334	3117460-01	22A117	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122
3117460-01	22A151	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122	3117460-01	22A282
3117460-01	22A249	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122	3117460-01	22A282
3117460-01	22A358	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122	3117460-01	22A282
3117460-01	22A125	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122	3117460-01	22A282
3117460-01	22A293	3117460-01	22A374	3117460-01	22A324	3117460-01	22A302	3117460-01	22A122	3117460-01	22A282

ACCESSORY INSTALLATION											
Name	P/N	S/N	T.S.O.	Remarks	Name	P/N	S/N	T.S.O.	Remarks	Name	P/N
Anti-Ice Valve	10018200	1034	0.0		Hydromech FCU	3244880-9	C4276	0.0			
Bleed Valve Actuator	800888-1	F45069	0.0		Motive Flow Valve	3244850-1	B28552	0.0			
BVC Wiring Harness	3112424-01	AA2885	0.0		N1 Sensor	3100335-01	B136	0.0			
Electronic Bleed Control	800831-3-001	C93101205	N/A		N2 Sensor (2)	3032997	C614/C617	0.0			
Exciter	N/A	N/A	N/A		Oil Cooler	11438-000	1392	0.0			
Exciter	N/A	N/A	N/A		Oil Filter	7578659AM	NSN	0.0	REPLACED		
Fuel Pump	717101-01	0020	0.0		Oil Pump Assy	3104289-01	64152	0.0			
Fuel Surge Accumulator	3041669-01	0667	0.0		Shut off Valve	26395-2	0133	0.0			

Authorized Signature  Date 24 Nov 25