



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-JA0269
TT: 3708.42 TC: 3531 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 previously complied with 23-June-99. For details of disks and accessories installed see Logbook Data Sheet dated 13-Mar-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.)

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. 27377 Date 1-May-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: &BUS_PRD_BS713_MW_10
FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
ENGINE: JA0269 BUILD: 2
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	15172.9	0.99766 BASED ON 5 POINTS
B.F.S.L.	N2	29852.7	
B.F.S.L.	T5	1597.6	
CURVE FIT	SFC @ 2900	0.520	
AVERAGE	DELO	0.97590	
AVERAGE	THEO	1.01892	
B.F.S.L.	W0*RTHO/DO	81.855	
AVERAGE	W4*RT4/P3	6.7319	
B.F.S.L.	T5D/THO	1801.0	
U POINT	TRIM	110.1	
B.F.S.L.	T7/THO	1460.1	
B.F.S.L.	EFF(O3)	0.79870	
B.F.S.L.	PS3/PTO	12.0575	
U POINT	T7 SPREAD	63.0	

N1 REF = 95.43 %
REF T5 = 607.1 DEGREES C.

N2 REF = 91.13 %
NOZZLE CLASS = -1

SUMMARY PWC83021 - 11-03-2025 / 12:36:31

MODEL	ENGINE	CELL	DATE	BARO	AV.TF
JT15D-5	JA0269		2025/03/11	14.34	71.

LHV	SG	TSG	FNCOR
18809.	.809	71.	1.034

PERFORMANCE DATA

REFERENCE THRUST - 2900. LBS

PARAMETER	ACTUAL	PARAMETER	ACTUAL
N1/RTHO	15172.9	SFC @ 2900. LBS	.520
N2/RTHO	29852.7	SFC @	
T5/THO	1597.6	SFC @	

Work Order# 27377

T.S.N.: 3708.42 T.S.O.: 0.0
C.S.N.: 3531 C.S.O.: 0

Turbine Vane Ring Areas: HT: 39.15 LT: 41.35

Airworthiness Directive Status: None due at time of overhaul.

Pratt & Whitney Service Bulletins Accomplished: 7617, 7625R1

Manufacturer Service Bulletins Accomplished: JFC118-31-73-25

Corrected Engine Performance

Thrust	N1% / RPM	Nozzle Class	N2% / RPM	T5 Trim	Build Spec	High Rotor	High Rotor	Trim Data Weight Location	Low Rotor
2900	95.4/15173	-1	91.13/29853	27.4	713	FA28 FF31	RA28 RF31		

Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks	Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks
Hub - L.C.	3037911	A00044X1	3708.42	3531		Blades - H.T.	3055021-01	NSN	N/A	N/A	
Hub - Booster	3038312	A0004709	3708.42	3531		Disk Stage 2, L.T.	3022212	A00058HP	3708.42	3531	
Impeller	3040939	A0003KYC	3708.42	3531		Disk Stage 3, L.T.	3041593	A00056XN	3708.42	3531	
Disk - H.T.	3036411	A0004X06	3708.42	3531							

LOW COMPRESSOR BLADE INSTALLATION

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
3052470-01	30D908	3052470-01	30D903	3052470-01	30D903	3052470-01	31D191
3052470-01	30D945	3052470-01	31D455	3052470-01	31D455	3052470-01	31D471
3052470-01	31D459	3052470-01	31D444	3052470-01	31D444	3052470-01	30D975
3052470-01	30D849	3052470-01	31D014	3052470-01	31D014	3052470-01	31D457
3052470-01	31D473	3052470-01	31D432	3052470-01	31D432	3052470-01	30D927
3052470-01	31D462	3052470-01	31D002	3052470-01	31D002	3052470-01	31D115
3052470-01	30D761						

ACCESSORY INSTALLATION

Name	P/N	S/N	T.S.O	Remarks	Name	P/N	S/N	T.S.O.	Remarks
Anti-Ice Valve	10018200	1777	0.0		Hydromech FCU	710155-10	F50436	0.0	
Bleed Valve Actuator	766400-4	F46248	0.0		Motive Flow Valve	N/A	N/A	N/A	
BVC Wiring Harness	3052134-01	AA12683	0.0		N1 Sensor	3100335-01	B840	0.0	
Electronic Bleed Control	780933-6-012	08068437	N/A	REPLACED	N2 Sensor (2)	3032997	F133/F122	0.0	
Exciter	N/A	N/A	N/A		Oil Cooler	D2397-10A	M26514	0.0	
Exciter	N/A	N/A	N/A		Oil Filter	7578659AM	N/A	0.0	REPLACED
Fuel Pump	710501-3	1855	0.0		Oil Pump Assy	3104289-01	2A224	0.0	
Fuel Surge Accumulator	N/A	N/A	N/A		Shut off Valve	25950-2	1154	0.0	

Authorized Signature

Date

13 MAR 25