

Pratt & Whitney Canada Engine JT15D-5 S/N: PCE-JA0639
TT: 3644.8 TC: 3073 TSO: 0.0 CSO: 0 Build Spec: 1220

Engine overhauled. Disassembled, cleaned, inspected, repaired and reassembled in accordance with Pratt & Whitney Canada JT15D-5/5R Overhaul Manual P/N 3033443, Revision 36 dated August 14, 2023. AD's 91-01-03 FCU Leak Check previously complied with 28-Apr-05 and 2008-24-10 HMU Air Delivery Tube Replacement previously complied with 2-Mar-09. For details of disks and accessories installed see Logbook Data Sheet dated 27-Jun-24. Engine passed test cell run and preserved per Pratt & Whitney Canada JT15D-5/5R Overhaul Manual P/N 3033443, Revision 36 dated August 14, 2023.
(Note: Exhaust Nozzle Class -11 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. 26471 Date 11-July-24

Daniel A. Newberg
(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_FPD_BS713_WV_10
FINAL ACCEPTANCE DATA ANALYSIS - REGULAR CALIBRATION
ENGINE: JA0639 BUILD: 1
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	CCD	
B.F.S.L.	N1	15318.5	0.99617	BASED ON 5 POINTS
B.F.S.L.	N1	15324.275	0.99850	BASED ON 4 POINTS
				CONDITION NO. 4 REMOVED
B.F.S.L.	N2	29928.5		
B.F.S.L.	T5	1602.4		
CURVE FIT	SFC @ 2900	0.540		
AVERAGE	DELO	0.97657		
AVERAGE	THEO	1.04257		
B.F.S.L.	W4*RTHO/DO	81.855		
AVERAGE	W4*RT4/P3	7.0055		
B.F.S.L.	T5D/THO	1801.3		
U POINT	TRIM	115.5		
B.F.S.L.	T7/THO	1465.3		
B.F.S.L.	EFF (03)	0.79018		
B.F.S.L.	P33/PTD	12.0719		
U POINT	T7 SPREAD	45.0		

N1 REF = 96.38 ° N2 REF = 91.36 °
REF T5 = 611.9 DEGREES C. NOZZLE CLASS = -11

SUMMARY PWC83021 - 24-05-2024 / 09:54:39

MODEL	ENGINE	CELL	DATE	BAFO	AV.TF
JT15D-5	JA0639		2024/05/24	14.35	87.
LHV	SG	TSG	FNCOR		
18809.	.809	87.	1.034		

PERFORMANCE DATA

REFERENCE THRUST - 2900. LBS

PARAMETER	ACTUAL	PARAMETER	ACTUAL
N1/RTHO	15324.3	SFC @ 2900. LBS	.540
N2/RTHO	29928.5	SFC @	
T5/THO	1602.4	SFC @	

JT15D-5	Engine Serial # PCE-JA0639	T.S.N.: 3644.8	T.S.O.: 0.0
Work Order# 26471		C.S.N.: 3073	C.S.O.: 0
Turbine Vane Ring Areas: HT: 39.42 LT: 40.74 Airworthiness Directive Status: None due at time of overhaul. Pratt & Whitney Service Bulletins Accomplished: 7617, 7625R1 Manufacturer Service Bulletins Accomplished: JFC118-31-73-24			

AVIATICS
ENGINE SUPPORT
836 Texas Court
O'Fallon, MO 63366
636-978-5300
FAA-CRS #OTUR438L

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	96.4/15324.3	-11	91.4/29928.5	28.6	713	FF29		RF29			

Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks	Name	Part Number	Serial Number	Total Hours	Total Cycles	Remarks
Hub - L.C.	3037911	A001MX1F	3644.8	3073		Blades - H.T.	3055021-01	NSN	N/A	N/A	
Hub - Booster	3038312	A001N9DA	3644.8	3073		Disk Stage 2, L.T.	3022212	A001NLHX	3644.8	3073	
Impeller	3040939	A001NYB9	3644.8	3073		Disk Stage 3, L.T.	3041593	A001MPYM	3644.8	3073	
Disk - H.T.	3036411	A001P144	3644.8	3073							

LOW COMPRESSOR BLADE INSTALLATION

Part Number	Serial Number	Part Number	Serial Number	Part number	Serial Number
3054815-01	A00A637	3054815-01	A00A803	3054815-01	56D733
3054815-01	A00A838	3054815-01	A00A651	3054815-01	56D904
3054815-01	56D750	3054815-01	A00A684	3054815-01	A00A671
3054815-01	A00A703	3054815-01	A00A878	3054815-01	A00A652
3054815-01	A00A741	3054815-01	A00A647	3054815-01	A00A744
3054815-01	A00A656	3054815-01	A00A680	3054815-01	A00A654
3054815-01	A00A848				

ACCESSORY INSTALLATION

Name	P/N	S/N	T.S.O.	Remarks	Name	P/N	S/N	T.S.O.	Remarks
Anti-Ice Valve	10018200	3377	0.0		Hydromech FCU	790155-9	F1330	0.0	
Bleed Valve Actuator	766400-4	F38520	0.0		Motive Flow Valve	N/A	N/A	N/A	
BVC Wiring Harness	3103296-01	1R332	0.0		N1 Sensor	3100335-01	A474	0.0	
Electronic Bleed Control	780933-3-009	88041393	N/A		N2 Sensor (2)	3032997	A568/A534	0.0	
Exciter	N/A	N/A	N/A		Oil Cooler	14438-000	336	0.0	
Exciter	N/A	N/A	N/A		Oil Filter	3029315	N/A	0.0	
Fuel Pump	710501-2	0091	0.0		Oil Pump Assy	3104289-01	44A702	0.0	
Fuel Surge Accumulator	N/A	N/A	N/A		Shut off Valve	25950-2	9959534047	0.0	

Authorized Signature CA Sheff Date 27 Jun 24