

MODEL NO. FJ33-5A
PART NO. 79400-206
SERIAL NO. 397300

DO NOT ADD OIL UNLESS REQUIRED BY INDICATION ON SIGHT GLASS TO ENSURE OIL CONSUMPTION RECORD IS ACCURATE

ASN: 0585							
Engine Serial: 397300							
Flight #	Hobbs Hrs	Flight Hrs	Oil Added (oz.)	Oil Type	Consumption Rate = Oil added/Flt Hrs.	Checked/Service By	Date (MM/DD/YYYY)
Initial Servicing	0	0	83	Mobil Jet II	NA	Production Line Technician	09/24/24
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DO NOT ADD OIL UNLESS REQUIRED BY INDICATION ON SIGHT GLASS TO ENSURE OIL CONSUMPTION RECORD IS ACCURATE

FJ33-5A TURBOFAN ENGINE
TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 2027665 Rev. A
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 79400-206	Eng S/N: 397300	Eng Bld: 1	Test Date: 07/24/2024
ATRC Ver: CP735.01	Date: 11/15/2023	Thrust Tare: N/A	Test Cell: 05
CFG Ver: CP730.00.05.00	Date: 05/01/2021	Pc1: 20.0189	Oil Type: MOBILE JET II
Acq Ver: CP318.04	Date: 02/07/2019	Pc2: 2.0189	Exh Noz: TL-241643
Inlet: TL-247075	Inlet Cd: 0.995	Inlet Dia: 16.515	SPLHV: 18400
Fuel Type: OG TANK 4	Spec Grav: 0.7978	Temp Slope: 0.00040000	LHV: 18609
Dir: FJ33-5A-206_CP730/240724161359			

VIBRATION SURVEY (PEAK LEVELS)

Parameter	Actual	Max Allowable	Deviation
Max 1E HP radial vib	0.83 ips 48.614 krpm	1.10	0.00
Max 1E LP radial vib	0.09 ips 5.394 krpm	0.25	0.00

Engineering

Paul H. Z...

Date:

07/25/24



FJ33-5A TURBOFAN ENGINE
TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 2027665 Rev. A
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 79400-206	Eng S/N: 397300	Eng Bld: 1	Test Date: 07/24/2024
ATRC Ver: CP735.01	Date: 11/15/2023	Thrust Tare: 6.872	Test Cell: 05
CFG Ver: CP730.00.05.00	Date: 05/01/2021	Pc1: 20.0189	Oil Type: MOBILE JET II
Acq Ver: CP318.04	Date: 02/07/2019	Pc2: 2.0189	Exh Noz: TL-241643
Inlet: TL-247075	Inlet Cd: 0.995	Inlet Dia: 16.515	SPLHV: 18400
Fuel Type: OG TANK 4	Spec Grav: 0.7978	Temp Slope: 0.00040000	LHV: 18609
Dir: FJ33-5A-206_CP730/240724161359			

Component Checks with Engine Running (Ground Idle)

Component	Measurement	Allowable	Deviation
Fuel Filter DeltaP Switch	3.1 volts	2.0 to 4.0	0.0
Oil Filter DeltaP Switch	3.1 volts	2.0 to 4.0	0.0
Oil Debris Sensor #1	3.8 volts	2.0 to 4.0	0.0
Oil Debris Sensor #2	3.8 volts	2.0 to 4.0	0.0

Engineering



Date: 07/25/24



FJ33-5A TURBOFAN ENGINE
TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 2027665 Rev. A
WILLIAMS INTERNATIONAL CO., L.L.C.

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Dir: FJ33-5A-206_CP730/240724161359			

TRIM SUMMARY

N1 Trim Value 289
Takeoff N1 Trim Spd (SLS, 59F Dry Day, Unin) 21624 rpm

PERFORMANCE @ TAKEOFF TRIM SPEED (Referred to SLS, 59F dry day, Uninstalled, 14 deg Vectored Nozzle)

Parameter	Actual	Allowable	Deviation
FN	1836 lbf	1825 (min)	0
		1894 (max)	
ITT	1835 R	1875 (max)	0
N2	49082 rpm	48728 (min, Figure A8)	0
		49692 (max)	

PERFORMANCE @ 1814 LBF RATED THRUST (Referred to SLS, 59F dry day, Uninstalled, 14 deg Vectored Nozzle)

Parameter	Actual	Allowable	Deviation
SFC	0.491 lbm/hr/lbf	0.510 (max)	0.000

GROUND IDLE THRUST (Referred to SLS, 59F dry day, Uninstalled, 14 deg Vectored Nozzle)

Parameter	Actual	Allowable	Deviation
Thrust	63 lbf	87 (max, Figure A7)	0
N2	26713 rpm	N/A	N/A

ACCELERATION TIME (Flight Idle to 95% Take-off Thrust)

Parameter	Actual	Allowable	Deviation
Accel Time (Std Day)	4.6 sec	5.7 (max, Figure A3)	0.0
Tt2	92.8 F	N/A	N/A
Pt2	12.566 psia	N/A	N/A

MECHANICAL SYSTEMS PERFORMANCE (Steady-State)

Parameter	Actual	Allowable	Deviation
Max Main Oil Temp	204.0 F	275.0 (max)	0.0
Min Main Oil Press	48.2 psig	35.0 (min)	0.0
Max Main Oil Press	74.2 psig	120.0 (max)	0.0
Oil Consumption	<u>0.006</u> gal/hr	0.012 (max)	<u>0</u>
Engine Dry Weight	<u>301.4</u> lb	318.5 (max)	<u>0</u>

Total Engine Run Time 2:39

Total Engine Cycles 13.0

Engineering

Paul J. [Signature]



Date:

07/25/24



Time Between Overhaul (TBO) Card

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT
INSTALLED, OR WITH THE COMPONENT WHEN NOT INSTALLED, REFER TO CHAPTER 5
OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 238771

S/N: 61058

Description: FUEL CONTROL UNIT

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	TIME SINCE OVERHAUL				COMMENTS: Note when part is overhauled, zero out part hours.
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS	
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Time Between Overhaul (TBO) Card

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P/N: 236902

S/N: 50062

Description: PUMP ASSY, LUBE AND SCAVENGE

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	TIME SINCE OVERHAUL				COMMENTS: Note when part is overhauled, zero out part hours.
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS	
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ENGINE MODEL NUMBER: 79400-206

ENGINE SERIAL NUMBER: 397300

A/C SERIAL NUMBER	A/C UNIT NUMBER	A/C REGISTRATION NUMBER	DATE	CITY IDENTIFIER	TOTAL A/C HOURS	TOTAL A/C CYCLES	TOTAL A/C LANDINGS	TOTAL ENGINE HOURS	TOTAL ENGINE CYCLES

MAKE: Cirrus
MODEL: SF50
S/N: 0565
REG. NO: N184AS



Cirrus Aircraft Factory Service Center
Repair Station No. 9B0R988C
114 Cirrus Landing
Alcoa, TN 37701

W/O #: PKTYS30470-11-2024
DATE: 11-24-2024
Flight Time: 15.0
Hobbs: 21.2

HRS SINCE ERHAUL	CYCLES SINCE OVERHAUL

ITEM NUMBER	ITEM
1	
2	
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5	
6	
7	

Entries

- 3 Body worked and painted the RH nose access panel IAW Cirrus SF50 AMM 51-20 and 51-30.
- 4 Minimized dab paint on the LH wing IAW Cirrus SF50 AMM 51-20.
- 5 Applied a new stripe P/N: 12450-XXX-CO/WL-RH and placard P/N: 39602-001 to the RH nose access panel IAW Cirrus SF50 AMM 11-20.
- 6 Cleaned deice boots IAW Cirrus SF50 AMM 12-20.
- 7 Removed and Re-Installed the RH nose access panel for paint purposes IAW Cirrus SF50 AMM 53-30.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station CRS 9B0R988C.

DATE: 11-24-2024

SIGNED

Jared Bostic
Repair Station No. 9B0R988C

WORK ORDER: PKTYS30470-11-2024

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ITEM NUMBER	GENERAL COMMENTS (I.E. REMOVE PART NUMBER, REMOVE SERIAL NUMBERS, SERVICE BULLETIN NUMBERS, REASON FOR REMOVAL)

REPAIR FACILITY _____
WORK PERFORMED BY _____

CERTIFICATE NUMBER _____
CERTIFICATE NUMBER _____

WORKORDER _____
DATE _____

I certify that the above stated maintenance and/or inspection was performed in accordance with the current regulations of the:

- ☐ FEDERAL AVIATION ADMINISTRATION
☐ MINISTRY OF TRANSPORT
☐ OTHER (SPECIFY) _____

and the engine identified above is presently airworthy and approved for return to service.

PAGE _____



Component Life Limited Card

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PN: 111127

S/N: HW81298

DESCRIPTION: DISK, H.P. TURBINE

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	HOURS				CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL	ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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6114 MAY 2023

level: 2



Component Life Limited Card

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PN: 125558

S/N: HW84261

DESCRIPTION: DISK, ROTOR, 2ND LPT

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	HOURS				CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL	ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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6114 MAY 2023

level: 3



Component Life Limited Card

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PN: 79538

S/N: HW84009

DESCRIPTION: DISK, LP TURBINE ROTOR, STAGE 1

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	.DATE	HOURS					CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL		ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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Component Life Limited Card

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PN: 208049

S/N: HW79797

DESCRIPTION: ROTOR, H.P. COMPRESSOR

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	HOURS					CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL		ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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PN: 231565

S/N: HW81589

DESCRIPTION: ROTOR ASSY. IP CPRSR BALANCED

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	HOURS					CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL		ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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6114 MAY 2023

level: 1



Component Life Limited Card

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PN: 79408

S/N: HW83813

DESCRIPTION: ROTOR, FAN

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	HOURS				CYCLES				AUTHORIZED SIGNATURE AND NUMBER
				ENGINE HOURS AT INSTALL	ENGINE HOURS AT REMOVAL	PART HOURS THIS INSTALL	PART HOURS AT REMOVAL	ENGINE CYCLES AT INSTALL	ENGINE CYCLES AT REMOVAL	PART CYCLES THIS INSTALL	PART CYCLES AT REMOVAL	
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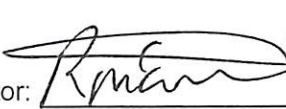
6114 MAY 2023

level: 1



ENGINE SERIAL NUMBER RECORD

P/N: 79400-206

Inspector:  ⁹⁰³⁷ S/N: 397300

Date: JUL 25 2024

P/N	S/N	Description
211076	50594	SEAL ASSY, REAR, FUEL SLINGER
219782	WS00521	HARNESS ASSEMBLY, ENGINE, DUAL CHANNEL F
220593	50494	GEARBOX ASSY, ACCESSORY DRIVE
220693	ABK792	TOWERSHAFT, ACCESSORY DRIVE
221385	50534	VANE, STATOR, IPC STAGE III
221963	20962	SUPPORT, BEARING- 1st REDUCTION BEVEL GE
223875	MFI59476	CASE AND INSERT ASSEMBLY
231565	HW81589	ROTOR ASSY. IP CPRSR BALANCED
232685	50297	HOUSING ASSY, NOZZLE/HEATSHIELD, 1ST LPT
236902	50062	PUMP ASSY, LUBE AND SCAVENGE
238771	61058	FUEL CONTROL UNIT
239261	50069	HOUSING, ASSEMBLY, INTERSTAGE

ENGINE SERIAL NUMBER RECORD

P/N: 79400-206

Inspector:  9037

S/N: 397300

Date: JUL 25 2024

P/N	S/N	Description
114947	20644	COVER ASSY, HP COMPRESSOR
115015	KM-2599	INDICATOR,LATCHING,DEL P,OIL FILTER
115470	20784	SEAL AND FUEL SLINGER ASSY
118925	RX23RY0782	SHAFT, HIGH PRESSURE
119349	20711	VANE ASSEMBLY IP COMPRESSOR STAGE 1 AND
121281	RX23TX0686	SHAFT ASSY, COMPLETE, L.P.
121373	21224	FUEL MANIFOLD ASSEMBLY
121535	PP4721	COOLER, LUBE OIL
123323	JT212180	BEARING, ROLLER, INNER GUIDED
123443	SBC853D0	RUNNER, HP SHAFT SEAL, FRONT
123899	50581	CASE ASSEMBLY DIFFUSER
124611	20782	BEARING AND PINION ASSEMBLY
125558	HW84261	DISK, ROTOR, 2ND LPT
125572	HW81298	ROTOR ASSY, HP TURBINE
126038	ABK523	NUT,RETAINER,AXIAL CPRSR
126113	50719	COMBUSTOR ASSY
126140	20614	LP TURBINE MODULE ASSEMBLY
126270	50379	BEARING, BALL, SPLIT INNER RING - OUTER
126621	CK-2301252	EXCITER,IGNITION
126621	CK2400028	EXCITER,IGNITION
206908	CK2306765	PLUG, IGNITER (IGNITOR)
206908	CK2306793	PLUG, IGNITER (IGNITOR)
208049	HW79797	ROTOR, H.P. COMPRESSOR

ENGINE SERIAL NUMBER RECORD

P/N: 79400-206

 Inspector: *Rmtan*


S/N: 397300

 Date: JUL 25 2024

P/N	S/N	Description
54831	HCS2158816	SENSOR,N2 DUAL MAGNETIC SPEED
57847	GE12493	INDICATOR, DELTA P, FUEL FILTER, ELECTRI
61250	SBC-510D7	SEAL ASSY,RING SEAL
61250	SBC-845D5	SEAL ASSY,RING SEAL
65310	SBC-488D1	SEAL ASSY RING SEAL
69733	YYV846	PICKUP ASSY MAGNETIC-SPEED LP
71593	BG755	GEAR, BEVEL, DAMPED 1ST REDUCTION
77569	EMX000806	ITT PROBE,HARNESS ASSY
79368	JT-201266	BEARING, ASSY, ROLLER, OUTER GUIDED
79368	JT216296	BEARING, ASSY, ROLLER, OUTER GUIDED
79369	JT209079	BEARING, BALL, DEEP GROOVE
79370	JT216464	BEARING, ROLLER, CYL - OD FLANGE
79387	QAF0168	HOUSING ASSY, #1 BEARING
79408	HW83813	ROTOR, FAN
79538	HW84009	DISK, LP TURBINE ROTOR, STAGE 1
79582	20674	HOUSING, CARBON RING SEAL & BEARING RETA
79857	SBC-259D1	RUNNER, SEAL, LP SHAFT, FRONT
110930	BCC-00013359	NOZZLE ASSY, FUEL, FJ33
111127	HW81298	DISK, H.P. TURBINE
113653	SBC-170D6	SEAL ASSY, FACE, CARBON
113762	AXT0104367	PT2 PRESSURE SENSOR DUAL
114944	AXT0205836	TT2 DUAL TEMP SENSOR W/ PRESS PORT
114944	AXT0205914	TT2 DUAL TEMP SENSOR W/ PRESS PORT