



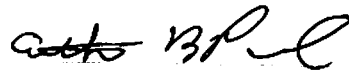
REPAIR STATION RECORD

Master Work Order: 33681Engine P/N: 67000-200Page: 1 of 1Engine S/N: 141633Activity: C3: Check 3Statement of Work Performed

In addition to the manual instructions, maintenance was performed in accordance with the following service bulletins, letters, and AD's (as applicable):

SERVICE BULLETIN / SERVICE LETTER ACTIVITY

<u>WO</u>	<u>Document #</u>
34456	FJ44-72-097: Engine - Split Inner Ring Ball Bear
34773	FJ44-72-107: Engine - 2nd Reduction Pinion Beari
34459	FJ44-72-108: Engine - Accessory Drive Shaft - Re
34460	FJ44-72-110: Engine - Dampener Bracket Assembly
34464	FJ44-72-124: Engine - HP Turbine Blades - Replac
34602	FJ44-73-044: Engine Fuel and Control - Fuel Deli
34467	FJ44-77-013: Engine Indicating - FADEC Engine Ha
34446	SL44-72-306: LP-Rear Brg Seal Retain-Replace
34452	SL44-72-318: Engine - 1st LP Turbine Nozzle - Re
34449	SL44-72-327: Engine - Identification Plate - Ins
34450	SL44-72-382: Engine - Bleed Valve Shaft - Replac
34455	SL44-72-429: Engine - 1st Reduction Bevel Gear B

FAA Repairman: 

(Certificate No. WI5R335J)

Time Between Overhaul (TBO) Card

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT IS INSTALLED
REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR OVERHAUL TIMES

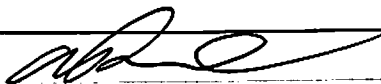


Williams International

P/N: 119149

S/N: CL5APU0119

FUEL DELIVER UNIT (FJ44-3 W/SHIELD)

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	
☐	☒	141633	3/20/15	1985.4	NA		0	 W15R3353
☐	☒			NA				
☐	☒			NA				
☐	☒			NA				
☐	☒			NA				
☐	☒			NA				
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☐	☒			NA				
☐	☒			NA				
☐	☒			NA				
☐	☒			NA				
☐	☒			NA				

FJ44-3A TURBOFAN ENGINE
ACCEPTANCE TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 73332 Rev. C
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 67000-200	Eng S/N: 141633	Eng Bld: rev 3	Test Date: 03/24/2015
ATRC Ver: CP362.01	Date: 1/2/13	Thrust Tare: -1	Test Cell: B08
CFG Ver: CP354.00.B08.00	Date: 12/17/2009	Pc1: 1.9960	Oil Type: Mobil Jet II
Acq Ver: CP318.01	Date: 05/08/2009	Pc2: 2.0450	Exh Noz: TL-99958 s/n 004
Inlet: TL-99999	Inlet Cd: 0.933	Inlet Dia: 20.644	SPLHV: 18400
Fuel Type: Tank 8 JET A	Spec Grav: 0.8145	Temp Slope: 0.00040000	LHV: 18505
Dir: FJ44-3A CP354/150324164200			

N1 TRIM

N1 Trim Increments (-10 rpm/incr.) 7 incr.
N1 Trim Speed (SLS, 79F Dry Day, Uninst) 17724 rpm

ITT TRIM

ITT Trim Increments (2.5 Deg. R/incr.) 0 incr.
Trimmed ITT 1935 Deg. R

PERFORMANCE AT N1 TRIM SPEED (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Allowable	Deviation
Referred FN	2868 lbf	2866 (min)	0
Referred ITT	1935 R	2907 (max)	
Referred N2	40414 rpm	1970 (max)	0
		N/A	N/A

PERFORMANCE AT RATED THRUST (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Allowable	Deviation
Referred SFC	0.506 lbm/hr/lbf	0.510 (max)	0.000

GROUND IDLE THRUST (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Max Allowable	Deviation
Referred FN	143 lbf	166 (max)	0
Referred N2	32891 rpm	N/A	N/A

ACCELERATION TIME (Flight Idle to 95% Rated Thrust)

Parameter	Actual	Max Allowable	Deviation
Time (Corr. to STD)	4.4 seconds	5.1	0.0
TT2	34.0 F	N/A	N/A
PT2	14.324 PSIA	N/A	N/A

MECHANICAL SYSTEMS PERFORMANCE (Steady-State)

Parameter	Actual	Allowable	Deviation
Max Main Oil Temp	145.5 F	275.0	0.0
Min Main Oil Press	46.9 psig	35.0	0.0
Max Main Oil Press	81.1 psig	90.0	0.0

Parameter	Actual	Allowable	Deviation
Oil Consumption	<u>100.2</u> gal/hr	0.023 (max)	<u>0</u>
Engine Dry Weight	<u> </u> lb	518.5 (max)	<u> </u>

Total Engine Run Time 1985.4

Total Engine Cycles 2055.0

Engineering Pat Ruan Date: 3/26/15

FJ44-3A TURBOFAN ENGINE
ACCEPTANCE TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 73332 Rev. C
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 67000-200
ATRC Ver: CP362.01
CFG Ver: CP354.00.B08.00
Acq Ver: CP318.01
Inlet: TL-99999
Fuel Type: Tank 8 JET A
Dir: FJ44-3A CP354/150324164200

Eng S/N: 141633
Date: 1/2/13
Date: 12/17/2009
Date: 05/08/2009
Inlet Cd: 0.933
Spec Grav: 0.8145

Eng Bld: rev 3
Thrust Tare: -1
Pc1: 1.9960
Pc2: 2.0450
Inlet Dia: 20.644
Temp Slope: 0.00040000

Test Date: 03/24/2015
Test Cell: B08
Oil Type: Mobil Jet II
Exh Noz: TL-99958 s/n 004
SPLHV: 18400
LHV: 18505

Data Points

PARAMETER	DATA					
	2	3	4	5	6	7
Data Point Number	26.18	82.19	88.07	92.96	96.92	100.10
Percent N1TO	17.55	37.01	40.50	43.95	47.16	66.16
Power Lever Angle	4695	14749	15805	16683	17396	17966
Referred N1 Speed	22891	37597	38600	39408	40095	40640
Referred N2 Speed	142.9	1743.3	2093.9	2421.3	2726.6	2971.5
Referred Thrust	136.2	872.5	1045.7	1208.6	1372.7	1514.2
Referred Fuel Flow	0.954	0.501	0.499	0.499	0.503	0.510
Referred SFC	1201	1700	1782	1852	1908	1952
Referred ITT (R)	15.1	56.1	61.2	65.5	69.3	72.0
Referred Airflow	2.45	12.28	14.25	16.13	17.88	19.31
Overall Press Ratio	1.02912	1.03220	1.03334	1.03395	1.03406	1.03485
Reynolds Number Index	0.00239	0.00238	0.00236	0.00235	0.00231	0.00232
Specific Humidity	0.92163	0.91855	0.91760	0.91696	0.91675	0.91618
Theta Referred to 79 F	0.97474	0.97361	0.97344	0.97318	0.97299	0.97299
Delta	139.3	1697.3	2038.3	2356.3	2653.0	2891.2
Net Thrust (lbf)	126.0	804.2	963.1	1112.4	1262.9	1392.6
Average Fuel Flow (lb/hr)	15.3	56.9	62.1	66.5	70.3	73.1
Air Flow (lbm/sec)	35.2	175.7	203.9	230.7	255.6	276.1
CDP (psia)	4511	14146	15151	15988	16668	17210
N1 Speed (rpm)	22006	36085	37029	37792	38446	38957
N2 Speed (rpm)	36.8	35.1	34.6	34.3	34.2	33.8
Inlet Temperature (F)	45.0	37.8	40.1	39.0	38.4	38.1
Fuel Temperature (F)	20.5	20.3	20.1	20.0	19.6	19.6
Dewpoint (F)	656	1116	1190	1253	1306	1345
Average ITT (F)	0.070	1.033	1.252	1.460	1.659	1.818
Inlet Delta Press. (psia)	14.325	14.308	14.306	14.302	14.299	14.299
Cell Pressure (psia)	110.6	135.4	141.4	143.2	144.7	145.5
Oil Temperature (F)	46.9	75.7	77.1	78.8	80.1	81.1
Oil Pressure (psig)	8.5	16.0	17.6	19.2	20.8	22.1
Oil Tank Pressure (psig)	03/24/15	03/24/15	03/24/15	03/24/15	03/24/15	03/24/15
Date	21:13:53	21:18:44	21:22:42	21:25:54	21:30:15	21:33:39
Time						

FJ44-3A TURBOFAN ENGINE
ACCEPTANCE TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 73332 Rev. C
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 67000-200	Eng S/N: 141633	Eng Bld: rev 3	Test Date: 03/24/2015
ATRC Ver: CP362.01	Date: 1/2/13	Thrust Tare: -1	Test Cell: B08
CFG Ver: CP354.00.B08.00	Date: 12/17/2009	Pc1: 1.9960	Oil Type: Mobil Jet II
Acq Ver: CP318.01	Date: 05/08/2009	Pc2: 2.0450	Exh Noz: TL-99958 s/n 004
Inlet: TL-99999	Inlet Cd: 0.933	Inlet Dia: 20.644	SPLHV: 18400
Fuel Type: Tank 8 JET A	Spec Grav: 0.8145	Temp Slope: 0.00040000	LHV: 18505
Dir: FJ44-3A CP354/150324164200			

VIBRATION SURVEY (PEAK LEVELS)

Parameter	Actual	Max Allowable	Deviation
Max 1E HP rad vib	0.60 ips @ 37.201 krpm	1.10	0.00
Max 1E LP rad vib	0.15 ips @ 13.543 krpm	0.25	0.00

Engineering

Matt Anan

Date:

3/26/15

Component Life Limited Card



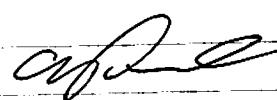
Williams International

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT IS INSTALLED
REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 67093

S/N: HW18290

DISK,HP 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 HOURS AT REMOVAL	
	☒	—	—	—		NA		—		NA		 W15R335J
☐		141064	9/12/14	NA	—	—	1833.3	NA	—	—	1824	
	☒	141633	3/23/15	1985.4		NA		2055		NA		
☐				NA				NA				
	☒					NA				NA		
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☐				NA				NA				

FJ44-3A ENGINE SERIAL NUMBER RECORD

P/N:	67000-200	S/N:	141633	C/L:	E
OM	P/N	C/L	DESCRIPTION	S/N	
010	77500	E	FJ44-3 BASE ENGINE	300763	
020	111867	NC	FADEC	CL8APW1297	
SERIALIZED COMPONENTS OF FJ44-3 BASE ENGINE					
010	72036	D	FAN ROTOR, 16 BLADE, SWEEPBACK	AU21959	
020	69026	E	ROTOR, ASSY IP COMPRESSOR BALANCE	HW29484	
030	45785	F	NUT RETAINER, AXIAL COMPRESSOR	JDM00838	
040	111423	NC	SHAFT ASSY, LP COMPLETE	RX07TK0264	
050	110979	NC	CASE & INSERT ASSY	FRM2374	
055	70563	D	VANE ASSY FAN STATOR	AU20775	
060	68067	NC	VANE, STATOR, IP COMPRESSOR STAGE 3	AU20717	
065	66948	A	VANE ASSY, IP COMPRESSOR STAGE 1&2	AU20735	
080	57657	A	#1 CARBON SEAL	TX29W03	
085	78639	B	#1 CARBON SEAL RUNNER	TX76W50	
090	67305	B	HOUSING, BEARING #1 MACH/ASSY	AU21181	
100	56172	D	#1 BALL BEARING, SPLIT INNER RING	MW2316	
110	78301	B	#4 BEARING, ROLLER OUTER RACE	JT78754	
111	78301	B	#1.5 BEARING, ROLLER OUTER RACE	JT78721	
115	50817	C	NOZZLE ASSY, FUEL	BCC1AUR0972	
120	66912	F	HSG ASSY, INTERSTAGE	AU33757	
130	54879	E	COVER, OIL TANK	WL21366	
140	50349	B	1ST RED. BEVEL GEAR	BG4447	
150	76166	NC	SHAFT, ACCESSORY DRIVE	GG666	
160	78302	B	BRG, ROLLER - 1ST RDCN BVL GEAR	JT79410	
170	78321	A	BRG, BALL - 1ST RDCN BVL GEAR	JT78561	
180	55663	J	SUPPORT, BRG, 1ST RDCN BVL GEAR	AU21163	
190	56278	B	1ST RED. PINION GEAR	BG2578	
200	64711	C	SHAFT, HIGH PRESSURE	RX07RT1878	

FJ44-3A ENGINE SERIAL NUMBER RECORD

P/N:	67000-200	S/N:	141633	C/L:	E
COM	P/N	C/L	DESCRIPTION	S/N	
210	78640	B	#2 CARBON SEAL FACE RUNNER	TX87W45	
220	55684	A	#2 BEARING HOUSING	JDM00606	
230	55666	A	#2 BEARING	MW3464	
240	68937	NC	#2 CARBON SEAL	TX14Y33	
250	66055	D	ROTOR, HP COMPRESSOR	HW29996	
260	69885	A	COVER ASSY, HP COMPRESSOR	AU21114	
270	69147	NC	FUEL MANIFOLD & SEAL ASSY	AU21361	
280	55608	F	SEAL & FUEL SLINGER ASSY	AU21293	
281	57882	B	BALANCE PISTON	MX20032	
290	75327	B	DIFFUSER CASE ASSY	AU20980	
310	75406	NC	NOZZLE & PRI. PLATE ASSY, HP TURB.	AU20994	
320	73458	F	ROTOR ASSY, HP TURBINE	HW29567	
321	67093	F	DISK, HP TURBINE	HW29567	
368	59853	A	#3 BRG, ROLLER (HP SHAFT)	FT5334	
380	54963	A	#3 CARBON SEAL HOUSING	ADM001247	
390	64771	A	#3 CARBON SEAL	TX63W61	
395	45075	C	#4 CARBON SEAL, FWD	TX74W33	
396	45075	C	#4 CARBON SEAL, AFT	TX75W97	
400	72165	C	NOZZLE, 1ST LP TURBINE	AU20976	
410	72038	H	BALANCE ASSY, LP TURBINE ROTOR	AU21018	
411	72037	D	DISK, 1ST LP ROTOR	HW28998	
551	66993	F	DISK, 2ND LP ROTOR	HW29059	
554	48639	D	#4 BEARING - INNER RACE	FT4203	
560	73610	D	HSG ASSY NOZZLE, 2ND LP TURBINE	AU21219	
570	78823	A	GEARBOX ASSY, ACCESS DRIVE	AU20450	
610	68032	F	IGNITOR	CK0801287	
611	68032	F	IGNITOR	CK0801620	

FJ44-3A ENGINE SERIAL NUMBER RECORD

P/N:	67000-200	S/N:	141633	C/L:	E
CM	P/N	C/L	DESCRIPTION	S/N	
620	73489	NC	EXCITER, IGNITION	BL17662	
621	73489	NC	EXCITER, IGNITION	BL17713	
640	77697	NC	FUEL DELIVERY UNIT	CL8ATW0178	
650	57847	C	INDICATOR, FUEL FILTER, ELECT.	GE3813	
660	110590	A	PUMP ASSY, LUBE & SCAV	MX20315	
670	110718	A	COOLER, LUBE OIL	PP0253	
680	62141	NC	ITT PROBE ASSY #1	YYF020491	
681	62141	NC	ITT PROBE ASSY #2	YYF020492	
682	62141	NC	ITT PROBE ASSY #3	YYF020493	
710	62141	NC	ITT PROBE ASSY #4	YYF020494	
711	62141	NC	ITT PROBE ASSY #5	YYF020495	
712	62141	NC	ITT PROBE ASSY #6	YYF020496	
722	75378	B	ITT FLIGHT HARNESS	YYF001418	
730	79646	NC	SENSOR, TT2/PT2	GST4171	
740	57355	C	SENSOR, SPEED, N1 DUAL MAGN	MD0118588	
750	54831	G	SENSOR, SPEED, N2 DUAL MAGN	MD0119226	
760	110753	NC	ITT / N1 TRIM BOX	SPA1293	



1.Airworthiness Directives Incorporated

2. Service Bulletins Basic To Model/Serial No.

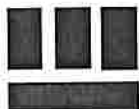
MODEL FJ44-3A	SERIAL NO. 141633	VERIFIED BY <i>B. C. Fairchild</i>	DATE <i>10-23-08</i>
DATE 10/23/2008	APPROVED BY <i>B. C. Fairchild</i>	DATE <i>10-23-08</i>	

1.AD'S

2.SERVICE BULLETIN'S

No airworthiness directives or service bulletin's applicable as of	10/23/2008
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[illegible]



WILLIAMS INTERNATIONAL

2280 W. MAPLE RD., P.O. BOX 200, WALLED LAKE, MI 48390-200 USA

CERTIFICATION OF CONFORMANCE

Williams International (WI) certifies that the engine identified below by part number, model number and serial number has successfully completed acceptance testing in accordance with ATP 73332. W.I. Also certifies that this engine conforms to the FAA type certificate and type certificate data sheet, with exceptions noted below and is in a condition for safe operation in accordance with the published operational limits.

Part Number: 67000-200 Serial Number: 141633

Item Description: Turbo-Fan Engine

Model number: FJ44-3A

FAA Type Cert No: E3GL

Exceptions: NONE

Authorized Signature

Date:

10-23-18

FJ44-3A TURBOFAN ENGINE
ACCEPTANCE TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 73332 Rev B
WILLIAMS INTERNATIONAL CO., L.L.C.

Eng P/N: 67000-200	Eng S/N: 141633	Eng Bld: 1	Test Date: 10/22/08
Prog Ver: CP275.02	Date: 09/16/05	Thrust Tare: 5.0	Test Cell: 05
Acq Ver: CP169.03	Date: 06/15/00	Pc1: 2.0010	Oil Type: MOBIL JET2
ATP Ver: CP333.00	Date: 11/10/05	Pc2: 2.0230	Exh Noz: TL99958
ATP Doc: 77438 Rev NC	Inlet Sn: I 3603	Inlet Cd: 0.933	Inlet Dia: 20.64
Fuel Type: JETA	LHV: 18588	Spec Grav: 0.7983	Temp Slope: 0.00040800
			Dir: 0810222008

N1 TRIM

Trim Increments (-10 rpm/incr.) 6 incr.
N1 Trim Speed (SLS, 79F Dry Day, Uninst) 17734 rpm

PERFORMANCE @ N1 TRIM SPEED (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Allowable	Deviation
Referred FN	2870 lbf	2866 (min)	0
		2907 (max)	0
Referred ITT	1941 R	1970 (max)	0
Referred N2	40267 rpm	N/A	N/A

PERFORMANCE @ 2820 lbf RATED THRUST (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Allowable	Deviation
Referred SFC	0.504 lbm/hr/lbf	0.510 (max)	0.000

GROUND IDLE THRUST (Referred to Sea Level Static, 79F Dry Day, Uninstalled)

Parameter	Actual	Max Allowable	Deviation
Referred FN	137 lbf	164	0
Referred N2	22809 rpm	N/A	N/A

ACCELERATION TIME (FI to 95% Rated Thrust)

Parameter	Actual	Max Allowable	Deviation
Time (Corr. to STD)	4.8 seconds	5.6	0.0
TT2	40.5 F	N/A	N/A
PT2	12.717 psia	N/A	N/A

MECHANICAL SYSTEMS PERFORMANCE (Steady-State)

Parameter	Actual	Allowable	Deviation
Max Main Oil Temp	162.7 F	275.0	0.0
Min Main Oil Press	38.2 psig	35.0	0.0
Max Main Oil Press	77.7 psig	90.0	0.0

Parameter	Actual	Allowable	Deviation
Oil Consumption	<u>010</u> gal/hr	0.023 (max)	<u>0.0</u>
Engine Dry Weight	<u>514.5</u> lb	518.5 (max)	<u>0.0</u>

Total Engine Run Time

Total Engine Cycles

Engineering

2:42
22.0
[Signature]

ME
8613

Date: 10/23/08

FJ44-3A TURBOFAN ENGINE
ACCEPTANCE TEST PERFORMANCE SUMMARY
IN ACCORDANCE WITH DOCUMENT 73332 Rev B
WILLIAMS INTERNATIONAL CO.

Eng P/N: 67000-200	Eng S/N: 141633	Eng Bld: 1	Test Date: 10/22/08
Prog Ver: CP275.02	Date: 09/16/05	Thrust Tare: 5.0	Test Cell: C5
Acq Ver: CP169.03	Date: 06/15/00	Pc1: 2.0010	Oil Type: MOEIL JET2
ATP Ver: CP333.00	Date: 11/10/05	Pc2: 2.0230	Exh Noz: TL99958
ATP Doc: 77438 Rev NC	Inlet Sn: I 3603	Inlet Cd: 0.933	Inlet Dia: 20.64
Fuel Type: JETA	LHV: 18588	Spec Grav: 0.7983	Temp Slope: 0.00040800

VIBRATION SURVEY (PEAK LEVELS) FROM VIB TEST DIRECTORY: 0810230019_FJ44-3A_vib

PARAMETER	ACTUAL		MAX ALLOWABLE	DEVIATION
Max 1E HP rad vib	0.27 IPS	37278 RPM	1.10	0.00
Max 1E LP rad vib	0.08 IPS	18007 RPM	0.25	0.00
 Max 1/2LP INTERSTAGE** (10200 - 13200 N1 RPM)	 0.01 IPS	 13139 RPM	 0.13	 0.00
 Max 1/2LP REAR MOUNT** (10200 - 13200 N1 RPM)	 0.02 IPS	 12357 RPM	 0.18	 0.00
 Max 1/2LP START VIB** (1500 - 2700 N1 RPM)	 0.06 IPS	 176 RPM	 0.20	 0.00

** (REF ED W-8576)

ENGINEERING




Date

10/23/08

Component Life Limited Card



Williams International

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT IS INSTALLED
REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 72036

S/N: AU21959

ROTOR,FAN,16 BLADE,SWEPT BACK

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	
☐	☒	141633	10/23/08	0		NA		0		NA		
☐	☒			NA				NA				
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		

Component Life Limited Card



Williams International

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT IS INSTALLED
REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 69026 S/N: HW29484
ROTOR ASSY, IP CPRSR BALANCE

REMOVED	INSTALLED	ENGINE SERIAL NUMBER	DATE	<u>HOURS</u>				<u>CYCLES</u>				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	
	☒	141633	10/23/08	0 NA		NA		0 NA		NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		
☐				NA				NA				
	☒					NA				NA		

Component Life Limited Card



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P/N: 66055

S/N: HW29996

ROTOR,HP 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	
☐	☒	141633	10/23/08	0		NA		0		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		

Component Life Limited Card



Williams International

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REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 72037

S/N: HW28998

DISK,LP TURB ROTOR,STG 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 HOURS AT REMOVAL	
	☒	141633	10/23/08	0		NA			0		NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				
	☒					NA					NA		
☐	☐			NA					NA				

Time Between Overhaul (TBO) Card

THIS LOG MUST REMAIN WITH THE ENGINE LOGBOOK IN WHICH THE COMPONENT IS INSTALLED
REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR OVERHAUL TIMES



Williams International

P/N: 110590 S/N: MX20315
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	
☐	☒	141633	10/23/08	0 NA		NA	0	
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		
☐	☒			NA		NA		

Component Life Limited Card



Williams International

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REFER TO CHAPTER 5 OF THE APPROPRIATE MAINTENANCE MANUAL FOR COMPONENT LIFE LIMITS

P/N: 66993

S/N: HW29059

DISC, 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 HOURS AT REMOVAL	
☐	☒	141633	10/23/08	0		NA		0		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		
☐	☒			NA		NA		NA		NA		