

PARTS CHANGE RECORD

ENGINE MODEL: TFE731-3R-1D SERIAL NUMBER: P83105

TSN: 7068.4

CSN: 4118

NOMENCLATURE	PART NUMBER OFF	SERIAL NUMBER OFF	PART NUMBER ON	SERIAL NUMBER ON	
HP SHROUD SEGMENTS	3073374-2	NSN (QTY. 4)	3073774-7	NSN (QTY. 4)	NEW
FUEL MANIFOLD	3073522-2	2-522	3073522-2	00-309	O/H
ENGINE INLET HOUSING	3072262-5	801599930	3072262-13	0-01599-500	O/H
FAN SUPPORT ASSY	3072160-1	8P-21281	3077082-1	1P-29317	RWK
#1 SEAL CARRIER	3071966-1	NSN	3077122-1	NSN	RWK
#1 SEAL RUNNER	3071980-7	NSN	3075657-1	002141806535	NEW
#1 CARBON SEAL	3072933-7	N/A	3075675-2	001936802799	NEW
#1 AXIAL RETAINER	N/A	10-46130	3075658-2	NSN	NEW
#1 SEAL SPACER	3071984	N/A	3075677-2	NSN	NEW
DAMPER RING	3072463-2	NSN	3072463-2	NSN	NEW
#3 AXIAL RETAINER	N/A	N/A	3075684-2	NSN	NEW
#3 SEAL RUNNER	3075516-1	NSN	3075683-1	000304501710	NEW
#3 SPACER	N/A	N/A	3075685-2	NSN	NEW
#3 SEAL ADAPTER	N/A	N/A	3075696-1	NSN	NEW
#3 CARBON SEAL	3074032-1	92-738	3075719-1	000515830869	NEW
IGNITER 6 O'CLOCK	3074541-1	F1028	3074541-1	00089298	NEW
IGNITER 7 O'CLOCK	3074541-1	F0632	3074541-1	00089095	NEW
TRANSFER G. B. COVER	3072970-2	NSN	3075599-1	N/A	NEW
OIL FILTER BY-PASS	3070246-4	N/A	3070246-4	N/A	NEW
FUEL FILTER	897513-1	NSN	897513-1	NSN	NEW
OIL FILTER	3070945-1	N/A	3070945-1	N/A	NEW
GARLOCK SEALS	3020052-8	NSN (QTY. 2)	3020052-8	NSN (QTY. 2)	NEW
SIDE COOLER PANEL BRACKET	3071783-1	N/A	3071783-1	NSN	NEW
IGNITER LEAD GROMET	3071613-2	NSN	3071613-2	NSN	NEW



SERVICE RECORD

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MPI INTERVAL 1400 HR

PERFORMED FIVE-POINT CALIBRATION RUN AND VIBRATION SURVEY. SOAP SAMPLE SUBMITTED. ENGINE REMOVED FROM #1 POSITION OF N45H, A/C S/N 465-002 AT A/C T.T. 7068.4 HRS. LANDINGS 4118.

THE FOLLOWING INSPECTIONS HAVE BEEN ACCOMPLISHED IN ACCORDANCE WITH THE CURRENT TFE731 #72-02-15 MAINTENANCE MANUAL.

150 HR	@ 7068.4	NEXT DUE @ 7218.4	1400 PLENUM	@ 7068.4	NEXT DUE @ 8468.4
300 HR	@ 7068.4	NEXT DUE @ 7368.4	4200 CZI	@ 4173.0	NEXT DUE @ 8373.0
800 HR	@ 7068.4	NEXT DUE @ 7868.4	4200 GB	@ 4173.0	NEXT DUE @ 8373.0
1400 HR MPI	@ 7068.4	NEXT DUE @ 8468.4	4200 FS	@ 4173.0	NEXT DUE @ 8373.0

A4 NOZZLE AREA: 14.075

A5 NOZZLE AREA: 26.066

ALL SERVICE BULLETINS AND AIR WORTHINESS DIRECTIVES ACCOMPLISHED AT THIS TIME ARE LISTED IN THE APPROPRIATE SECTIONS OF THIS LOGBOOK. PARTS REPLACED ARE LISTED ON THE FOLLOWING PAGE. LIFE LIMIT CARDS AND COMPONENT RECORDS WHEN REQUIRED FOR PARTS INSTALLED ARE FOUND IN APPROPRIATE SECTIONS OF THIS LOGBOOK.

ENGINE REINSTALLED IN #1 POSITION OF N45H, 465-002. OIL CHANGED, ENGINE SERVICED WITH EXXON 2380. PERFORMED FIVE POINT CALIBRATION RUN, VIBRATION SURVEY, GROUND RUN AND TRIMMED IN ACCORDDANCE WITH TFE731 LMM #72-02-15. A/C T.T. 7068.4 HRS. LANDINGS 4118.

THIS ENGINE HAS BEEN INSPECTED AND REPAIRED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES AS REQUIRED AND CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO WORK PERFORMED. PERTINENT DETAILS OF THE WORK ACCOMPLISHED ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER NO. E1482

DATE: DECEMBER 13, 2000

PREMIER TURBINES
#14 ARCHVIEW DRIVE
CAHOKIA, ILLINOIS 62206
REPAIR STATION R03R822L

NOTE: S.O.A.P. SAMPLE IS REQUIRED IN 25 HOURS @ 7093.4 TO ESTABLISH A NEW BASELINE.

CYCLES / TIME REMAINING ON LIFE LIMITED PARTS

ENGINE MODEL: TFE731-3R-1D SERIAL NUMBER: P83105

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NOMENCLATURE	PART NUMBER	SERIAL NUMBER	CYCLE LIMITS	TOTAL HOURS	TOTAL CYCLES	CYCLES REMAINING
FAN DRIVESHAFT	3071955-5	8P30277	NO LIMIT	7068.4	4118	NO LIMIT
FAN DISC	3073563-2	960322906948	10000	1485.3	1021	8979
LPC TIE ROD	3073049-1	2P-4401	NO LIMIT	2895.4	1832	NO LIMIT
STG 1 LPC DISC	3072395	7-12112-4225	10000	7068.4	4118	5882
STG 2 LPC DISC	3072396	7-12112-3810	10000	7068.4	4118	5882
STG 3 LPC DISC	3072397	8-12112-1726	10000	7068.4	4118	5882
STG 4 LPC DISC	3072398	7-12112-1718	10000	7068.4	4118	5882
HPC IMPELLER	3073394-1	0-23365-1310	10000	2895.4	1832	8168
HPC SHAFT	3072545-1	8P19695	12000	7068.4	4118	7882
HPT ROTOR SEAL	3072411-1	8-18040-120	10000	7068.4	4118	5882
HPT DISC	3072316	7-12112-1293	7000	7068.4	4118	2882
HPT BLADES	3072450	NSN (QTY. 62)	9000 HOURS	7068.4	4118	1931.6 HOURS
LPT ROTATING SEAL	3072729-1	8P-26292	NO LIMIT	7068.4	4118	NO LIMIT

CYCLES / TIME REMAINING ON LIFE LIMITED PARTS (CONTINUED)

ENGINE MODEL: TFE731-3R-1D SERIAL NUMBER: P83105

TSN: 7068.4

CSN: 4118

NOMENCLATURE	PART NUMBER	SERIAL NUMBER	CYCLE LIMITS	TOTAL HOURS	TOTAL CYCLES	CYCLES REMAINING
STG 1 LPT DISC	3072351-5	5-03229-3199	3000	1633.7	1120	1880
STG 1 LPT BLADES	3072311-2	NSN (QTY. 86)	9000 HOURS	7068.4	4118	1931.6 HOURS
STG 2 LPT DISC	3072542-5	5-03229-2801	3000	1633.7	1120	1880
STG 2 LPT BLADES	3072012-2	NSN (QTY. 84)	9000 HOURS	7068.4	4118	1931.6 HOURS
STG 3 LPT DISC	3072544-3	5-03229-4459	3000	1633.7	1120	1880
STG 3 LPT BLADES	3072014-2	NSN (QTY. 80)	9000 HOURS	7068.4	4118	1931.6 HOURS

TFE731 INSTALLATION OF NOZZLE SEGMENTS

ENGINE MODEL: TFE731-3R-1D

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POSITION	PART NUMBER	EFFECTIVE FLOW AREA
1	3072324-3	.837
2	3072324-3	.836
3	3072324-3	.800
4	3072324-3	.796
5	3072324-3	.795
6	3072324-3	.738
7	3072324-3	.788
8	3072324-3	.787
9	3072324-3	.787
10	3072324-3	.785
11	3072324-3	.783
12	3072324-3	.781
13	3072324-3	.778
14	3072324-3	.770
15	3072324-3	.749
16	3072324-3	.748
17	3072324-4	.736
18	3072324-3	.731
TOTAL AE		14.075

CYCLES / TIME REMAINING ON LIFE LIMITED PARTS (CONTINUED)

ENGINE MODEL: TFE731-3R-1D **SERIAL NUMBER:** P83106

TSN: 7001.5

CSN: 4085

NOMENCLATURE	PART NUMBER	SERIAL NUMBER	CYCLE LIMITS	TOTAL HOURS	TOTAL CYCLES	CYCLES REMAINING
STG 1 LPT DISC	3072351-5	5-03229-3248	3000	1633.7	1117	1883
STG 1 LPT BLADES	3072311-2	NSN (QTY. 86)	9000 HOURS	7001.5	4085	1998.5 HOURS
STG 2 LPT DISC	3072542-5	5-03229-1779	3000	1633.7	1117	1883
STG 2 LPT BLADES	3072012-2	NSN (QTY. 83)	9000 HOURS	7001.5	4085	1998.5 HOURS
STG 2 LPT BLADE	3072012-2	NSN (QTY. 1)	9000 HOURS	0	0	9000 HOURS
STG 3 LPT DISC	3072544-3	3-03229-1937	3000	1633.7	1117	1883
STG 3 LPT BLADES	3072014-2	NSN (QTY. 80)	9000 HOURS	7001.5	4085	1998.5 HOURS

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NOMENCLATURE	PART NUMBER OFF	SERIAL NUMBER OFF	PART NUMBER ON	SERIAL NUMBER ON	
FUEL MANIFOLD	3073522-2	0-104	3073522-2	00-308	O/H
DESWIRL VANE	3072449-4	NSN	3072449-4	NSN	REP
AIR SEAL ROTOR	3071967-1	NSN	3077126-1	NSN	RWK
ENGINE INLET HOUSING	3072262-5	8-01599-416	3072262-13	8-01599-458	O/H
#1 SEAL CARRIER	3071966-1	NSN	3077122-1	NSN	RWK
#1 CARBON SEAL	3075514-1	6-02176-6453	3075675-2	001936802562	NEW
#1 SEAL RUNNER	3071980-7	NSN	3075657-1	002141806409	NEW
#1 AXIAL RETAINER	N/A	N/A	3075658-2	NSN	NEW
#1 SEAL SPACER	3071984	NSN	3075677-2	NSN	NEW
FANSHAFT SUPPORT HOUSING	3072160-1	7P-10020	3077082-1	3P-7772	O/H
DAMPER RING	3072463-2	NSN	3072463-2	NSN	NEW
#3 AXIAL RETAINER	N/A	N/A	3075684-2	NSN	NEW
#3 SEAL RUNNER	3075516-1	N/A	3075683-1	000309501485	NEW
#3 SPACER	N/A	N/A	3075685-1	NSN	NEW
#3 SEAL ADAPTER	N/A	N/A	3075696-1	NSN	NEW
#3 CARBON SEAL	3074032-1	95-1240	3075719-1	980515821947	NEW
IGNITER 6 O'CLOCK	3074541-1	SGA05	3074541-1	00092013	NEW
IGNITER 7 O'CLOCK	3074541-1	SGA09	3074541-1	00089083	NEW
TRANSFER G. B. COVER	3072970-2	NSN	3075599-1	NSN	NEW
FUEL FILTER	897513-1	NSN	897513-1	NSN	NEW
CLOSE OUT PANEL TANGS	3071839-1	NSN (QTY. 2)	3071839-1	NSN (QTY. 2)	NEW
GARLOCK SEALS	3020052-5	NSN (QTY. 2)	3020052-5	NSN (QTY. 2)	NEW
GARLOCK SEALS	3020052-8	NSN (QTY. 2)	3020052-8	NSN (QTY. 2)	NEW
2 ND STG LPT BLADE	3072012-2	NSN (QTY. 1)	3072012-2	NSN (QTY. 1)	NEW

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FAN DRIVESHAFT	3071955-5	5P21456	NO LIMIT	8502.2	5514	NO LIMIT
FAN DISC	3073563-2	960322904775	10000	1484.9	1017	8983
LPC TIE ROD	3073049-1	2P-4396	NO LIMIT	2828.5	1799	NO LIMIT
STG 1 LPC DISC	3072395-1	7-12112-4290	10000	7001.5	4085	5915
STG 2 LPC DISC	3072396-1	7-12112-3043	10000	7001.5	4085	5915
STG 3 LPC DISC	3072397-1	8-12112-1798	10000	7001.5	4085	5915
STG 4 LPC DISC	3072398-1	7-12112-1673	10000	7001.5	4085	5915
HPC IMPELLER	3073394-1	8-23365-3087	10000	10521.6	6383	3617
HPC SHAFT	3072545-1	8P19693	12000	7001.5	4085	7915
HPT ROTOR SEAL	3072411-1	8-18040-136	10000	7001.5	4085	5915
HPT DISC	3072316	7-12112-4077	7000	7001.5	4085	2915
HPT BLADES	3072450-2	NSN (QTY. 62)	9000 HOURS	1484.9	1017	7515.1 HOURS
LPT ROTATING SEAL	3072729-1	8P26268	NO LIMIT	7001.5	4085	NO LIMIT