

## No.2 (R/H) ENGINE TFE 731-3R-1D INFORMATION

<b>Model #</b> <u>TFE 731-3R-1D</u> <b>S/N:</b> <u>P-83259</u> <b>TSN:</b> <u>8154.7</u> <b>CSN:</b> <u>6848</u> <b>Sabreliner 65</b> <b>REG:</b> <u>N65ML</u> <b>S/N:</b> <u>465-69</u>
<b>AD Research:</b> No. 2005-13-07 No sign off found, SB TFE731-72-3682 P/C/W Not Applicable No. 2010-06-11 No sign off found, SB TFE731-72-A3748 P/C/W Not Applicable
<b>Life limited components: SEE LIFE LIMITED COMPONENT TABLE</b>
<b>Inspections / Maintenance were verified: Volume(s) 1 &amp; 2 LH Engine Logbook(s)</b>
<b>150-Hour Routine Periodic Inspection</b> <b>71.006 (710056) No.2 Engine Area Inspection</b> Complied with on <u>2/28/2009</u> , TSN: <u>8037.1</u> CSN: <u>6746</u> by <u>Jay B. Leavenworth</u> (Next Due TSN: <u>8187.1 Hrs</u> ) Time Remaining + <u>32.4</u> Hours <b>71.009 (710013) No.2 Engine SOAP Sample</b> Complied with on <u>7/05/2012</u> , TSN: <u>8154.7</u> CSN: <u>6848</u> by <u>AVMATS</u> (Next Due TSN: <u>8304.7 Hrs</u> ) Time Remaining + <u>150</u> Hours <b>71.004 (790150) No.2 Engine Inspect oil screen &amp; chip detector</b> Complied with on <u>7/05/2012</u> , TSN: <u>8154.7</u> CSN: <u>6848</u> by <u>AVMATS</u> (Next Due TSN: <u>8304.7 Hrs</u> ) Time Remaining + <u>150</u> Hours
<b>300 Hour Routine Periodic Inspection</b> <b>73.007 (730034) Replace No.2 Engine Fuel Filter</b> Complied with on <u>2/28/2009</u> , TSN: <u>8037.1</u> CSN: <u>6746</u> by <u>Jay B. Leavenworth</u> (Next Due TSN: <u>8337.1 Hrs</u> ) Time Remaining + <u>182.4</u> Hours
<b>800 Hour Routine Periodic Inspection</b> <b>74.005 (742022) Inspect No.2 Engine Ignition System &amp; Igniter Plugs</b> Complied with on <u>2/28/2009</u> , TSN: <u>8037.1</u> CSN: <u>6746</u> by <u>Jay B. Leavenworth</u> (Next Due TSN: <u>8837.1 Hrs</u> ) Time Remaining + Hours  Pre SB TFE731-74-3006 (Every 600-800 Hours) Post SB TFE731-74-3006 R1 (Every 1000 - 1500 Hours) <b>C/W on 9/19/1996 TSN: 5301.9 by Garrett Aviation</b>
<b>450- Hour No.2 Engine Oil Replacement</b> Complied with (790004) on <u>9/18/2009</u> , TSN: <u>8087.8</u> , CSN: <u>6781</u> by <u>AVMATS</u> (Next Due TSN: <u>8644.3 Hrs</u> ) Time Remaining + <u>682.4</u> Hours Pre SB TFE731-72-3596 or TFE731-72-3662 (Every 1000-1500 Hours) Post SB TFE731-72-3596 R6 (Every 600 Hours) <b>C/W on 8/30/1999 TSN: 5913.1 by Garrett Aviation Services</b> Post SB TFE731-72-3662 R7 (Every 600 Hours) <b>C/W on 8/28/2009 TSN: 8087.8 by Premier Turbines</b>

\* The indicated Routine Periodic Inspection intervals were created in order to allow routine inspection to be adjusted to closely align with airframe inspection and Major Periodic Inspection intervals.

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Required No.2 Engine (R/H) Inspections (in Hours)					
Type of Inspection	Performed at Engine TT:	Date Complied	Time since Inspection:	Engine Time Due:	Eng. Time Remaining
Major Periodic Inspection ( <b>1,400 hours</b> )	8087.8	8/28/2009	66.9	9487.8	1333.1
Combustion Chamber Plenum Case Periodic Inspection ( <b>1,400 hours</b> )	8087.8	8/28/2009	66.9	9487.8	1333.1
Core Zone Inspection ( <b>4,200 hours</b> )	8087.8	8/28/2009	66.9	12287.8	4133.1
Accessory Gearbox ( <b>4,200 hours</b> )	8087.8	8/28/2009	66.9	12287.8	4133.1
Fan Support ( <b>4,200 hours</b> )	8087.8	8/28/2009	66.9	12287.8	4133.1

Combustion Chamber Plenum Case Periodic Inspection for 2500 interval not to be exceeded at any time.

### **No. 2 Engine (R/H) TFE 731-3R-1D Life Limited Components**

<b>Model #:</b> <u>TFE 731-3R-1D</u>	<b>S/N:</b> <u>P-83259</u>	<b>TSN:</b> <u>8154.7</u>	<b>CSN:</b> <u>6848</u>
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Components	P/N	S/N	Service Life Cycles	Total Cycles Since New	Cycles Remaining
Fan Drive Shaft	3071955-2	1P-19842	<b>Note 1</b>		<b>No Limit</b>
Fan Disc	3073563-2	960322902598	10,000	2,789	7,211
LPC Tie Rod	3073049-1	1P10678	<b>Note 1</b>		<b>No Limit</b>
1 <sup>st</sup> Stage LPC Disc	3072395-1	6-12112-1708	10,000	5,966	4,034
2 <sup>nd</sup> Stage LPC Disc	3072396-1	5-12112-1087	10,000	5,966	4,034
3 <sup>rd</sup> Stage LPC Disc	3072397-1	9-12112-3404	10,000	5,779	4,221
4 <sup>th</sup> Stage LPC Disc	3072398-1	1-03160-620	10,000	6,024	3,976
HPC Radial Impeller	3073398-1*	6-12172-654	10,000	5,641	4,359
HP Turbine Disc	3072316-2	4-12112-1588	7,000	5,296	1,704
1 <sup>st</sup> Stage LPT Disc	3075830-1	08-03229-00935	3,000	67	2,933
2 <sup>nd</sup> Stage LPT Disc	3072542-5	020322903270	3,000	1,301	1,699
3 <sup>rd</sup> Stage LPT Disc	3074096-2	965332200373	7,000	2,789	4,211
LPT Rotating Seal	3072729-1	3P-13786	<b>Note 1</b>		<b>No Limit</b>
HPT Rotor Seal Plate	3072411-1	1-18040-172	10,000	6,848	3,152
HP Shouldered Shaft	3072545-1	1P-18426	12,000	6,848	5,152

**Note1:** These component parts have not had cyclic life limits assigned, but may be subject to failure as a result of undetected abuse and unpredictable contingencies. Therefore, to provide a record of service experience and cycles (partial cycle counting does not apply), a Life Limit Part Log Card must be maintained. If the part is removed, the Life Limit Part Log Card must be updated and stay with that part.

\* HPC Radial Impeller Assembly Part Number. No part number in the component part log.

AD Logbook Research Discrepancies:

1. **AD No. 2005-13-07** (Amendment 39-14143) dated July 27, 2005 - This AD results from a report of an uncontained failure of an LP 2nd stage turbine rotor disc that resulted in an in-flight engine shutdown. We are issuing this AD to prevent LP turbine rotor disk separation, which could result in an uncontained engine failure and damage to the airplane. **No sign off found.**

**Note:** SB TFE731-72-3682 - **P/C/W Not Applicable**

2. **AD No. 2010-06-11** (Amendment 39-16235) dated April 21, 2010 - This AD results from a report of cracks found during a fluorescent penetrant inspection (FPI) of the disc bore. We are issuing this AD to prevent an uncontained failure of a second stage LPCR disc and/or a third stage LPCR disc due to cracks in the bore, which could result in damage to the airplane. **No sign off found.**

**Note:** SB TFE731-72-A3748 - **P/C/W Not Applicable**