

# N13839

## 1970 Piper Turbo Aztec D

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# LH Engine Logbook SMOH | #2 of 2 1991 - 2025

**MSN: 27-4480**



*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*

N13839 SER NO. 27-4480  
LEFT ENGINE LOG  
BOOK NO. 2  
LYC TIO-540-C1A  
SER NO. L-1532-61

THE **adlog**<sup>TM</sup> AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**LEFT**  
**ENGINE**  
**MAINTENANCE**  
**RECORDS**

## ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N13839

Engine Manufacturer Lycoming

Model T10-540-C1A

Serial No. L-1532-61

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) 1500 Hours

If used on multi-engine aircraft:

<input type="checkbox"/> Right	<input checked="" type="checkbox"/> Left
<input type="checkbox"/> Front	<input type="checkbox"/> Rear

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
4/8/91		65.3 HRS	1999.0	changed ENGINE OIL AND FILTER, ADDED 11 QTS AERO Shell 50WT NON-DETERGENT MINERAL OIL Ronald E. Carner AIP 313586855
6-11-91		98.7 HRS	2034.5	changed OIL AND FILTER, ADDED 11 QTS AERO Shell 100W DETRIGENT. cleaned FUEL INJECTOR NOZZLES, All cyl. compression 70+/80 changed Hydraulic FILTER, Replaced TURBO HEAT BLANKETS, ADJUSTED idle mixture AS NECESSARY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED ELAB AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION Ronald E. Carner JA313586855
8/7/91			2045.8	* c/w AD 91-08-07 AMMUC 39-6962 PAR. (4)(1), (3)(1)+(2) INSTALLED AN O2A21380 FITTING Ronald E. Carner AIP 313586855
11/2/91			2078.6	changed Engine OIL AND FILTER, ADDED 11 QTS - AERO Shell 50WT det. cleaned and gapped plugs Retimed MAGNETOS, cleaned ENGINE AIR FILTER Ronald E. Carner AIP 313586855
3/7/92		165 TSO	2100.8	changed Engine OIL AND FILTER, INSPECTED FILTER, ADDED 11 QTS AERO Shell 50WT det. checked compressions all cylinders 75+/80 Ronald E. Carner AIP 313586855
				SUB-TOTALS this page
			2100.8	TOTALS—Carry forward to next page



DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
6/2/92	165.6	2101.4		Cleaned Fuel Injectors, Fuel Screens, Inspected engine controls and exhaust system, checked cylinder compressions - all cylinders 25/80 I certify that this engine has been inspected I/A/W AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION Lance J. Green MP33586855JIT
11/21/92	191.4	2127.2		CHANGED ENGINE OIL AND FILTER - AEROSHELL 15-50W - 11 QTS. CLEANED ENGINE AIR FILTER JSDenton.
7-1-93	218.9	2154.7		I CERTIFY THAT THIS ENGINE HAS BEEN INSP. I/A/W AN ANNUAL INSP & WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION David Rose 1A181918P
7-1-93	218.9	2154.7		CHANGED ENGINE OIL AND FILTER - AEROSHELL 15-50W - 11 QTS - CLEANED ENGINE AIR FILTER JSD
5-7-94	219.8	2155.6		CHANGED ENGINE OIL AND FILTER - AEROSHELL 15-50W - 11 QTS - CLEANED ENGINE AIR FILTER JSDenton
11-25-94	220.5	2156.3		I CERTIFY THAT THIS ENGINE HAS BEEN INSP I/A/W AN ANNUAL INSP & WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION David Rose 1A181908P
11-25-94	220.5	2156.3		CHANGED engine oil + Filter - AeroShell 15-50W - 11 QTS - CLEANED engine Air Filter JSD
				SUB-TOTALS this page
	2156.3	220.5	2156.3	TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	2156.3	220.5	2156.3	TOTALS brought forward from previous page
11-13-95	2185.3	249.5	2185.3	Changed Engine Oil + Filter - Aeroshell 15-50w - 11qts - Cleaned Air Filters <i>gdr</i>
6-12-96	2189.2	253.4	2189.2	I CERTIFY THAT THIS ENGINE HAS BEEN INSP 1/1/1/1 AN ANNUAL INSP & WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION <i>David R. McNeil 1A1819086</i>
6-12-96	2189.2	253.4	2189.2	Changed Engine Oil + Filter - Aeroshell 15-50w - 11qts Clean Air Filter - Fuel Filter <i>gdr</i>
5/10/97	2193.4	257.6	2193.4	A/C out of Service 6/20/96 TO 5/10/97 Periodic
5/10/97	2193.4	257.6	2193.4	ENGINE RUNS (4) during this time
07/01/97	2210.4	274.6	2210.4	A/C Removed from Service
08/30/06	2213.8	278.0	2213.8	UPDATE HAS <i>Walter M. Myers 1A1570269</i>

ENGINE MODEL  
TIO-540-C1A  
ENGINE SN (L): L-1532-61  
REG NO: 13839  
WORK ORDER: 11978



**Mangon Aircraft, Inc.**  
501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848

DATE: 11/1/2007  
AC TSN: 2213.8  
ENG TT (L): 2213.8  
TSMOH (L): 278  
TACH: 2213.8

#### Left Engine Entries

Left Engine completed a 100 hour inspection for Annual Certification. Ref: Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table 18-1. Inspection Report, Items B. & C. Drained oil, changed oil filter CH48104, inspected no metal particles. Suction oil screen removed, inspected, no metal particles, cleaned, installed and safetied. Serviced with Shell 15W-50 oil, 12 Qts. Spark plugs removed, cleaned, gaped, inspected, rotated and installed. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1- 70/80, 2-76 /80, 3- 75/80, 4-72 /80, 5-73/80, 6-74 /80. See following corrected discrepancies... Engine left side magnetos timed to engine at 20 degrees BTDC. Leak and ops check good. . Engine left side idle speed adjusted to 650 RPM. . A.D. 2002-26-01 Eff. 01/31/03. Lycoming Fuel Injection Line inspection complied with by visual inspection I/AAW Lycoming Service Bulletin 342A & 342D. Clamps and hardware installed to conformed to specifications set forth in diagram 21 of S.B. 342D. Inspection will be due again 11/30/07 or 2313.8 hours. . A.D. 2003-14-03 Textron Lycoming / Crane / Lear Romec fuel pump torque check inspection complied with I/AAW Lycoming Service Bulletin 529B. Lt. engine hardware required re-torque to 24 in. lbs. and re-safetied. A.D. needs to be complied with again in 50 hours at 2263.8 hrs. . A.D. 2005-12-06 eff. date 07/19/2005 Bendix/TCM Magnetos to prevent failure of the magneto impulse coupling assembly Complied with by inspection of Lt. & Rt. magneto I/AAW para (f) of A.D. and TCM MSB # 645. Impulse couplings are rivet type and data tag is not marked with "A" in lower right section quarter. Inspection is due again at 2313.0 hours total time.

ENGINE GROUND OPERATED, ALL SYSTEMS CHECKED NORMAL

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

11/1/2007

DATE: 11/1/2007

SIGNED

Michael Tillman, ACP 2845176 IA

Work Order: 11978


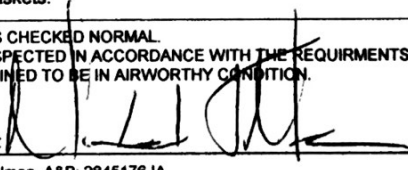
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ANNUAL complete

SUB-TOTALS this page

2213.8 2780 2213.8

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	2213.8	278.0	2213.8	TOTALS brought forward from previous page
11/06/07	2214.0	278.2	2214.0	Changed Engine oil Cleaned Screen Filled 11 QUARTS Aeroshell 15-50W J. Deaton - owner
01/18/08	2233.64	297.84	2233.64	Removed + Cleaned oil Screen - Replaced Screen + RAD Engine - Returned To Service J. Deaton - owner
02/08/08	2245.17	309.37	2245.7	Changed Engine oil - Cleaned Screen - Replaced Screen Filled 11 qts Aeroshell 15-50W J. Deaton - owner 31.17 T-BC
<div style="display: flex; justify-content: space-between;"> <div> <p>ENGINE MODEL: TIO-540-C1A ENGINE S/N (L): L-1532-61 REG. NO. 13839 WORK ORDER: 12695</p> </div> <div>  <p><b>Mangon Aircraft, Inc.</b> 501 Sky Ranch Drive Petaluma, CA 94954-3908 Phone: (707) 765-1848</p> </div> <div> <p>DATE: 4/8/2009 A/C TSN: 2265.06 ENG TT (L): 2265.06 TSMOH (L): 329.26 TACH: 2265.06</p> </div> </div>				
<p><b>Left Engine Entries</b></p> <p>Left Engine completed a 100 hour inspection for Annual Certification. Ref: Piper Service Manual Pn. 753-564, IR860921, 08/21/88, Table III-I. Inspection Report, Items B. &amp; C. Drained oil, oil filter screen removed, cleaned and inspected no metal particles. Suction oil screen removed, inspected, no metal particles, cleaned, installed and safetied. Serviced with Shell 15W-50 oil, 10 Qts. Spark plugs, removed, cleaned, gaped, inspected, rotated and installed. Magneto timing and sync, checked at 20 BTC #1. Injection nozzles removed and new turboGAMIjector nozzles installed. Fuel system pressure checked, no leaks. Compression test, Cyl. 1-79/80, 2-79/80, 3-78/80, 4-78/80, 5-78/80, 6-79/80. See following corrected discrepancies.... A.D. 2003-14-03 Textron Lycoming / Crane / Lear Romec fuel pump torque check inspection complied with I/A/W Lycoming Service Bulletin 529B. Next inspection due in 50 hrs. at 2315.06... A.D. 2008-14-07 Eff. 08/14/2008 Eng. Lt. Lycoming Fuel Injection Line inspection complied with by para. (j), (k), and Lycoming Engine MSB No. 342E. No discrepancies noted. Next due 2365.0 or when clamps or lines disturbed.... A.D. 2008-19-05 eff. 10/20/2008 Eng Lt. To prevent loss of engine power due to cracks at the head-to-barrel interface in the cylinder assemblies and possible engine failure caused by separation of a cylinder head not applicable this part number is not installed. Cylinders are not ECI.... A.D. 2009-02-03 Eff. 02/09/2009 Eng Lt. To prevent a lean running engine. Not applicable due to date of overhaul of fuel injection servo, overhauled on 11/20/1990.... Engine left cylinders #1 and #2 induction tubes removed, inspected, prep and painted. Reinstalled with new gaskets.</p> <p>ENGINE GROUND OPERATED, ALL SYSTEMS CHECKED NORMAL. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p>				
<div style="display: flex; justify-content: space-between;"> <div>DATE: 4/8/2009</div> <div>SIGNED: </div> <div>Work Order: 12695</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Michael Tillman, A&amp;P: 2845176 IA</div> <div>Printed by EBis 3 (datcomedia.com)</div> </div>				
04/08/09	2245.17	329.26	2245.17	APRIL/08/2009 ANNUAL Complete.
04/13/09	2265.1	349.26	2265.1	Time update To Reflect TACH Reading J. Deaton
<p>04/14/2009 tach 2265 1 Installed Reif Corp. engine heaters, FAA-PMA No. PQ2585CE in accordance with installation instructions No STC or 337 required 2265.1</p>				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				
	2265.1	349.26	2265.1	

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	2265.1	349.26	2265.1	TOTALS brought forward from previous page
8/16/09	2291.4	375.6	2291.4	Changed ENGINE OIL - CLEANED Screen. Filled 10 qts Aeroshell 15-50W CLEANED AIR FILTER - RAN ENGINE Returned To Service <i>Jeff Deaton</i> - owner.

1123/09 Left Tach 2305.41

Replaced fuel return hose MID: 542929803356252 TID: LK6367156 with part from IAS Inc. Replaced AN837-4 fitting.

Richard Guenther AP3039613IA *Richard H. Guenther*

12/27/09	2324.3	408.5	2324.3	Changed ENGINE OIL - CLEANED Screen. Filled 10 qts Aeroshell 15-50W - CLEANED AIR FILTER - RAN ENGINE (4 months. 32.9 hrs between oil change) (4 qts between change) <i>Opus Deaton</i> (owner) Returned To SERVICE

ENGINE MODEL:  
TIO-540-C1A  
ENGINE S/N (L): L-1532-61  
REG. NO: 13839  
WORK ORDER: 13040**Mangon Aircraft, Inc.**501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848DATE: 1/6/2010  
A/C TSN: 2309.6  
ENG TT (L): 2309.6  
TSMOH (L): 373.8  
TACH: 2309.6**Left Engine Entries**

Installed new crankshaft seal P/N: LW13792 in accordance with Lycoming Direct Drive Overhaul Manual P/N: 60294-7. Engine ground operated, no leaks.

DATE: 1/6/2010

SIGNED

*Ronald Mangon*  
Ronald Mangon, A&P: 3456258 IA

Work Order: 13040

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ENGINE MODEL:  
TIO-540-C1A  
ENGINE S/N (L): L-1532-61  
REG. NO: 13839  
WORK ORDER: 13137**Mangon Aircraft, Inc.**501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848DATE: 9/7/2010  
A/C TSN: 2329.99  
ENG TT (L): 2329.99  
TSMOH (L): 394.19  
TACH: 2329.99**Left Engine Entries**

Left Engine completed a 100 hour inspection for Annual Certification. Ref: Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table III-I. Inspection Report, Items B. & C. Suction oil screen and reusable filter removed, inspected, no metal particles, cleaned, installed and safetied. Serviced with Phillips 20W-50 mineral oil, 12 qts. for cylinder break-in period. Spark plugs, removed, cleaned, gaped, inspected, rotated and installed. Magneto timing and sync, checked at 20 BTC #1. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1-78/80, 2-78/80, 3-78/80, 4-78/80, 5-78/80, 6-77/80. See following corrected discrepancies.... Engine Lt. oil line from turbo to wastegate anti-chaff spiral wrap installed to protect chaffing against mount.... A.D. 2003-14-03 Textron Lycoming / Crane / Lear Romec Engine Lt. fuel pump torque check inspection complied with I/A/W Lycoming Service Bulletin 529B. Previous compliance with (b). (2) and (ii) with no change in torque. Section (4) complied with by visual inspection. No leaks noted. Due again at 2379.99 hrs.... A.D. 2008-14-07, eff. date 8/14/08, Engine Lt. Lycoming Fuel Injection Line inspection Complied with Para (i) no leaks, no defects. Due again at 2439.99 hrs. or 9/2011.... A.D. 2009-26-12, effective date 2/4/2010, Engine Lt. To prevent loss of engine power due to cracks at the head-to-barrel interface in the cylinder assemblies and possible engine failure caused by separation of a cylinder head. Not applicable to part number installed.

TOTALS—Carry forward to next page

*Continued* →

Page No.

## MING WORK

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**TOTALS—Carry forward to next page**



Michael Tillman, A&P: 2845176 IA

**Work Order: 13651**

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DATE: 04 June, 2013  
A/C TSN: 2400.41  
ENG TT (L): 464.61  
TSMOH (L): 464.61  
TACH: 2400.41

Michael Tillman, A&P: 2845176 IA

**Work Order: 14197**

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SUB-TOTALS this page

**TOTALS—Carry forward to next page**

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
2/5/14	2419.0			<b>DATE</b> 02/05/2014 <b>LEFT</b> <b>TOTAL ENGINE HOURS:</b> 2419.0 <b>TSMOH:</b> 486.96 <b>TSTOPH:</b> 89.00 Changed engine oil - Cleaned and inspected ADC oil screen Cleaned and inspected crankcase screen Filled with 10 qts Phillips 66 X/C 20W-50 AD Multigrade mineral based oil Ran Engine - checked for leaks and proper oil pressure Inspected engine air filter, hoses and intake duct Returned to service John G Deaton (owner)

ENGINE MODEL:  
TIO-540-C1A  
ENGINE S/N (L): L-1532-61  
REG. NO: 13839  
WORK ORDER: 14733



### Mangon Aircraft, Inc.

501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848

DATE: 15 August, 2014  
A/C TSN: 2438.31  
ENG TT (L): 502.51  
TSMOH (L): 502.51  
TACH: 2438.31

### Left Engine Entries

8/15/14

Left Engine completed a 100 hour inspection for Annual Certification. Ref: Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table III-I. Inspection Report, Items B. & C. Drained oil, cleaned externally mounted screen, inspected, no metal particles. Suction oil screen removed, inspected, no metal particles, cleaned, installed and safetied. Serviced with Phillips XC 20W-50 oil, 11 Qts. Spark plugs, removed, cleaned, gaped, inspected, rotated and installed. Magneto timing and sync, checked at 20 BTC #1. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1- 77/80, 2-78/80, 3- 78/80, 4-78/80, 5-77/80, 6-78/80. See following corrected discrepancies.... A.D. 2003-14-03 Textron Lycoming / Crane / Lear Romec fuel pump torque check inspection. A.D. is no longer applicable due to "M" kit installed on LT engine fuel pump Pn. RG17980J/M Sn. R4423. No further action required.... A.D. 2011-26-04 eff. date 1/25/2012 Engine LT. Lycoming Fuel Injection Line inspection complied with by visual inspection I/A/W Lycoming Service Bulletin 342A, 342D, 342E & 342F. No defects found. Inspection will be due again 08/2015, 2538.31 hours or when system is serviced.... Engine LT engine driven fuel pump Pn. RG17980J, Sn.R-4423 removed for overhaul. Overhauled engine driven fuel pump by CRS# VGOR728L W/O 43901 re-installed in original location now with "M" kit added to pump which changed the part number to RG17980M. Installed and indexed fittings for fuel lines and tightened fuel lines. Function check satisfactory. No leaks noted.

ENGINE GROUND OPERATED, ALL SYSTEMS CHECKED NORMAL.  
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION.

DATE: 15 August, 2014

SIGNED

Michael Tillman, A&P: 2845176 IA

Work Order: 14733

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8/15/14 2438.31

2/27/15 2480.11

TIMES UPDATED 02/27/2015  
TSN: 2480.11 TSMOH: 544.31  
TSTOPH: 150.11

LEFT

**DATE** 02/27/2015 **LEFT**  
**TOTAL ENGINE HOURS:** 2480.11  
**TSMOH:** 544.31  
**TSTOPH:** 150.11  
 Changed engine oil - Cleaned and inspected ADC oil screen  
 Cleaned and inspected crankcase screen  
 Filled with 10 qts Phillips 66 X/C 20W-50 AD  
 Multigrade mineral based oil  
 Ran Engine - checked for leaks and proper oil pressure  
 Inspected engine air filter, hoses and intake duct  
 Returned to service  
 John G Deaton (owner)

*John G Deaton*

2480.11 544.31 2480.11

2480.11 544.31 2480.11

**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
04/01/17	2480.11	544.31	2480.11	TOTALS brought forward from previous page

ENGINE MODEL  
TIO-540-C1A  
ENGINE S/N (L): L-1532-61  
REG NO 13839  
WORK ORDER 15213



## Mangon Aircraft, Inc.

501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848

DATE: 01 April, 2017  
A/C TSN: 2488 63  
ENG TT (L): 552 83  
TSMOH (L): 552 83  
TACH: 2488 63

2488.63

## Left Engine Entries

Left Engine completed a 100 hour inspection for Annual Certification. Ref Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table III-I. Inspection Report, Items B & C. Drained oil and serviced with Phillips 66 20W-50 oil, 12 Qts. Spark plugs, removed, cleaned, gaped, inspected, rotated and installed. Magneto timing and sync, checked at 20 BTC #1. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1-76/80, 2-76/80, 3-74/80, 4-78/80, 5-74/80, 6-74/80.

ENGINE GROUND OPERATED. ALL SYSTEMS CHECKED NORMAL.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 01 April, 2017

SIGNED

Michael Tillman, A&amp;P 2845176 IA

Work Order 15213

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10/21/17 2497.13 561.33 2497.13

DATE 10/21/2017

LEFT

TOTAL ENGINE HOURS 2497.13

TSMOH 561 33

TSTOPH 167 13

Changed engine oil - Cleaned and inspected ADC oil screen

Cleaned and inspected crankcase screen

Filled with 10 qts Phillips 66 X7C 20W-50 AD

Multigrade mineral based oil and 1 pint CamGuard

Ran Engine - checked for leaks and oil pressure

Inspected engine air filters, hoses and intake duct

Returned to service

John G Deaton (owner)

ENGINE MODEL  
TIO-540-C1A  
ENGINE S/N (L): L-1532-61  
REG NO 13839  
WORK ORDER 16201



## Mangon Aircraft, Inc.

501 Sky Ranch Drive  
Petaluma, CA 94954-3908  
Phone: (707) 765-1848

DATE: 01 October, 2018  
A/C TSN: 2507 3  
ENG TT (L): 571 5  
TSMOH (L): 571 5  
TACH: 2507 3

## Left Engine Entries

Left Engine completed a 100 hour inspection for Annual Certification. Ref Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table III-I. Inspection Report, Items B & C. Drained oil and serviced with Phillips 20W-50. Suction oil screen removed, inspected, no metal particles, cleaned, installed and safety. Serviced with customer supplied Phillips 20W-50 oil, 12 Qts. Spark plugs, removed, cleaned, gaped, inspected, rotated and installed. Magneto timing and sync, checked at 20 BTC cylinder #1. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1-74/80, 2-74/80, 3-76/80, 4-78/80, 5-74/80, 6-74/80. Ground run up performed. No leaks noted. Ops check good. A.D. 2015-19-07, effective date 11/3/2015, Engine LL. Lycoming Fuel Injection Line inspection complied with per Lycoming Service Bulletin 342G supplements 1 & 2. No defects noted.

ENGINE GROUND OPERATED. ALL SYSTEMS CHECKED NORMAL.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 01 October, 2018

SIGNED

Michael Tillman, A&amp;P 2845176 IA

Work Order 16201

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10/01/18 2507.3 571.5 2507.3 TOTALS

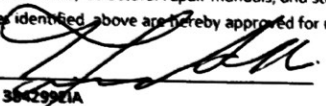
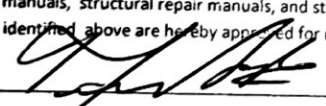
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2507.3 571.5 2507.3

TOTALS—Carry forward to next page



DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK																
	2507.3	571.5	2507.3	TOTALS brought forward from previous page																
04/18/2019	2513.4	577.61	2513.4	DATE 04/18/2019 LEFT TOTAL ENGINE HOURS 2513.4 TSMOH 577.61 TSTOPH 183.41 Changed engine oil - Cleaned and inspected ADC oil screen Cleaned and inspected crankcase screen Filled with 10 qts Phillips 66 X7C 20W-50 AD Multigrade mineral based oil and 1 pint CamGuard Ran Engine - checked for leaks and oil pressure Inspected engine air filters, hoses and intake duct Returned to service John G Deaton (owner) <i>John G Deaton</i>																
05/01/2020	2516.5	580.7	2516.5																	
ENGINE MODEL: TIO-540-C1A ENGINE S/N (L): L-1532-61 REG. NO: 13839 WORK ORDER: 16558 <b>Left Engine Entries</b> Left Engine completed a 100 hour inspection for Annual Certification. Ref: Piper Service Manual Pn. 753-564, IR860921, 08/21/86, Table III-I. Inspection Report, Items B. & C. Drained oil, checked aftermarket filter screen inspected no metal particles. Suction oil screen removed, inspected, no metal particles. cleaned, installed and safety. Serviced with customer supplied Phillips 20W-50 oil. 12 Qts. Spark plugs removed, cleaned, gapped, inspected, rotated and installed. Magneto timing and sync checked at 20 BTC cylinder #1. Injection nozzles removed ultra-sonic cleaned, inspected and installed with new seals. Fuel system pressure checked, no leaks. Compression test, Cyl. 1-78/80, 2-76/80, 3-78/80, 4-76/80, 5-78/80, 6-72/80. Engine washed. Ground run up performed. Ops check good. Engine Lt. idle speed adjusted to 650 RPM. A.D. 2015-19-07, effective date 11/3/2015, Engine Lt. Lycoming Fuel Injection Line inspection complied with per Lycoming Service Bulletin 342G Supplements 1 & 2. No defects noted. ENGINE GROUND OPERATED, ALL SYSTEMS CHECKED NORMAL. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF A 100-HOUR INSPECTION FOR AN ANNUAL CERTIFICATION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. DATE: 01 May, 2020 SIGNED: <i>Michael Tillman</i> Michael Tillman, A&P. 2845176 IA DATE: 01 May, 2020 A/C TSN: 2516.5 ENG TT (L): 580.7 TSMOH (L): 580.7 TACH: 2516.5 Work Order: 16558 Printed by EBIS 3 (datcomedia.com)				<b>Mangon Aircraft, Inc.</b> 501 Sky Ranch Drive Petaluma, CA 94954-3908 Phone (707) 765-1848																
12/16/2020	<b>Left Engine Log Entry</b> <table border="1"> <tr> <td>REG #</td> <td>N13839</td> <td>Date</td> <td>02/01/2022</td> <td>Model</td> <td>PA23-250</td> <td>Serial #</td> <td>27-4480</td> </tr> <tr> <td>MFG</td> <td>Piper</td> <td>ACTT</td> <td>2546</td> <td>TSMOH</td> <td>610</td> <td>ENGS/N</td> <td>L-1532-61</td> </tr> </table> <p>Complied with an 100hr/Annual inspection IAW Piper Service Manual Pn 753-564.            Performed compression check CYL #1 78/80, #2 78/80, #3 76/80, #4 74/80. #5 76/80, #6 72/80.            Drained oil, add 11 QTS Phillips 20W50 engine oil. Cleaned and inspect aftermarket oil filter screen. Clean and inspect suction oil screen, found no defects at this time. Serviced spark plugs and air induction filter. Complied with A/D 2015-19-07, Eff date 11/03/2015 Lycoming fuel injection line inspection. C/W Lycoming SB 342G.            I certify that this ENGINE has been inspected IAW an 100hr/annual inspection and was found to be in airworthy condition.            Brian Welling <i>Brian Welling</i> A/P 3692260 IA.</p>				REG #	N13839	Date	02/01/2022	Model	PA23-250	Serial #	27-4480	MFG	Piper	ACTT	2546	TSMOH	610	ENGS/N	L-1532-61
REG #	N13839	Date	02/01/2022	Model	PA23-250	Serial #	27-4480													
MFG	Piper	ACTT	2546	TSMOH	610	ENGS/N	L-1532-61													
SUB-TOTALS this page																				
TOTALS—Carry forward to next page																				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
Win Win Aviation L/H Engine				
Aircraft: N13839	MOD Lycoming TIO-540-C1A	Date: 11/6/2023		
Aircraft TT: 2555.8	SN L-1532-61	Tach: 2555.8		
<p>1 Complied with 100hr/annual inspection IAW Piper Service Manual PN 753-564. Performed compression check CYL# 78/80, CYL#2 78/80, CYL#3 76/80, CYL#4 75/80, CYL#5 76/80, CYL#6 74/80. Removed spark plugs cleaned, checked and gapped, installed and torqued. Drained oil, cleaned, checked, and cleaned aftermarket oil filter screen. No debris found. Both inboard and outboard slick magnetos sent out for 500hr inspection and check. Internal timing completed, fitted and timed to engine. 11 qts Philips 20W50 engine oil added. Complied with AD 2015-1907, effective date 11/03/2015 Lycoming fuel injection line inspection. C/W Lycoming SB 342G.</p> <p>All inspections, work, and repairs were performed per Customers Request, IAW appropriate manufacturer's maintenance manuals, structural repair manuals, and standard practices. The aircraft, engines, propellers, or appliances identified above are hereby approved for return to service as per the work performed.</p> <p>Signature  J.F. Myburgh 38429921A</p>				
Win Win Aviation L/H Engine				
Aircraft: N13839	MOD Lycoming TIO-540-C1A	Date: 3/12/2025		
Aircraft TT: 2557.2	SN L-1532-61	Tach: 2557.2		
<p>1 Complied with 100hr/annual inspection IAW Piper Service Manual PN 753-564. Performed compression check CYL# 75/80, CYL#2 74/80, CYL#3 76/80, CYL#4 75/80, CYL#5 76/80, CYL#6 74/80. Removed spark plugs cleaned, checked and gapped, removed and replaced 4(ea) worn spark plugs, installed and torqued. Drained oil, cleaned, checked, and cleaned aftermarket oil filter screen. No debris found. 11 qts Philips 20W50 engine oil added. Complied with AD 2015-1907, effective date 11/03/2015 Lycoming fuel injection line inspection. C/W Lycoming SB 342G. AD 2023-09-09 Complied with by means of visual inspection of the turbo V-band clamps, found satisfactory.</p> <p>All inspections, work, and repairs were performed per Customers Request, IAW appropriate manufacturer's maintenance manuals, structural repair manuals, and standard practices. The aircraft, engines, propellers, or appliances identified above are hereby approved for return to service as per the work performed.</p> <p>Signature  J.F. Myburgh 38429921A</p>				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page

wo: WO\_1544

Engine L · page 1 of 1

# FirstXLine

AERO

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N13839

LYCOMING, T10-540 SER, S/N: ENGINE-L SN TBD

July 24, 2025

TACH: 2568.4

1. LH engine ran rough in flight-CHT low on cylinder 5. Removed LH engine side cowls, removed #5 spark plugs. Found broken exhaust valve springs and bent pushrod on cyl 5.
2. Replaced broken exhaust valve springs on cylinder 5. Replaced exhaust pushrod on cylinder 5. Removed exhaust side pushrod tube cover, reset oil lifter tappet. Reinstalled tube cover. Reinstalled rocker arm shaft, rocker arm and pushrod tube. Checked dry valve lash, good. Reinstalled spark plugs. Reinstalled rocker arm cover and engine cowls. Installed (2) P/N SL12892 - Rocker Shaft Button, P/N SL11795 - Inner Valve Spring, P/N SL11800 - Outer Spring, and P/N SL15F19957-34 - Push Rod Assembly. Ground run ops normal LH engine.

All work done w reference to Lycoming Direct Drive MM. With respect to the work performed, this engine LH is approved for return to service.

T.J. Hunter A&amp;P/IA 3554698



SUB-TOTALS this page

TOTALS—Carry forward to next page

