

**TEXTRON** Lycoming

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
717/323-6181

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING T10 540 - 51AD RL-3875-61A  
MAKE MODEL SERIAL

FROM \_\_\_\_\_ 19 \_\_\_\_ TO \_\_\_\_\_ 19 \_\_\_\_

DETAILING TIME FROM \_\_\_\_\_ TO \_\_\_\_\_  
HOURS HOURS

**SSP 1872-1**

**October 1994**

# ENGINE DESCRIPTION

Mfgr. <b>TEXTRON LYCOMING</b>	Place <b>Williamsport, PA 17701</b>	Date	
Type	Model <b>T10 540 S1A0</b>	Serial No. <b>RL 3875-61A</b>	
Rated H.P.	Max. H.P.	Weight (Dry)	
Rated R.P.M.	Max. R.P.M.	Oil Pressure	
Bore	Stroke	Displacement	Cu. In.
Compression Ratio	Supercharger Ratio		
Reduction Gear Ratio			
Propeller <b>HRAT2E11</b>	Hub Design <b>HC-82YR-13F</b>	Hub Serial No. <b>FB477-4</b>	
Blade Design <b>D78693</b>	Blade Serial No. <b>81375</b>	Blade Serial No.	
Max. Hub H.P.	Max. Blade H.P.		
Pitch	Diameter	Length	
Name			
Address			

**TEXTRON Lycoming***Installed July 12 - 1999*TLRED-489  
(Rev. 10-96)652 Oliver Street  
Williamsport, PA 17701 U.S.A.

This engine has been overhauled/rebuilt in accordance with the applicable Textron Lycoming manuals. All applicable Federal Aviation Administration Airworthiness Directives and Textron Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are either new or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: TIO-540-S1AD  
Serial #: RL-3875-61A  
Total Time: 5560.00  
Work Order #: RC61921  
Date Completed: *6/29/99*

Authorized Signature *S.F. Ellis*  
Textron Lycoming  
652 Oliver Street  
Williamsport, PA 17701  
Repair Station: EJ1R115K

License  
Number

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
7-13-99			Tach Time 3023.36 SMON 0 SPOH 0		
			ENGINE INSTALLED ON 39616 FUEL INJECTOR LW -15987-85		
			SIN 84901, MAGNETO SWICH LW 785126-111 SIN C239804G		
			STARTED LW -15571 SIN <del>B3281</del> <sup>R4</sup> 9051484		
			Fuel Pump LW 19012 SIN B3281 (WIR)		
			Turbo charger LW -15749-85 SIN BC007499 Allied Signal		
			AB Press Rel LW 14445-10-85 Allied Signal BB 012254		
			Cylinders PLAIN STEEL Nitrided BARACKS Spark plugs		
			1182-47 Champion oil cooler PIN 8535311		
			SIN 78E-1943 oil hoses FN 366050 LH0210		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
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			Total to Date		

# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			AN 366000 1 HO 266 Load mounts 470-979 Lower 470-983 Upper Prop NC-12AYR-1BF ER477-4 Done by Maxwell Governon F-4-11B overhauled Air Filter BA-7 Engine according to Lycoming installation procedure serviced with 12qt Phillips Type M 20W 50 oil Run up checked OK I certify that this engine has been inspected in accordance with AN annual inspection and was determined to be in airworthy condition Roldo Kande PI 503 46 5964 AP		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		



# ENGINE LOG

Serial No. *RL-3875-6CA*

Date

9/25/00 N39616 Lyc TIO-540-SIAD S/N RL-3875-61A  
Tac 3066.7 AFTT 3048.9 TSMOH 42.3

Performed an annual inspection, changed oil and filter, serviced with 10qts Phillips XC 20W 50 and a CH48103 filter. Filter cut open and checked for contamination - no defects noted. Compression test done #1 78/80 #2 64/80 #3 72/80 #4 69/80 #5 70/80 #6 64/80.

C/W CSB-662A by replacing capacitors P/N 10-382681

C/W AD 2000-18-53 by replacing gasket P/N LW-13388 due in 50hrs 3116.7

C/W AD 91-21-01-R1 Crossover pipe next due 3166.7

C/W AD 93-05-22 Fuel injection line next due 3166.7

I certify that this engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition.

*Ronald J Kanute AI 503 46 5964 11A#*

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Total to Date

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# ENGINE LOG

Serial No. RL-3875-61A

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5/16/01	A	FTT	3061.4 TSMOH 54.8 changed oil with Phillips XC20W50, changed filter with 48103.	<i>Robert Collins</i>	IA 292350755
7/5/01	A	FTT	3080.3 TSMOH 73.7 Complied with AD 2000-18-53 per S11453 part III. Installed oil filter converter plate kit P/N 54E23073, note: This eliminates the 50 hr <del>oil</del> replacement requirement. 337 submitted and copy put in AC Record 5e Robert & Collins IA 292350755		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		



# ENGINE LOG

Serial No. RL-3875-61A

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
7/5/01	AFTT	3050.3	TSMOH 73.7 CHANGED OIL WITH PHILIPS XK 20W50 CHANGE FILTER 15103. Robert L Collins ATP 292380756.		

10-15-01	AFTT	3115.6	TSMOH 109.0. Service Engine per Annual inspection, serviced Fuel and oil screens, checked VNE Timing, inspected ALL HOSES. Replaced V CLAMP ON MUFFLER TO TURBO CHARGER, Replaced TIT probe, Replace BAFFLE SEALS. Did compression check #1, 80/74 #2, 80/72 #3, 80/75 #4, 80/74 #5, 80/76 #6, 80/74.		
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I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCOR

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	Total to Date

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# ENGINE LOG

Serial No. RL-3875-61A

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			<p>done with an Annual inspection and was determined to be in an Airworthy condition.</p> <p><u>Robert E Callin IA 292350755.</u></p>		
11/19/01	TACH	3132.6	<p>TSMOH 126.0 Changed oil with Aeroshell 15W50. Replaced filter. Cut open filter and inspected. pulled Sump screen. All OK. Added 1PT Ave Blend oil</p> <p>Add time <u>Robert E Callin ATP 292350755</u></p>		

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# ENGINE LOG

Serial No. PL-3875-61A

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
2/18/02	TS	MOH 130.7	Removed ENGINE in compliance with SIC 550. Robert F. Callin A/P 292380758		
4/22/02	TS	MOH 130.7	Reinstalled ENGINE on N39616 with tach time of 3136.6 AFTT of 3159.6 after Textron LYcoming compliance of AD 550 (2002-0451). ORIGINAL STARTER WAS REPLACED WITH MAGNA ELITE LIGHT WEIGHT STARTER. NEW WEIGHT AND BALANCE SHEET COMPLETED AND PUT IN PILOT OPERATORS HAND BOOK. ENGINE TEST RUN AND ALL SYSTEM OK. Robert F. Callin A/P 292380758		
			Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

## **TEXTRON** Lycoming

652 Oliver Street  
Williamsport, PA 17701

04/10/02 Engine s/n RL-3875-61A was removed from service with 130.7 SMOH and returned to Textron Lycoming for inspection/repair due to the paint peeling. Engine was disassembled, cleaned, paint removed, and inspected. Cylinders were honed replacing (1) exhaust valve and (2) intake valves. Crankshaft was reworked and inspected to blueprint. Engine was reassembled replacing the starter with s/n C03200, fuel pump with s/n B4246, (1) connecting rod, (3) hoses, and the crankshaft idler gear. Also replaced were all: bearings, piston rings, impellers, piston pin plugs, hardware necessary for the repair, and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240R, 342D (93-02-05), 475B (91-14-22), 528, 539A, 543, 550 (2002-04-11), 99126 C, 1410, 1424, 1487. All pertinent data relating to this work is on file at Textron Lycoming under work order CR02043.

*M. A. Dugan*  
M. A. Dugan Repairman #2606040  
Repair Station EJ1R115K

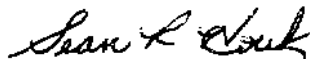
END

\* Due to logbook time discrepancy the Above Engine Time since Major Overhaul is Incorrect at 130.7. The Overhauled Engine was originally installed at Tach Time 3023.36 and Removed at Tach 3136.6 and sent to Lycoming. Correct Time since Major Overhaul = 113.24  
*Sean R. Dault IA275604827*

November 22, 2002 N39618 PA32RT-300T S/N 32R-7887121 Tach Time 3148.90  
Lycoming TSIO-540-S1AD S/N RL3875-61A ETT 123.54 TSMOH 123.54

Annual inspection completed this date in accordance with FAR 43 App D and PA 32 Service Manual recommendations. Inspected engine, exhaust, intake, accessories, hoses, mounts and turbocharger system. Performed compression check: #1 77 #2 75 #3 74 #4 75 #5 73 #6 75/80. Cleaned, gapped, inspected and rotated spark plugs. Changed oil with 12qts. Aeroshell W80 and installed CH 48103 filter. Inspected used filter and sump screen- no abnormal metal found. Replaced oil drain with Saf Air oil drain valve. Checked mag timing at 25 BTC. Inspected and lubricated engine controls. Replaced throttle and mixture anti-ice boots P/N 553 182. Replaced air induction filter with Brackett air filter assembly; 337 previously filed. Installed Tanis TAS100-06 S/N 34769 with optional TAS104 elements in accordance with Tanis Services Instructions and Drawings No.102 and applicable sections of AC43.13. Operational Check satisfactory. Installed J. P. Instruments engine monitor probes including the following: 6 EGT probes P/N 128, 6 CHT probes P/N 126, and 1 oil temp probe P/N 124. TIT wired in parallel with the original airframe probe. Engines probes installed in accordance with J.P. Instruments installation manual for the EGT-701 #103 Rev C. All probe wiring routed in accordance with installation manual and applicable sections of AC43.13. Engine monitor installed under STC # SA2586NM. All applicable Airworthiness Directives complied with thru 2002-23. Performed ground run up and leak inspection satisfactory.

I certify that this engine has been inspected in accordance with an annual inspection and determined to be in airworthy condition.



Sean R. Houk

IA275604827





# ENGINE LOG

Serial No. \_\_\_\_\_

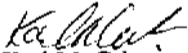
Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
6/2/03			TACH 3221.7 TSMOH 198.34 ETT 198.34 Changed oil and filter this date. Serviced engine with 10 qts Aeroshell W100 and CH 48103 filter. Inspected used filter. No abnormal metal found. Inspected and lubricated engine controls. Ground Run up and leak inspection satisfactory. Sean R. Bink JA275604827		
7/29/03			TACH 3239.3 TSMOH 215.94 ETT 215.94 Changed oil and filter this date. Serviced engine with 10 qts Aeroshell W100 and CH 48103 filter. Inspected used filter - No abnormal metal. Cleaned spark plugs. Ground Run up and leak inspection satisfactory.		
			Page Total	All Repair Data Must Bear the Endorsement of a <i>Sean R. Bink</i> Certificated Mechanic, and his Rating and Certificate Number MUST be Shown. <i>JA275604827</i>	
			Brought Forward		
			Total to Date		





# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lic Nur
	Hrs	Min			
			Colemill Enterprises Inc. Cornelia Fort Airpark Nashville TN. 37206		
			11/19/04 3305.0 AC Tach. Drain oil remove and inspect the oil filter no metal was found. Install a new CH48103-1 oil filter and 11 QT Shell W80 oil. Clean gap and test all plugs all satisfactory. Tighten the alternator bracket. Ground operational check satisfactory I certify this work is airworthy for return to service. END.		
			N39616	 Karl M. Crist AP2178607	

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# ENGINE LOG

Serial No. \_\_\_\_\_

Colemill Enterprises Inc  
Cornelia Fort Airpark  
Nashville TN 37206

2/04/05 3308.57 AC Tach 285.2 TSFOH. Un-cowl and inspect this engine per Piper form 230-953. Drain the oil and inspect the filter. No metal was found. The following work was also done:

1. Replace the throttle rod end hardware with the correct washers.
2. Install a new waste gate limit screw. P/N AN 501-10-16
3. Repair the upper exhaust heat shield by welding and Reposition the exhaust clamps Per Lyc. SB 499A
4. Replace the rubber at the front of the cowl where missing. Trim to fit.
5. Replace the loose and missing rivets in the top cowl heat shield.
6. Replace the crush washer on the oil temp probe.
7. Reposition the clamps on the oil cooler hoses for proper fit.
8. CW AD 96-12-07 on the impulse coupling. Per SB 645 and Bendix SB 599B & 623.
9. CW AD 91-21-01 R1 by measurement No cracks found.
10. CW AD 2002-26-01 Fuel inj lines. Press and Visual check ok.

Continued on page 2 Dated 2/4/05

# ENGINE LOG


Serial No. \_\_\_\_\_

Continued from page 1 dated 2/4/05

11. AD 2004-05-24 N/A Dual Mag. Installed
12. AD 2004-10-14 Loosening of the crank bolt DUE at prop strike, Sudden stoppage or OH.
13. Service this engine with 12 Qt. Shell W80 oil. New CH48103 filter.  
ground run no leaks found.

I certify this engine has been inspected in accordance with a 100 Hr inspection and was found to be airworthy at this time. END.

N39616

  
Karl M. Crist  
AP2178607License  
Number  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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# ENGINE LOG

Serial No. \_\_\_\_\_

Date

Time

Hrs | Min

REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Signature

ENGINE MODEL: ~~TD540-61AD~~  
TD540-61AD  
ENGINE S/N: RL-3575-61A  
REG. NO: N38816  
WORK ORDER: 5237

~~Engine Air Center~~

Nashville Jet Center, Inc.

Repair Station No. N3JR104D  
801 Hangar Lane - Hangar #8  
Nashville, TN 37217  
Phone: (615)561-8020

DATE: 4/22/2005  
AC TSN: 3354.24  
ENG TT: 6849.17  
TSMCH: 269.17  
TACH: 3312.24

## Engine Entries

(3) Complied with 100hr/ 12 month engine inspection.... (5) Complied with Compression test #1=78, #2=78, #3=78, #4=79, #5=79, #6=79 (psi)... (8) Removed, cleaned, inspected, gaped, and re-installed spark plugs as required.... (9) Complied with AD2003-14-03, engine fuel pump torque check inspection. OK at this time.... (11) Complied with oil and filter change using 11 Qts phillips 20W50 Oil, 1oil filter CH481D3. Leak check good.... (12) Complied with oil Filter inspection. No discrepancies found at this time.... (15) Filled gaps in Baffle with Black RTV.... (18) Stop drilled crack on L/H lower baffle (close to top R/H corner of oil cooler)and applied sealant.... (20) stop drilled baffle on L/H lower baffle (on intake for vac pump air cooling tube)and applied sealant... (21) Tightened valve cover on #4 cylinder.

The aircraft and/or component(s) on N38816 was repaired and/or inspected in accordance with current Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 5237 Dated 4/22/2005

DATE: 4/22/2005

SIGNED:



Work Order: 5237

David Clouse, IA: 408458729

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