

TEXTRON Lycoming

ENGINE

LOG

SSP-1872-1

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING
MAKE MODEL SERIAL

FROM _____ 19 ____ TO _____ 19 ____

DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP 1872-1

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October 1994

TEXTRON Lycoming

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: IO-540-K1G5D
Serial #: L-17753-48A
Total Time: 1970.2
Work Order #: AR185730
Date Completed: 6/27/02

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

ENGINE DESCRIPTION

Mfgr. TEXTRON LYCOMING	Place Williamsport, PA 17701	Date	
Type	Model	Serial No.	
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	Hub Design	Hub Serial No.	
Blade Design	Blade Serial No.	Blade Serial No.	
Max. Hub H.P.	Max. Blade H.P.		
Pitch	Diameter	Length	
Name			
Address			

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
08/14/02	Tech	3959	Changed oil and filter added 11gts shell 100 installed new oil quick drain. run up and leak check good.	Jim Wuland	AP476802170
01/29/03	Tech	3999	changed oil + filter added 11gts Aeroshell 15W-50 run up + leak check ok	P. J. A. C. L.	AP476766712
3 31 03		555 II	RA 52		
			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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
05/20/03			Tach 4054 Changed oil and filter added 11gts Shell 15W-50 run up and test check good. Jim Wulan JAP 476802170		
08/01/03			Tach 4063 T/E 138 Comp 1) 72/80 2) 70/80 3) 72/80 4) 70/80 5) 70/80 6) 76/80 Changed oil + filter serviced with 11gts Aerobell 15W-50 Checked ignition harness cleaned and gapped sparkplugs C/W AD 2002-26-01 Fuel injector lines due each annual or 100 hrs Ground run up + ol's ✓ ok —		
			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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
Date	08/01/03		Total Aircraft Time... 4083 I certify the Engine has been inspected in accordance with a 100 hr inspection and was determined to be in airworthy condition. Signature: <u>Pctm Clk</u> A&P No. <u>476766712</u>		
03/29/04			TACH 4152 Changed oil + filter serviced with 11 qts Aeroshell 15w-50 run up + look check ok - Pctm Clk A+P 476766712		
7-27-04			4188 T.O. Changed oil + filter Aeroshell 15w50 A. Sed 47668220 A2		
			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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			<p style="text-align: center;">9-28-04 Total Aircraft Time 4194 I certify this engine has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition. signature <u>De Saal</u> A&P No. <u>47766822012</u></p>		
12/6/04	4	28	<p style="text-align: center;">Changed oil & filter Shell 1550 <u>De Saal 47766822012</u></p>		
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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
9/16/05	10:42	78	changed oil + filter serviced with 11qt 15W-50 Amsoil PFA Unit 476766712		
10-4-05	1:32	6	381 Smoke COMP TEST 74 72 73 74 70 72 Changed All Spark Plugs RHM 3YE Tighten Alternator On AD 2002 26-01 Fuel Injectors Due to FMSR changed oil & filter Added 15W50 Shell oil checked Cool 10-4-05 Total Hours Time 4326 Engine has been inspected in accordance with a inspection and was determined to be in satisfactory condition		
Page Total			Brought Forward	All repairs must bear the endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be shown.	
Total to Date					

Signature: *[Handwritten Signature]*
 License Number: *82047*

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
2-16-06	TACH 4384		changed oil and filter serviced with 11qts 15w-50 AeroShell Craig Thompson A#13032140		
			HO 2005-19-11 RA 52 R. J.		
9-15-06	44	36	Changed oil and filter serviced with 11qts AeroShell 15w50 run up and ops check good. Craig Thompson A#13032140		
			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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
11-4-06	Tue	6	4461 S10H 516 Comp test 1) $\frac{74}{80}$ 2) $\frac{68}{80}$ 3) $\frac{74}{80}$ 4) $\frac{74}{80}$ 5) $\frac{68}{80}$ 6) $\frac{76}{80}$ cleaned, gapped spark plugs, checked exhaust and induction, checked and lubed all engine controls. CW AD 2005-10-06 inspection of impeller coupling x-factor .039 & .039 due every 500hrs. CV AD 2002-26-01 Fuel injector lines due every insp or 100hrs. Run up and ops check good. 11-4-06 on 516 Total Aircraft Time. I certify this engine has been inspected in accordance with a inspection and was determined to be in airworthy condition.		
			Page Total <u>Crazy Thompson</u> Brought Forward <u>U</u> Total to Date	Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
4-6-07	4	48	Removal mag replaced both contacts Changed oil & filter Added Shell 15 W 80 oil checked good R. Soehn 47668220 AT		
NOV 6 07	11	42	Changed oil & filter Added Shell 15 W 80 Oil checked good R. Soehn 47668220 AT		
			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. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5-27-09			Tcc 4694 7495mol Comp test 62 70 74 76 74 74 Checked & Replaced All Spark Plugs Replaced ST Mufflers & All Exhaust gaskets Replaced Induction Tannis Pad. Changed oil & filter Added Shell 15W40 OPS checked - good. CWO 2008-14-07 Fuel lines 5-27-09 Total Aircraft Time <u>4694</u> I certify that this aircraft has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition.		
			Page Total <u>47668220</u> Brought Forward Total to Date	All repairs must bear the endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5-13-10			T. - 4761 T smd 816		
			<p>Com 1 test All cyls Above $\frac{27}{50}$</p> <p>checked Plugs miss leads miss</p> <p>CW ADs 2002-26-01 + 2008-14-1 P3 Inst P</p> <p>Fuel Injector Ass Due a 10 hrs 1 Replaced</p> <p>Throttle to SUD BOIT Tash AIR Belt</p> <p>ADJUST AIR AN CABLE</p> <p>5-13-10 4761</p> <p>...</p>		
			<p>Page Total 1100000 and 1000000 to be 4761 2208</p> <p>Brought Forward <i>[Signature]</i></p> <p>Total to Date</p>		

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date

New Ulm
Flight Service

5/25/11

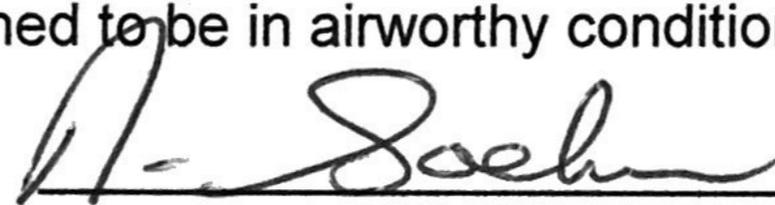
Tach: 4870

SMOH: 925

Comp test: 70 76 72 72 74 76

Checked mags, leads, mufflers. Cleaned plugs. Replaced vacuum pump with new pump #AA 215CC. CW AD's 2008-14-07 and 2002-26-01 by inspecting fuel injectors – due each 100 hours. Replaced 2 rocker cover gaskets. Ops checked good.

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



Dan Soehren 476668220AI

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License
Number

Date

7-1-11

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Total to Date

Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.

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ENGINE LOG

Serial No. _____

New Ulm
Flight Service

7/1/13

Tach: 5009

SMOH: 1094

Comp test: all above 76/80. Checked mags, leads, and exhaust. Installed new spark plugs. AD 2012-19-10 N/A serial number. CW AD 2011-26-04 by inspecting fuel injector lines. Run up good.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.



Gabe Soehren 3361780AP

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Total to Date

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ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lic Num
	Hrs	Min			

New Ulm
Flight Service

5/30/14

Tach: 5082

Installed rebuilt engine driven fuel pump LW15473, serial number 5YG06. Installed new SkyTec starter 149-NL, serial number FN4813103 in accordance with SkyTec Instrument instructions. Ops check good.



Gabe Soehren 3361780AP

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		Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

New Ulm
Flight Service

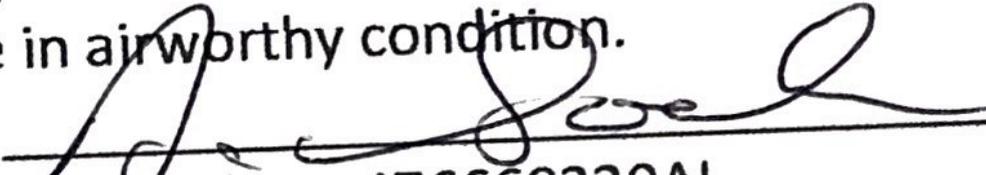
7/25/14

Tach: 5099

SMOH: 1184

Comp test: 76 76 72 74 78 72. Checked and cleaned plugs. Checked mag and muffler. Cleaned engine. Changed oil and filter. Added Shell 15w50 oil. Inspected filter-found no metal. Run up and ops checked good.

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


Dan Soehren 476668220AI

Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

License
Number

New Ulm
Flight Service

7/17/15

Tach: 5151

SMOH: 1236

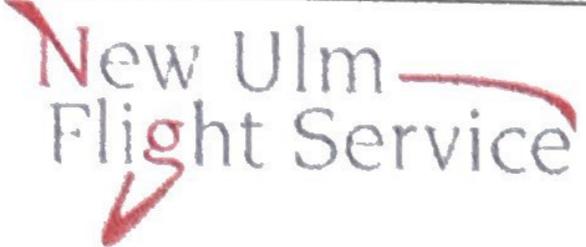
Comp test: 76 72 78 70 78 78 . Cleaned and gapped plugs. Checked mags and leads. AD 2011-26-04 by inspecting fuel injector lines due each 100 hours. Replaced 2 rear mufflers and exhaust clamps. Replaced #3 & #5 exhaust stacks. Installed new bushing and bolt on mixture control arm. Run up good.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.



Gabe Soehren 3361780AP

ENGINE LOG



Date

8/12/16

Tach: 5174

SMOH: 1260

Certificate Number

Comp test: 62 70 76 70 78 78 . Cleaned and gapped plugs. Checked mags and leads. CW AD 2015-19-07 by inspecting fuel injector lines due each 100 hours. Replaced 4 rocker cover gaskets. Changed oil and filter. Added Shell 15w50 oil.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.

Gabe Soehren 3361780AP

		Page Total
		Brought Forward
		Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date

New Ulm
Flight Service

11/29/17

Tach: 5197

SMOH: 1283

Comp test: 68 70 75 72 76 76 . Checked and cleaned plugs. Replaced one intake gasket. Replaced one spark plug. Replaced one oil cooler hose. CW AD 2015-19-07 by inspecting fuel injector lines due each 100 hours.

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



Dan Soehren 476668220AI

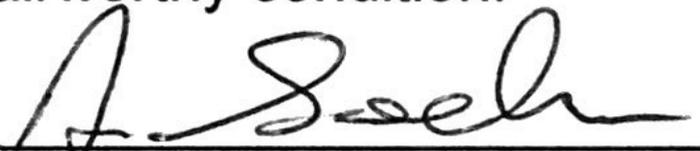
Brought Forward

Total to Date

Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time	REPAIRS ADJUSTMENTS SERVICE REMARKS	Signature	License
		<p>New Ulm Flight Service</p> <p>12/17/18</p> <p>Tach: 5197</p> <p>SMOH: 1283</p> <p>Comp test: 68 70 75 72 76 76 . Checked and cleaned plugs. Changed oil and filter. Cut filter-no metal found. Added Shell 15w50 oil. CW AD 2015-19-07 by inspecting fuel injector lines due each 100 hours.</p> <p>I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> <p> _____ Dan Soehren 476668220AI</p>		

MAKE: PIPER
MODEL: PA-32RT-300
S/N: 32R-7985080
REG. NO.: N541MV



North Star Aviation, Inc.
FAA Cert: NUTR521L
3030 N Airport Road
Mankato, MN 56001

W/O #: MKT2256-07-2023
DATE: 02-01-2024
A/C TT: 5199.2
A/C Tach: 5199.2

Airframe Entries

- 2 Completed a 100 hr. inspection using the checklist contained in the Piper PA32RT-300 maintenance manual. I certify that this engine has been inspected in accordance with an 100 hr. inspection and was determined to be in airworthy condition.
- 4 Compression test. Cylinder #1 74/80 #2 76/80 #3 76/80 #4 74/80 #5 72/80 #6 74/80
- 5 Removed spark plugs cleaned gapped and tested. Reinstalled spark plugs using new M674 gaskets. Run up check good.
- 6 Drained oil. Removed oil filter cut open and inspected. Found oil filter has excessive contamination. Had oil filter and oil analyzed. Oil sample identified the contamination was tetraethyl lead. Serviced engine with 11 Qts Aeroshell 15W-50 and ground ran engine. Removed oil filter cut open and inspected. Oil still had excessive lead. Drained oil installed new oil filter and serviced with 11 Qts Phillips 20W-50. Ground ran engine. Removed oil filter cut open filter and inspected. No defects noted. Installed new oil filter P/N AA48103-2 and safety wired. Serviced engine with 11 Qts Phillips 20W-50.
- 10 Complied with AD 2015-19-07 by visual inspection of fuel injection lines and clamps in accordance with Lycoming Service bulletin 342G. No Defects noted AD is next due at 5299.21 A.C.T.T.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

DATE: 02-01-2024

SIGNED: 
Jon Wieland
FAA Cert: NUTR521L

WORK ORDER: MKT2256-07-2023
Printed by EBIS (EBISCloud.com)

DA1

MAKE PIPER
MODEL: PA-32RT-300
S/N: 32R-7985080
REG. NO.: N541MV



North Star Aviation
3030 Airport Rd
Mankato, MN 56001

W/O #: ULM1020-02-2024
DATE: 02-20-2024
A/C TT: 5203.1
A/C Tach: 5203.1

Airframe Entries

3 Removed oil filter, cut open and inspected. No defects noted. Reinstalled new oil filter P/N AA48103-2 and safety wired. Run up and leak check good.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

DATE: 02-20-2024

SIGNED:

WORK ORDER: ULM1020-02-2024

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MAKE: PIPER
MODEL: PA-32RT-300
S/N: 32R-7985080
REG. NO: N541MV
ENGINE MAKE: LYCOMING
ENGINE MODEL: IO-540-
K1G5D
ENGINE SN: L-17753-48A



North Star Aviation
3030 Airport Rd
Mankato, MN 56001

W/O #: ULM1030-07-2024
DATE: 07-22-2024
A/C TT: 5233.8
A/C Tach: 5233.8
ENG TT: 3259.0
TSMOH: 1288.8

Engine Entries

2 Drained oil. Removed oil filter cut open filter and inspected. No defects noted. Installed new oil filter P/N AA48103-2 and safety wired. Serviced engine with 11 Qts Phillips 20W-50.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of this work order are on file at this Certified Repair Station#NUTR521L

DATE: 07-22-2024

SIGNED

Gabe Soehren
A&P or IA Number: 3361780

WORK ORDER: ULM1030-07-2024

Printed by EBIS (EBISCloud.com)

Lycoming IO-540-K1G5D S/N L-17753-48 TTSN 3,306.99 TTSOH 1,336.79 Aircraft
Tach 5281.79 Annual inspection this date IAW Piper PA-32R-300 inspection guide.
Compression test #1 20/80 #2 75/80 #3 77/80 #4 76/80 #5 78/80 #6 77/80 Removed #1
cylinder due to leakage by exhaust valve, Reinstalled after repair by Avian Aeronautics
(See Yellow tag dated 12/12/2025) Drained oil, removed filter, cut and inspected for
contaminates, none found. Installed new filter P/N AA 48103-2 and serviced with 12
qts Phillips 20W50XC oil. All AD's checked through Biweekly 2025-25 none found.
C/W AD 2013-10-04 (Exhaust visual inspection) Found ok at this time. Ground ran
ops and leak checked good. I certify that this engine has been inspected and has been
found to be in an airworthy condition at this time. Airwerks LLC. Marvin Coolidge

Marvin Coolidge AP2757107IA.

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE SERIAL NUMBER

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IN SERVICE DATE

0	7	1	7	0	2
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 ENG.

1	9	7	0
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T.T.

DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

