

For Training Use Only

LYCOMING

A Textron Company

ENGINE LOG

SSP-1872-1

For Training Use Only

LYCOMING
A Textron Company

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

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING TIO-540-AH1A RL-10010-61A
MAKE MODEL SERIAL
FROM June 20 10 TO _____ 20 _____
DETAILING TIME FROM TACH: & AFT: 1266.50 TO _____
HOURS HOURS

SSP-1872-1

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October 1994

1897.7 } 26.7 Oil
1876-0 } 31.8 Crystals
1844-2 } 24.5
1819.7 } 32
1787.6 } 39
1747.9 } 26.8
1721.6 }
WEARABLE SPECIMENS

SERVICEABLE PART

Manufacturer LYCOMING ENGINES
 Part Name AIRCRAFT ENGINE
 Model No. TTO540-AH1A
 Serial No. RL - 10010-61A
 Remarks _____

The aircraft engine or accessory identified above was:
Rebuild

and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the work performed are on file at Lycoming Engines under order no: AR427771

Date 4/10
 Signed Charles Hess
 Signature of Authorized Person

FOR: **LYCOMING**
A Textron Company
 652 Oliver Street
 Williamsport, PA 17701 USA
 Production Certificate #3

Form 302A (3/04-LM)



ENGINE DESCRIPTION

Mfg.	LYCOMING	Place	Williamsport, PA 17701	Date	6/20/10
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.

Form No. 2481 (3/04-LM)

LYCOMING

A Textron Company

652 Oliver Street
Williamsport, PA. 17701 U.S.A.

This engine has been rebuilt in accordance with the applicable Lycoming specifications. All applicable Federal Aviation Administration Airworthiness Directives and 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 new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: **TIO-540-AH1A**

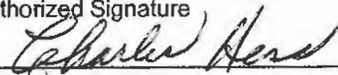
Serial #: **RL-10010-61A**

Total Time: **0.0**

Work Order #: **AR427771**

Date Completed: 4/31/10

Authorized Signature



Lycoming Engines

652 Oliver Street
Williamsport, PA. 17701
Production Certificate # 3

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GREELEY, CO
REPAIR STATION BX4R092M
(970) 353-9200

06-18-10 Tach 1266.50 Hobbs 1266.50 N3HY sn 3257252
AFTT 1266.50 Eng TTSFRM 0.00 Prop TTSN 1266.50 TSMOH 0.00

Installed Lycoming factory rebuilt engine Model # TIO-540-AH1A sn RL-10010-61A
Lycoming WO# AR427771, TC # E14EA. Engine supplied with: crankshaft sn V537957887,
crankcase match No. 436, PAM fuel injector pn 61M22458 sn 70CB7903 setting 2576554-2,
Kelly alternator pn 32C22492 sn K030917, LH slick magneto pn 66LC35SDNP sn
10030649, RH slick magneto pn 66LP-0SCNP sn 10020125, LH slick ignition harness pn
67J20609, RH slick harness pn 67J20608, Sky-Tec starter pn 31B22101 sn F4P-061006,
consolidated fuel pump pn 62E23186 sn NAN011FP, champion spark plugs pn 1182-L7,



4535 Airport Approach Rd Duluth, MN 55811
 (218) 727-2911
 Cirrus Authorized Service Center
 Cessna Authorized Service Facility

Da

Date: 4/25/2011; Aircraft: N3HY; Type: PA-32R-301T; S/N: 3257252; Hobbs: 1330.1; Total Time: 1330.1;
 Engine - Type: TIO-540-AH1A, S/N: RL-10010-61A, Time: 63.6, SMOH: 63.6
 Shop Order #: 11-7835
 Changed oil and filter P/N CH48110-1. Serviced with 11 qts Aeroshell 100W Plus. Cut open and inspected oil filter, no discrepancies noted. Obtained and sent SOAP sample to Blackstone Labs for analysis. Operational and leak checks good.

Signature: 
 Steven J. LaMourea A&P 2841160

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License Number

ENGINE LOG

Serial No. _____

Date

Time

Hrs

Min

REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Signature

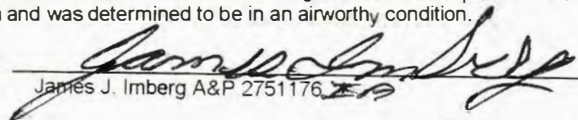
License Number



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Date: 7/28/2011; Aircraft: N3HY; Type: PA-32R-301T; S/N: 3257252; Hobbs: 1336.6; Total Time: 1336.6;
 Engine - Type: TIO-540-AH1A, S/N: RL-10010-61A, Time: 70.1, SMOH: 70.1
 Shop Order #: 11-7897
 Performed Annual / 100 Hr inspection of engine IAW Monaco Air Inspection checklist. Complied with A.D. 2008-14-07 by inspection of fuel injection lines per para. j & k. Ok at this time. Next inspection due: 1436.6 hours.
 A.D. 2011-13-03 is N/A because turbo had more than 50 hours T.I.S. before July 13, 2011.
 Cleaned main fuel screen, finger screen in fuel metering unit, and drained all fuel sumps.
 Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 77/80, #2 76/80, #3 77/80, #4 76/80, #5 77/80, #6 77/80.
 Cleaned and tested all spark plugs. Adjusted magneto to engine timing as required.
 Inspected exhaust and intake systems. Inspected air filter. Lubed all controls and checked travel. Engine run up, leak, and ops check ok. I certify that this engine has been inspected in accordance with an Annual / 100 hour inspection and was determined to be in an airworthy condition.

Signature:


 James J. Imberg A&P 2751176

nt of a

Page Total

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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. _____ **For Training Use Only**

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			<p>Primeplanes Aircraft Services Inc. 240 Aviation Drive North Suite 102 Naples, Florida 34104 ph. 239-659-4005</p> 		
			<p>REG. N3HY TYPE TIO-540-AH1A HOBBS 1485 TSMOH 218.5</p> <p>Drained engine oil, removed filter; Cut filter and inspected element for metal particulates; None found; Installed new filter, Champion P/N CH48110-1, torqued and saftied as required; Serviced engine with 12 quarts of Aeroshell 100 Plus; Performed run-up and leak check; No discrepancies noted at this time. ---END---</p>		
			<p>Signature <u>Brian Thoresen</u> Date 3/14/2013</p>		
			<p>Page Total _____</p> <p>Brought Forward _____</p> <p>Total to Date _____</p>		

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

ENGINE LOG

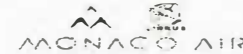
Serial No. _____

Date	T Hrs	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
		<p>4535 Airport Approach Rd. Duluth MN 55811 (218) 727-2911 Cirrus Authorized Service Center Cessna Authorized Service Facility</p> <p>MONACO AIR</p> <p>Date: 9/13/2013 Aircraft: N3HY; Type: PA-32R-301T; S/N: 3257252; Hobbs: 1516.5; Total Time: 1516.5; Engine - Type: TIO-540-AH1A, SiN: RL-10010-61A, Time: 250.0, SMOH: 250.0 Shop Order #: 13-8612</p> <p>Performed Annual/100 Hr. inspection on engine IAW Monaco Air engine inspection checklist. Researched ADs thru current Bi-Weekly 2013-16. Changed engine oil and filter, Champion P/N CH48110-1. Serviced with 11 qts. Aeroshell 100W Plus engine oil. Performed particulate inspection on filter, checked good. Run-up and leak checks good. Cleaned and tested spark plugs. Adjusted magneto to engine timing as necessary. Cleaned fuel screen, drained all fuel sumps. Checked all engine intake and exhaust system components. Checked travels and lubricated engine controls. Performed cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 78/80. #2 76/80. #3 78/80. #4 77/80. #5 78/80. #6 76/80. Master orifice reading of 44/80. AD 2012-19-01, Crankshaft, N/A by engine and crankshaft S/N. Complied with AD 2011-26-04, fuel injector line inspection, by inspecting lines IAW AD instructions, no discrepancies noted at this time. Next inspection due 1616 Hrs I certify that this engine has been inspected in accordance with a 100 hr inspection and was determined to be in an airworthy condition.</p>		
		<p>Signature: <u>Steven J. LaMourea</u></p> <p>Steven J. LaMourea A&P 2841160</p>		

ENGINE LOG

Serial No. _____ **For Training Use Only**

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			5/14/2019 TACH: 1876		
			Drained oil and changed oil filter--Inspected filter element for contaminants--none found--Inspected suction screen--Serviced with 10 qts Aeroshell W100 plus oil--removed propeller--Desludged cranshaft--Replaced crankshaft seal--Reinstalled propeller with new O ring--Torqued and safetied propeller--Replaced all 6 rocker cover gaskets with silicone gaskets--Torqued all oil return line clamps--Removed engine baffle @ #6 cylinder/oil cooler and repaired by welding--PAinted and reinstalled baffle and oil cooler--Wash down--Run up and leak checked--Checks OK		
			R Dudley A/P 2313282 <i>Ronald Dudley</i>		
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					



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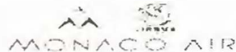
Date	Signature	License Number
Date: 8/22/2019; Aircraft: N3HY; Type: PA-32R-301T; S/N: 3257252; Hobbs: 1896.1; Total Time: 1896 1; Engine - Type: TIO-540-AH1A, S/N: RL-10010-61A. Time: 577.7, SMOH: 577.7 Shop Order #: 19-10543	<i>Chris Conkins</i>	
Removed engine cowling to inspect for oil leak. Found crankshaft nose seal leaking. Removed propeller to gain access to crankshaft nose seal. Removed leaking nose seal P/N LW13792-P50. Seal removed was noted to be the incorrect part for this engine. Installed new Lycoming nose seal P/N LW15628 per Lycoming TIO-540-AH1A parts manual. Installed nose seal IAW Lycoming Service Instruction No. 1324C using Dow Corning 737 Neutral cure sealant. Re-installed propeller with new O-ring, torqued and safetied IAW Piper PA32R-301T Maintenance Manual. Ground ran engine. no leaks nor abnormalities noted. Re-cowled engine.		
Signature		
Chris Conkins A&P 2849127		
Page Total		
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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.

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(218) 727-2911
Cirrus Authorized Service Center

Date

Date 9/27/2019 Aircraft: N3HY; Type: PA-32R-301T; S/N: 3257252; Hobbs: 1897.7; Total Time: 1897.7 Engine
- Type: TIO-540-AH1A, S/N: RL-10010-61A, Time: 631.2, SMOH: 631.2
Shop Order # 19-10592

Performed Annual / 100 Hour inspection on engine IAW PA-32R-301T AMM section 5-20-00 inspection checklist
and PA-32R-301T AMM.

Researched ADs thru current Bi-Weekly 2019-19.

Changed engine oil and filter, Tempest P/N AA48110-2. Serviced with 11 qts Aeroshell 100W Plus engine oil.

Sent oil sample to Blackstone. Performed particulate inspection on filter, checked good. Sent in Blackstone oil
sample. Run-up and leak checks good.

Cleaned and tested spark plugs, checked magneto to engine timing.

Cleaned fuel screen, main fuel strainer, drained all fuel sumps.

Checked all engine intake and exhaust system components.

Checked travels and lubricated engine controls.

Performed cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows:
#1 74/80, #2 76/80, #3 76/80, #4 74/80, #5 74/80, #6 72/80. Engine run up, leak, and ops checks ok.

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

Signature

James Imberg A&P 2751176-FA

License
Number

Date

REG. N3HY

MODEL TIO-540-AH1A

S/N RL-10010-61A

DATE 5/26/2020

→ DRAINED OIL. SERVICED ENGINE WITH 11 QTS OF AEROSHELL 100+. TEST RAN AND LEAK
CHECKED. NO DEFECTS NOTED.

→ REMOVED, CUT OPEN, AND INSPECTED OLD OIL FILTER. NO CONTAMINATION NOTED.
INSTALLED A NEW AA48110-2 OIL FILTER. TORQUED AND SAFTIED.

→ TOOK OIL SAMPLE TO SEND TO BLACKSTONE LABS.

HERNANDO COUNTY AIRPORT
2495 BROAD STREET
BROOKSVILLE, FLORIDA 34604
PHONE (352) 796-5173
FAX (352) 799-4681
FAA REPAIR STATION #TZ4R562M

W.O. 20-6169

HOBBS 1939.3

T.T 672.8

TSMOH

MAINTENANCE RELEASE:

The aircraft and/or component identified above was repaired and inspected in accordance with
current instructions contained in The Piper PA-32R-301T Maintenance Manual and the maintenance
rules of the F.A.R.'s under which the operator is certified. The aircraft and/or component was
determined to be in airworthy condition and is approved for return to service as per these
requirements. Pertinent details of the repair are on file at this agency under work order #20-6169.

AUTHORIZED INSPECTOR:

License
Number

