ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 18281841 N120HP ENGINE MODEL AND SERIAL 10-540 ABIAS 5/N: RL-17040-48E

Rebuilt Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. 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.

Part Number:

RENPL-RT10221

Serial Number RL-17040-48E

Engine Model IO-540-AB1A5

Work Order

AR598569

Total Time

0.0

Form 2481 Rev 05/13

Production Certificate #3

652 Oliver Street Williamsport, PA 17701 U.S.A Lycoming Engines is a division of Avco Corporation N120HP 01-06-2015 Actt: 2079.0 Engine tt: 0.0

Propeller SMOH: 0.0

Removed Lycoming IO-540-AB1A5, S/N: L-31270-48E and installed Factory Rebuilt Engine IO-540-AB1A5, S/N: RL-17040-48E. Engine came with build order # AR598569 from Lycoming with new Magnetos, Ignition harness', Injectors, fuel pump, fuel control and spark plugs.Removed Prop Governor P/N: DC290D1-F/T8, S/N: 060690 and reinstalled after Overhaul by Quality Aircraft W.O # WO1170017875. Replaced Prop control P/N: MC9862067-1, Throttle control P/N: MC9863055-9 and Mixture control P/N: MC-600-72. Ran aircraft and found to be operating within factory limits with no leaks. Approved for return to service.

Russell Scott A&P 3401594 IA

N120HP 04-23-2015 Actt: 2120.4

Engine tt: 2015.7 Propeller tt: 2015.7

Performed OHP 50hr inspection. Drained oil, replaced oil filter P/N: CH48110-1 and serviced engine with 9 qts Aeroshell 100 W oil. Replaced oil Temp sensor. Replaced oil pressure transducer. Aircraft approved for return to service.

N120HP 07-01-2015 Actt: 2167.2

Engine tt: 88.2

Performed Cylinder compression check with the following results :#1 78/80,#2 76/80,#3 78/80,#4 72/80,#5 78/80,#6 78/80. Drained oil, replaced oil filter P/N :CH48110-1 and serviced engine with 8 qts. Aeroshell 100W oil.

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

Russell Scott A&P 3401594 IA

N120HP

09-29-2015

Actt: 2223.7

Performed OHP 50hr inspection. Drained oil, replaced oil filter

P/N: CH48110-1 and serviced engine with 9 qts Aeroshell 100 W oil.

Aircraft approved for return to service.

N120HP 11-10-2015 Actt: 2264.0

* C/W AD 15-19-07 Fuel lines inspect, Due again @ Actt: 2374.0

Performed Cylinder compression check with the following results: #1 78/80,#2 76/80,#3 78/80,#4 75/80,#5 74/80,#6 78/80. Drained oil, replaced oil filter P/N: CH48110-1 and serviced engine with 9 qts.

Aeroshell 100W oil.

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

Russell Scott A&P 34015941A

N120HP 01-04-2016

Actt: 2316.0

Performed OHP 50hr inspection. Drained oil, replaced oil filter

P/N: CH48110-1 and serviced engine with 9 qts. Aeroshell 80W.

Approved for return to service.

N120HP 03-16-2016 Actt: 2373.1

* C/W AD 15-19-07 Fuel lines inspect, Due again @ Actt: 2483.1
Performed Cylinder compression check with the following results:#1 78/80,#2 76/80,#3 78/80,#4 78/80,#5 78/80,#6 78/80. Drained oil, replaced oil filter P/N: CH48110-1 and serviced engine with 9 qts.
Aeroshell 100W oil. Replaced 6 lower spark plugs P/N: REM38E.
I certify this Engine has been inspected in accordance with a 100 hr. inspection and was determined to be in airworthy condition.

Russell Scott A&P 3401594 IA

N120HP 06-03-2016

Actt: 2457.9

Performed OHP 50hr inspection. Drained oil, replaced oil filter P/N: CH48110-1 and serviced engine with 9 qts. Aeroshell 100W.

Approved for return to service.

09-30-2016 Actt: 2500.2

Engine tt: 421.2

Dranallar CMOH: 40

Propeller SMOH: 421.2

*NOTE: AD 13-11-11 Oil pressure switch due Replace @ Actt: 5079.0 *C/W FAR 91.207(d) ELT test and inspect. New battery due Feb 2019

Performed Annual inspection in reference to CFR 43

Appendix"D". Replaced Aft inboard fuel sump drain on L/H wing.

Replaced L & R wing tip strobes P/N: 7081800. Replaced tail beacon bulb P/N: 34-0041987-02. Installed alternator filter P/N: LS03-01004.

I certify this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

THS

*Note: Change of engine oil TYPE and manufacture.

02-10-2017

Actt: 2554.5

Performed OHP 50hr inspection. Drained oil, replaced oil filter P/N: CH48110-1 and serviced engine with 9 qts Phillips XC 20W-50

oil. Approved for return to service.

Russell Scott A&P 3401594 IA

N120HP

06-02-2017

Actt: 2597.7

Performed OHP 100 hr. Inspection. Performed cylinder compression check with the following results: 1 78/80,2 72/80,3 76/80,4 76/80,5 72/80,6 76/80. C/W 500 hr magneto inspection (Quality Aircraft Accessories W/O # 026170) P/N: 6351, S/N: 13040450 on L/H magneto only. Drained oil, changed oil filter (CH48110-1) and serviced engine with 9 qts. Phillips XC20W-50.

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

08-08-2017

Actt: 2647.9

Performed OHP 50 hr. Inspection. Drained oil, changed oil filter (CH48110-

1) and serviced engine with 9 qts. Phillips XC20W-50.

Aircraft approved for return to service.

Russell Scott A&P 3401594 IA

N120HP

11-17-2017

Actt: 2693.7

Engine tt since new: 614.7

NOTE: AD 13-11-11 Oil press switch due replacement @ Actt: 5079.0 NOTE: AD 17-16-11 Connecting rods N/A - Not installed on engine C/W AD 15-19-07 Fuel Injector lines Due again in 110 hrs. @ 2803.7

Performed OHP 100 hr. Inspection. Performed cylinder compression check with the following results: 1 76/80,2 70/80,3 68/80,4 78/80,5 70/80,6 72/80. Cold. Drained oil, changed oil filter (CH48110-1) and serviced engine with 8 qts. Phillips XC20W-50.

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

Russell Scott A&P 3401594 IA

Kurt

N120HP 01-31-2018 Actt: 2756.6

C/W OHP 50hr. Inspection. Drained oil, replaced oil filter CH48110-1 and serviced engine with 8 qts. Phillips XC 20W-50 oil.

Russell Scott A&P 3401594 IA

N120HP 02/26/2018

Actt: 2764.8

Removed fuel servo P/N: RSA-5AD1 (AV2576544-3), S/N: AV171462239 due to stiff mixture arm and loose base plate. Sent to Avstar for overhaul W/O#: 268911.Reinstalled Fuel servo on aircraft and adjusted mixture and Idle RPM to within factory limits.

*Note: AD 2009-02-03 was complied with at overhaul by installing Gasket AV2577258.

*Note: AD 2011-15-10 and AD 2012-03-06 are N/A by lot number of diaphragm assy.

*Note: SB PRS-110 N/A by part number.

Approved for return to service Russell Scott A&P 3401594 IA

twisc+

C/W: AD 15-19-07 Fuel lines insp.

N120HP 05/02/2018 ACTT :2797.0

Engine TT: 718.0

Performed 100hr / Annual inspection. Drained oil, replaced oil filter P/N: CH48110-1 and serviced with 9qts. Pillips, XC 20W/50. Performed cylinder compression check with the following results #1 76/80,#2 78/80,#3 76/80,#4 78/80,#5 70/80,#6 72/80.

Ran aircraft, all systems check within limits, no leaks .

I certify this engine has been inspected in accordance with an Annual/ 100hr inspection and was determined to be in airworthy condition.

Michael Lane A&P 3511881 IA

08/01/2018 N120HP

ACTT: 2808.7 Hrs Engine TT: 729.7

Performed OHP 50 Hr. inspection. Drained engine oil, replaced oil filter PN CH48110-1 and serviced with 8qts. Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. All work done in accordance with Lycoming MM and Cessna MM. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery 08/29/2018 N120HP

ACTT: 2898.5 Hrs Engine TT: 819.5 Hrs

Performed OHP 100 Hr service inspection on engine, drained engine oil, changed filter, P/N CH48110-1 and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. Removed and replaced all spark plugs. Cylinder compressions, (1)65/80, (2)60/80,(3)65/80, (4) 76/80, (5) 70/80, (6)72/80. All work done in accordance with Lycoming MM and Cessna maintenance manual. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery

11/20/2018 N120HP

ACTT: 2903.3

Removed and replaced left magneto P/N: 6351 S/N: 10120396 and right magneto P/N: 6351 S/N: 10010731. Removed and replaced left hand magneto harness P/N: M2961. Work done in reference to Lycoming IO-540 Maintenance manual. Aircraft approved to return to service

Shelton Montgomery

A&P: 4055175

01/23/2019 ACTT: 2964.2

Engine TT: 885.2

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. All work done in reference with Lycoming MM and Cessna MM. Leak check performed, aircraft approved for return to service.

A&P 4055175

Shelton Montgomery

03/12/2019

N120HP

ACTT: 3006.2 Hrs

Engine TT: 927.2 Hrs

Performed OHP 100 Hr service inspection on engine, drained engine oil, changed oil filter, P/N CH48110-1 and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. Cylinder compressions, (1)76/80, (2)74/80,(3)75/80, (4) 74/80, (5) 72/80, (6)70/80. All work done in accordance with Lycoming MM and Cessna maintenance manual. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery

ACTT: 3056.0 Engine TT: 977.0

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. All work done in reference to Cessna Maintenance Manual. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery

06/04/2019 N120HP

ACTT: 3085.9 Engine TT: 1006.9

C/W: AD 15-19-07 Fuel lines insp.

Performed 100hr / Annual inspection in reference to 14 CFR 43 appendix D.

I certify this engine has been inspected in reference with an Annual / 100hr inspection and was determined to be in airworthy condition.

Michael Lane A&P 3511881 IA

07/31/2019 N120HP

ACTT: 3112.6

Engine TT: 1033.6

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil. All work done in reference to Cessna Maintenance Manual. Leak check performed, aircraft approved for return to service.

Shelton Montgomery

A&P: 4055175

10/31/2019 N120HP

ACTT: 3158.5 Hrs

Engine TT: 1079.5 Hrs

Performed OHP 100 Hr service inspection on engine, drained engine oil, changed oil filter, P/N CH48110-1 and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. All work done in reference with Lycoming Maintenance Manual and Cessna MM. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery 06/03/2020 N120HP

ACTT: 3203.7 Engine TT: 1124.7

C/W: AD 15-19-07 Fuel lines insp.

Performed 100hr / Annual inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. Cylinder compressions, (1) 78/80, (2) 76/80, (3) 72/80, (4) 74/80, (5) 40/80, (6) 72/80. Removed cylinder #5 (P/N: LW13870, S/N: 117535), overhauled by D&B Aircraft Engines Inc., refer to invoice # 17523 for details. Ran aircraft, all systems check within limits, no leaks. I certify this engine has been inspected in accordance with an Annual / 100hr inspection and was determined to be in airworthy condition.

Michael Lane A&P 3511881 IA

08/04/2020

N120HP

ACTT: 3251.9

Engine TT: 1172.9

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz of Camguard oil supplement. All work done in reference to Cessna Maintenance Manual. Leak check performed, aircraft approved for return to service.

Shelton Montgomery

A&P: 4055175

09/14/2020 N120HP

ACTT: 3309.2 Hrs

Engine TT: 1230.2 Hrs

Performed OHP 100 Hr service inspection on engine. Drained engine oil, changed oil filter (P/N CH48110-1) and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz Camguard oil supplement. Replaced 1 spark plug (P/N: REM38E). Cylinder compression: (1) 80/80, (2) 74/80, (3) 80/80, (4) 80/80, (5) 78/80, (6) 78/80. All work done in reference with Lycoming Maintenance Manual and Cessna MM. Leak check performed, aircraft approved for return to service.

A&P 4055175 **Shelton Montgomery**

11/19/20 N120HP

ACTT: 3362.2 Engine TT: 1283.2

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz of Camguard oil supplement. All work done in reference to Cessna Maintenance Manual.

Michael lane

A&P 3511881 IA

01/13/2021 N120HP

15

ACTT: 3409.4 Engine TT: 1330.4

Performed OHP 100 Hr service inspection on engine. Drained engine oil, changed oil filter (P/N CH48110-1) and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz Camguard oil supplement. Cylinder compression: (1) 76/80, (2) 78/80, (3) 80/80, (4) 80/80, (5) 72/80, (6) 76/80. Removed both Magnetos, 500 Hr Inspection performed by D&B Aircraft Engines Inc., refer to W/O# 16938 for further details, Re-Installed. All work done in reference with Lycoming Maintenance Manual and Cessna MM. Lesk check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery

07/19/2021 N120HP

10

ACTT: 3448.6 Engine TT: 1369.6

C/W: AD 15-19-07 Fuel lines insp.

Performed Annual inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz CamGuard oil supplement. Cylinder compressions: (1) 80/80, (2) 78/80, (3) 78/80, (4) 80/80, (5) 68/80, (6) 78/80. Replaced 6 spark plugs (P/N: REM38E). Ran aircraft, all systems check within limits, no leaks. I certify this engine has been inspected in accordance with an Annual / 100hr inspection and was determined to be in airworthy condition.

Michael Lane A&P 3511881 IA< 08/11/2021 N120HP

ACTT: 3463.0

Engine TT: 1384.0

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz of Camguard oil supplement. All work done in reference to Cessna Maintenance Manual. Leak check performed, aircraft approved for return to service.

Shelton Montgomery

A&P: 4055175

OTHS

08/11/2021

N120HP

ACTT: 3463.0

Engine TT: 1384.0

Performed OHP 50 hour inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz of Camguard oil supplement. All work done in reference to Cessna Maintenance Manual. Leak check performed, aircraft approved for return to service.

Shelton Montgomery

A&P: 4055175

12/20/2021 N120HP

ACTT: 3514.5

Engine TT: 1435.5

Performed OHP 100 Hr service inspection on engine. Drained engine oil, changed oil filter (P/N CH48110-1) and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil and 12oz Camguard oil supplement. Cylinder compression: (1) 78/80, (2) 74/80, (3) 78/80, (4) 78/80, (5) 67/80, (6) 78/80. All work done in reference with Lycoming Maintenance Manual and Cessna MM. Leak check performed, aircraft approved for return to service.

A&P 4055175 Shelton Montgomery

06/08/2022

N120HP

ACTT: 3537.9 Engine TT: 1458.9

C/W: AD 15-19-07 Fuel Lines Inspection

Performed Annual inspection. Drained engine oil, replaced oil filter and serviced with 8 quarts of Phillips X/C SAE 20W-50 oil. Cylinder compressions: (1) 72/80, (2) 68/80, (3) 74/80, (4) 78/80, (5) 68/80, (6) 78/80. Ran aircraft, all systems check within limits, no leaks. I certify this engine has been inspected in accordance with an Annual / 100hr inspection and was determined to be in airworthy condition.

Michael Lane A&P 3511881 IA



Lawton Aviation Services PO Box 531 Lawton, OK 73502 580-351-2900

DATE: 8/8/2022

TAIL: N120HP

TAC:3744.9

REPLACED RING GEAR, FLYWHEEL AND STARTER.
REINSTALLED ALL ENGINE COWLING AND TESTEDRAN ENGINE- GOOD. RETURNED TO SERVICE.

KENNETH WILLIAMS

A&P 2988462



Lawton Aviation Services PO Box 531 Lawton, OK 73502 580-351-2900

DATE: 1/20/2023

TAIL: N120HP

HOBBS: 3767.5

Ran aircraft, drained oil, removed oil filter and cut and checked for metal- none found. Replaced with new CH48110-1 oil filter and filled with 7qts 20W50XC. Add one bottle Camguard. Washed engine. Serviced all main and nose tires with nitrogen. OPS check- good. Returned to service.

KENNETH WILLIAMS

A&P 2988462

N120HP - Engine Log	Cessna 182T	Serial# 18281841
Owner:	Lycoming IO-540-AB1A5 Serial# RL-17040-48E	Tach Time: 3786.6 (Hour Meter)
Date: 7/12/2023		TT= 1707.6
Description of work:	ed spark plugs. Checked ignition timin	ng. Applied RTV to tear on SCAT tube at
fresh air inlet.		
Serviced engine with oil 8	quarts Phillips XC 20W50 and 12 oz.	CamGuard and installed new oil filter
Z. Serviced engine with one	and inspected old filter for metal-nor	ne present. Safetied starter mounting bol
	ions:#1 72/80, #2 72/80, #3 72/80, #	
4. Installed SAF-AIR products	P5000 oil drain valve on oil sump. T	orqued and safetied. leak/operational
checked-good.		
	ir filter part# P106150. Verified torg	ue and safetied alternator hold down bol
Stop drilled R/H forward baff		
		sampleted by DSR Engines/Details
		completed by D&B Engines(Details
	eak and Operational checked-good.	
Updated AD compliance list,	current through 7/12/2023. Complie	ed with AD 15-19-07 Fuel Line Inspection-
(Next Due 7/2024 or 3886.6)).	
Completed 100 hour inspect	tion this date in accordance with FAR	43 Appendix D and approved
maintenance/service manua	al check list. Checked operation of all	I systems and found to be als
I cortife the till a	in check list. Checked operation of all	systems and found to be ok.
I certify that this Engine had	hoon inspected in	
to be in airworthy condition	been inspected in accordance with	a 100hr inspection and was determined

N120HP Hobbs 3803.6 2293.45 TTAF 3803.6 EngTSO 1724.6 Prop TSO 1724.6 Engine log August 1, 2024

Engine warmed up. Drained engine oil, refilled with 9 quarts of P66 XC 20W50 oil. Removed oil filter, inspected filter no faults found. Installed new CH48110-2 oil filter. Installed new engine air filter. Preformed compression checks, #1 74/80 #2 76/80 #3 80/80 #4 76/80 #5 78/80 #6 74/80. Removed, cleaned inspected and reinstalled with new gaskets the spark plugs. Cleaned and serviced fuel strainer. Washed down engine, preformed ground leak and ops checks, no faults found. Preformed static leak check of induction and exhaust system, no faults found. AD 15-19-07 CW by leak check inspection. See AD list.

I certify that this engine has been inspected, using manufacturers data, IAW an Annual inspection, and found to be in an airworthy condition.

Chris Pittman A&P 3067255 IA