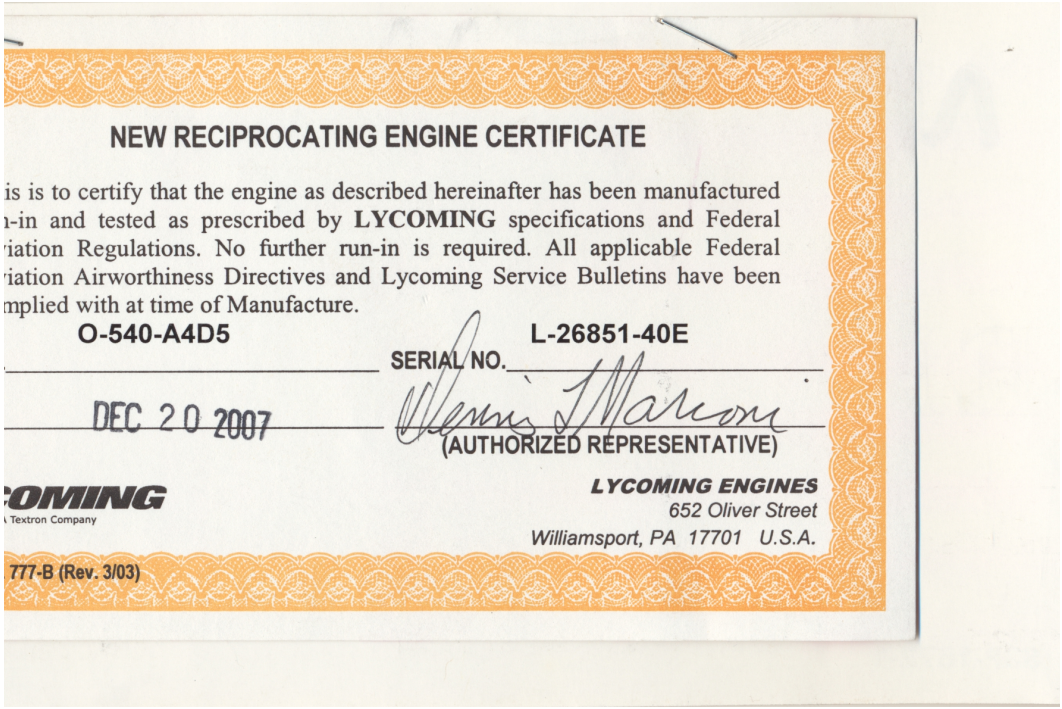
Caption



NEW RECIPROCATING ENGINE CERTIFICATE

is is to certify that the engine as described hereinafter has been manufactured
ı-in and tested as prescribed by **LYCOMING** specifications and Federal
iation Regulations. No further run-in is required. All applicable Federal
iation Airworthiness Directives and Lycoming Service Bulletins have been
mplied with at time of Manufacture.

O-540-A4D5 SERIAL NO. L-26851-40E

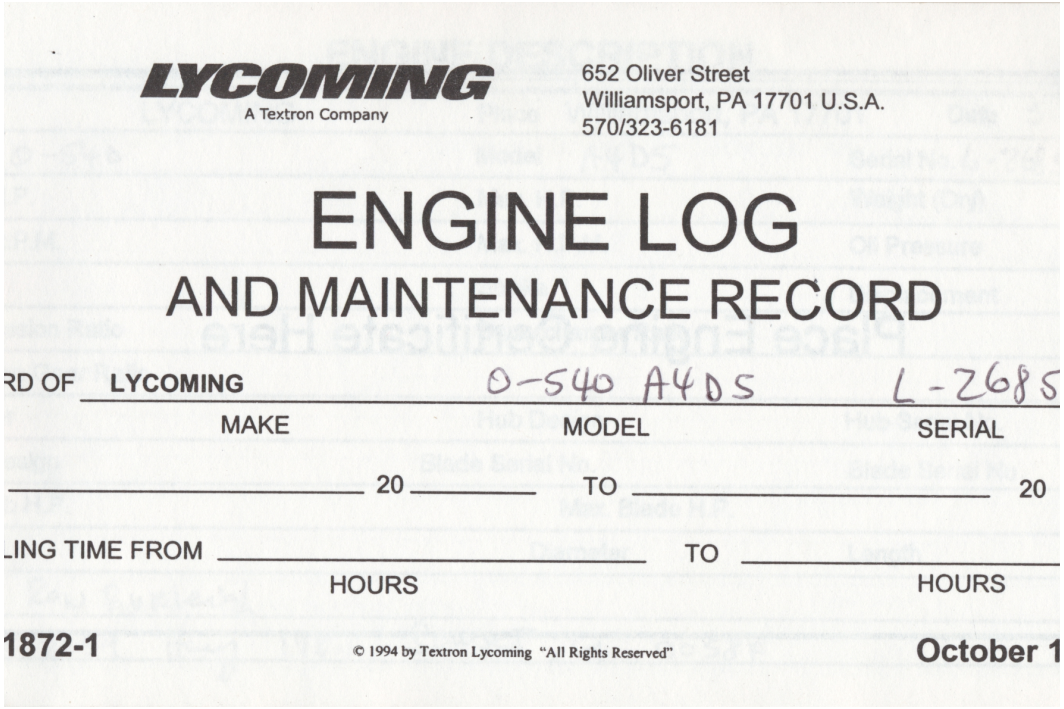
DEC 20 2007 (AUTHORIZED REPRESENTATIVE)

COMING
A Textron Company

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

777-B (Rev. 3/03)

Caption



LYCOMING
A Textron Company

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

ENGINE LOG
AND MAINTENANCE RECORD

RD OF LYCOMING O-540 A4D5 L-2685
MAKE MODEL SERIAL

_____ 20 _____ TO _____ 20

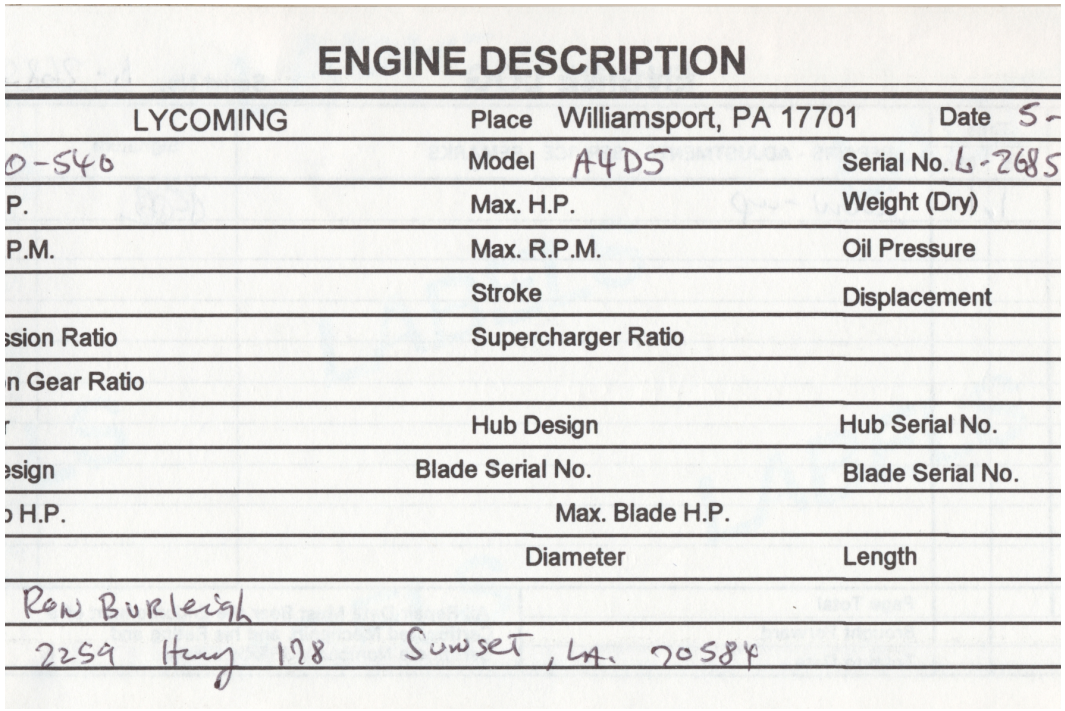
LING TIME FROM _____ TO _____
HOURS HOURS

1872-1

© 1994 by Textron Lycoming "All Rights Reserved"

October 1

Caption

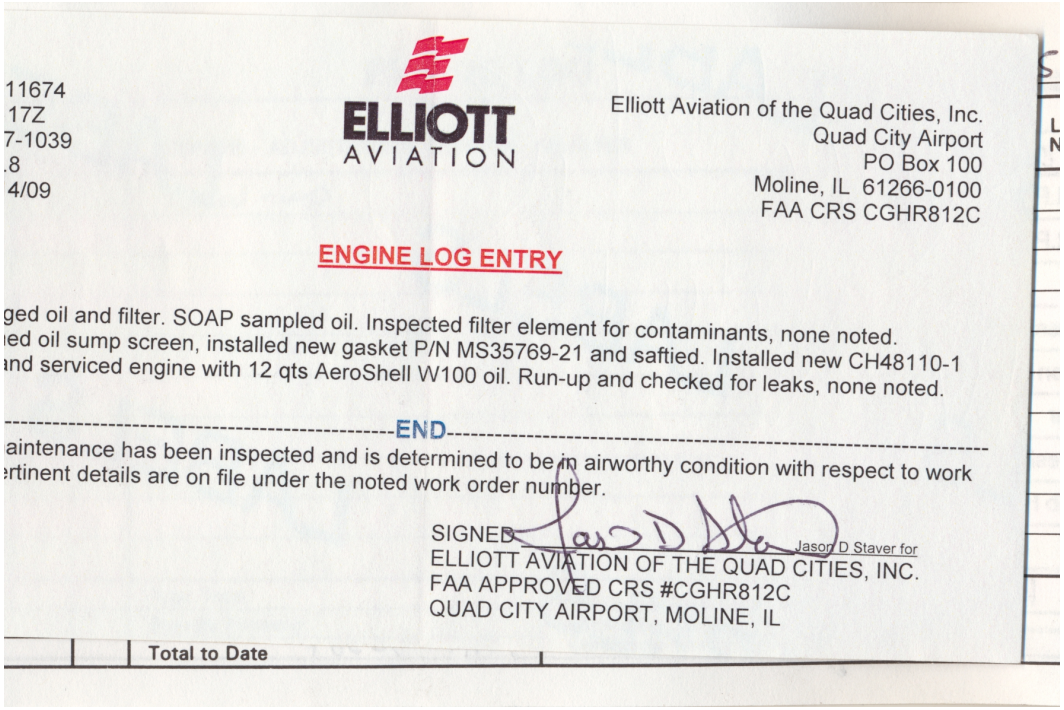


ENGINE DESCRIPTION

LYCOMING	Place Williamsport, PA 17701	Date 5-
O-540	Model A4D5	Serial No. L-2685
P.	Max. H.P.	Weight (Dry)
P.M.	Max. R.P.M.	Oil Pressure
	Stroke	Displacement
ssion Ratio	Supercharger Ratio	
n Gear Ratio		
	Hub Design	Hub Serial No.
esign	Blade Serial No.	Blade Serial No.
H.P.	Max. Blade H.P.	
	Diameter	Length

Ron Burleigh
2259 Hwy 178 Sunset, LA. 70584

Caption



11674
17Z
7-1039
.8
4/09

ELLIOTT AVIATION

Elliott Aviation of the Quad Cities, Inc.
Quad City Airport
PO Box 100
Moline, IL 61266-0100
FAA CRS CGHR812C

ENGINE LOG ENTRY

ged oil and filter. SOAP sampled oil. Inspected filter element for contaminants, none noted.
ed oil sump screen, installed new gasket P/N MS35769-21 and saftied. Installed new CH48110-1
and serviced engine with 12 qts AeroShell W100 oil. Run-up and checked for leaks, none noted.

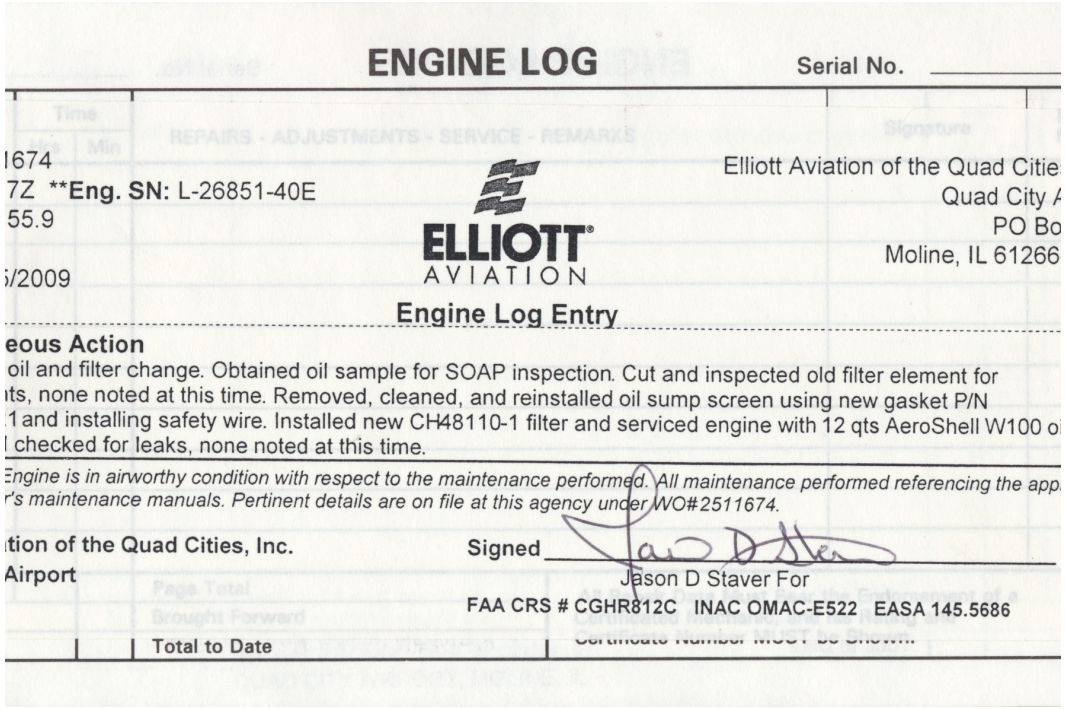
----------END----------

aintenance has been inspected and is determined to be in airworthy condition with respect to work
rtinent details are on file under the noted work order number.

SIGNED Jason D Staver for
ELLIOTT AVIATION OF THE QUAD CITIES, INC.
FAA APPROVED CRS #CGHR812C
QUAD CITY AIRPORT, MOLINE, IL

		Total to Date	

Caption



ENGINE LOG

Serial No. _____

1674
7Z **Eng. SN: L-26851-40E
55.9
5/2009

ELLIOTT AVIATION

Elliott Aviation of the Quad Citie
Quad City A
PO Bo
Moline, IL 61266

Engine Log Entry

eous Action

oil and filter change. Obtained oil sample for SOAP inspection. Cut and inspected old filter element for
nts, none noted at this time. Removed, cleaned, and reinstalled oil sump screen using new gasket P/N
1 and installing safety wire. Installed new CH48110-1 filter and serviced engine with 12 qts AeroShell W100 o
l checked for leaks, none noted at this time.

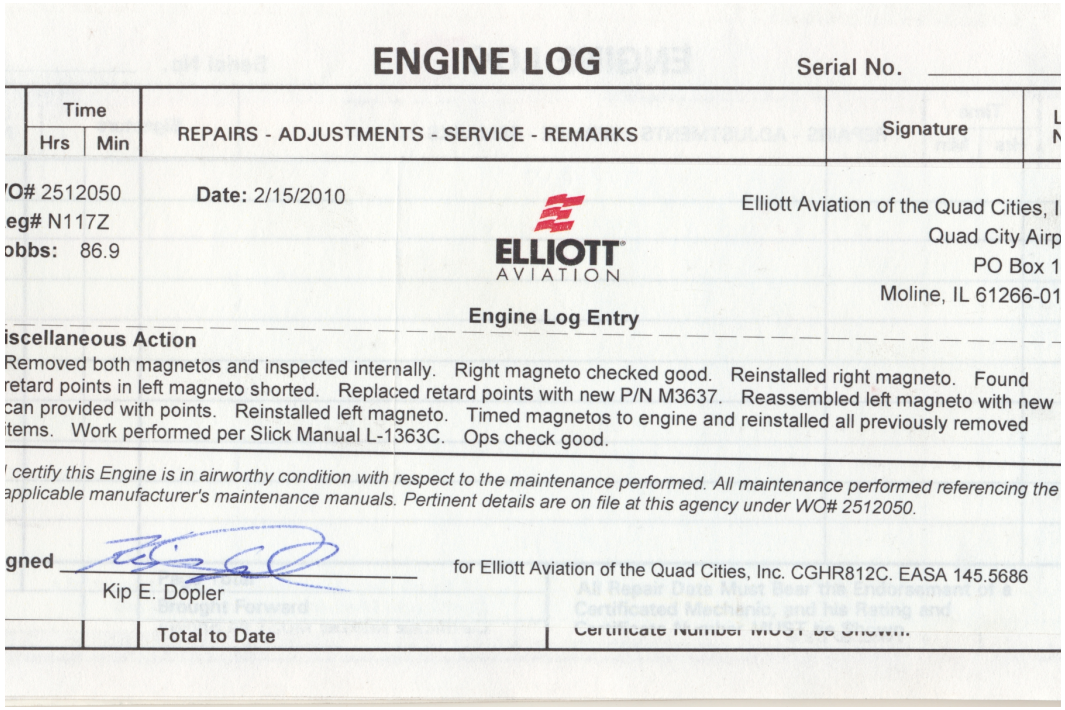
*Engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the app
r's maintenance manuals. Pertinent details are on file at this agency under WO#2511674.*

tion of the Quad Cities, Inc.
Airport

Signed _____
Jason D Staver For
FAA CRS # CGHR812C INAC OMAC-E522 EASA 145.5686

Total to Date

Caption



ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature

O# 2512050 **Date:** 2/15/2010

eg# N117Z

obbs: 86.9

ELLIOTT AVIATION

Elliott Aviation of the Quad Cities, I
Quad City Airp
PO Box 1
Moline, IL 61266-01

Engine Log Entry

iscellaneous Action

Removed both magnetos and inspected internally. Right magneto checked good. Reinstalled right magneto. Found retard points in left magneto shorted. Replaced retard points with new P/N M3637. Reassembled left magneto with new can provided with points. Reinstalled left magneto. Timed magnetos to engine and reinstalled all previously removed items. Work performed per Slick Manual L-1363C. Ops check good.

I certify this Engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals. Pertinent details are on file at this agency under WO# 2512050.

gned _____

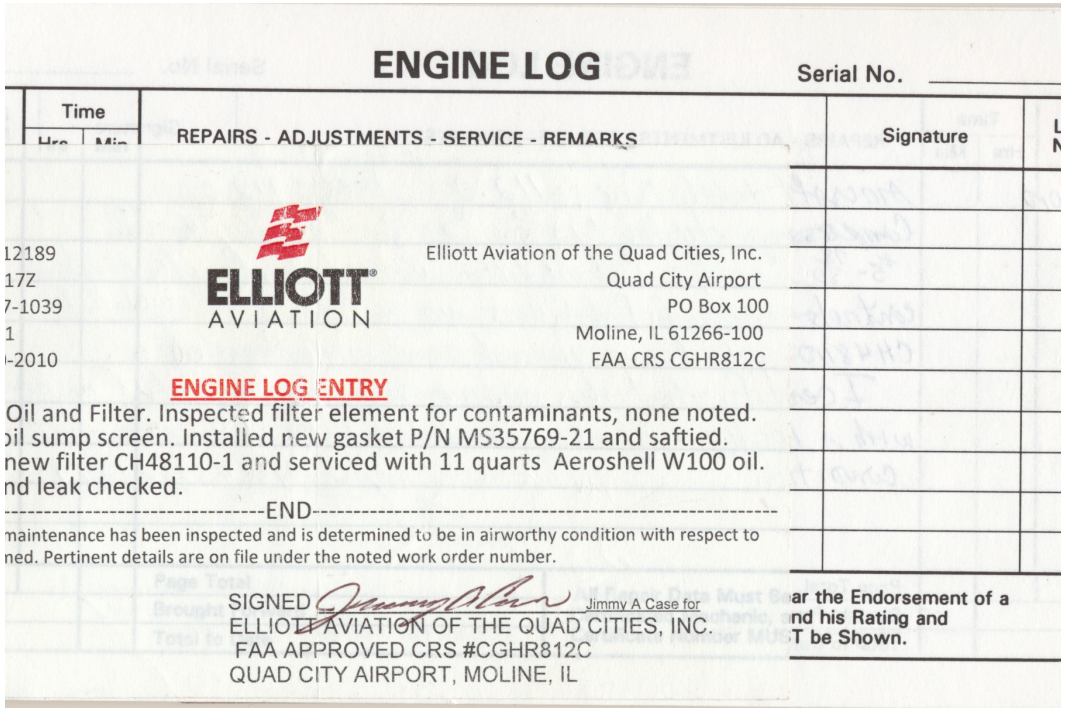
Kip E. Dopler

for Elliott Aviation of the Quad Cities, Inc. CGHR812C. EASA 145.5686

Total to Date

Certificate Number MUST be Shown.

Caption



ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature

12189
17Z
7-1039
1
-2010

ELLIOTT AVIATION

Elliott Aviation of the Quad Cities, Inc.
Quad City Airport
PO Box 100
Moline, IL 61266-100
FAA CRS CGHR812C

ENGINE LOG ENTRY

Oil and Filter. Inspected filter element for contaminants, none noted.
oil sump screen. Installed new gasket P/N MS35769-21 and saftied.
new filter CH48110-1 and serviced with 11 quarts Aeroshell W100 oil.
nd leak checked.

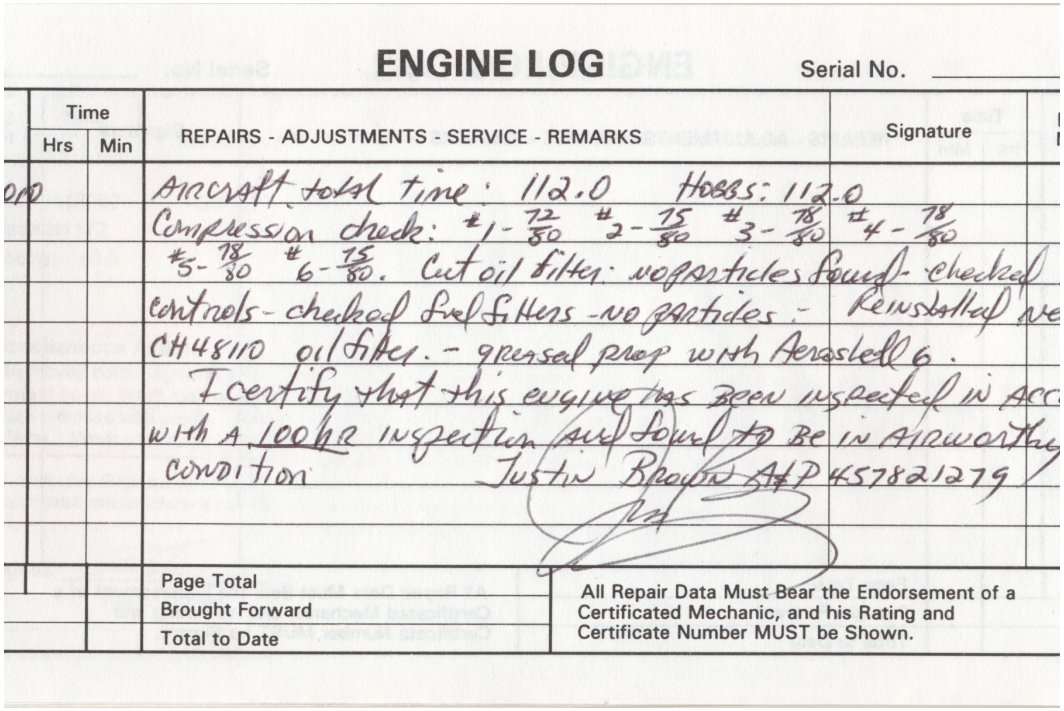
----------END----------

maintenance has been inspected and is determined to be in airworthy condition with respect to
ned. Pertinent details are on file under the noted work order number.

SIGNED Jimmy A Case for
ELLIOTT AVIATION OF THE QUAD CITIES, INC.
FAA APPROVED CRS #CGHR812C
QUAD CITY AIRPORT, MOLINE, IL

ar the Endorsement of a
nd his Rating and
T be Shown.

Caption

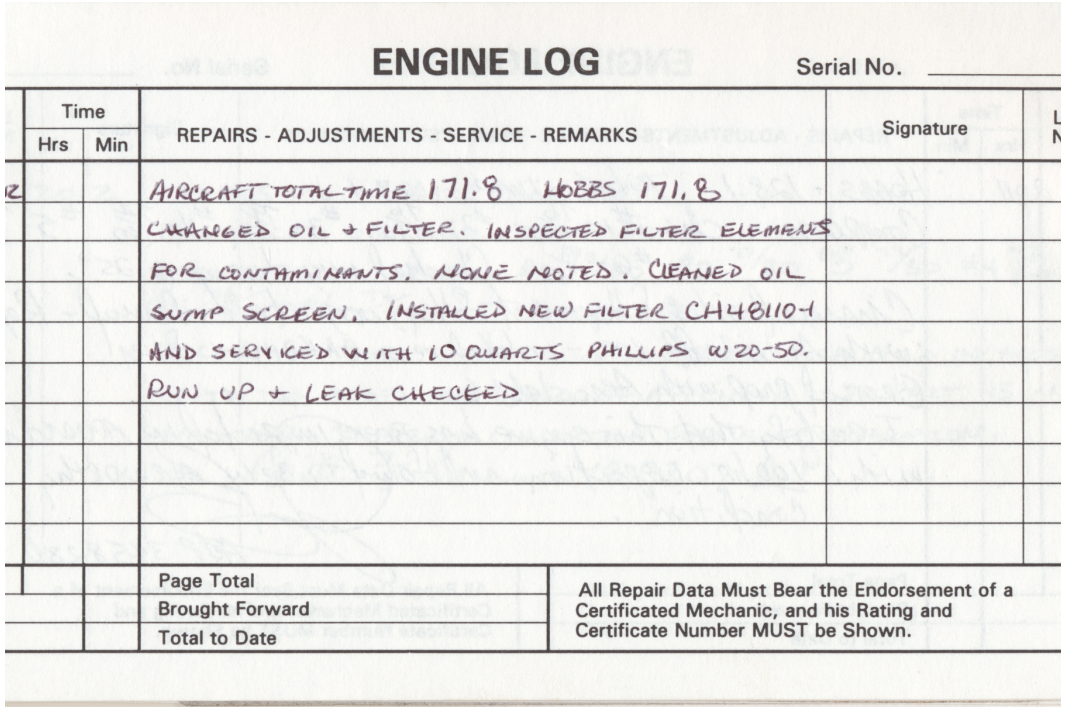


ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
0000		Aircraft total time: 112.0 Hobbs: 112.0	
		Compression check: #1 - 72/80 #2 - 75/80 #3 - 78/80 #4 - 78/80	
		#5 - 78/80 #6 - 75/80. Cut oil filter: no particles found - checked	
		controls - checked fuel filters - no particles - Reinstalled ne	
		CH48110 oil filter. - greased prop with Aeroshell 6.	
		I certify that this engine has been inspected in Acc	
		with a 100hr inspection and found to be in airworthy	
		condition Justin Brown A+P 4578212 79	
		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	

Caption

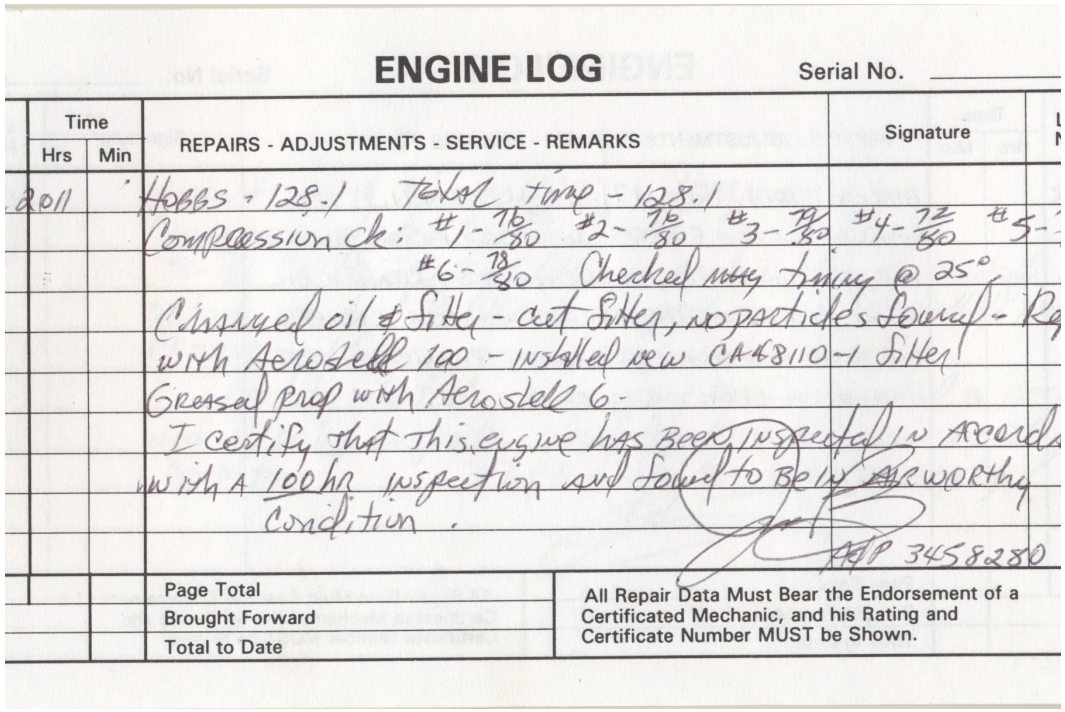


ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
		AIRCRAFT TOTAL TIME 171.8 HOBBS 171.8	
		CHANGED OIL + FILTER. INSPECTED FILTER ELEMENTS	
		FOR CONTAMINANTS. NONE NOTED. CLEANED OIL	
		SUMP SCREEN. INSTALLED NEW FILTER CH48110-1	
		AND SERVICED WITH 10 QUARTS PHILLIPS W 20-50.	
		RUN UP + LEAK CHECKED	
		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	

Caption



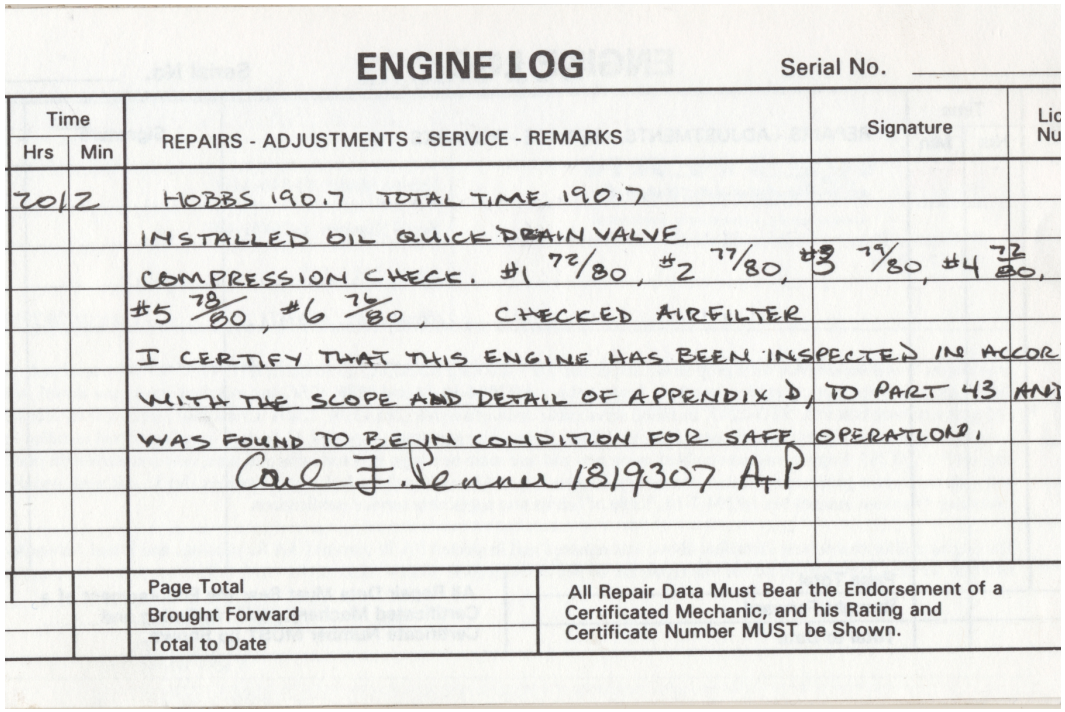
ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
2011		Hobbs - 128.1 Total time - 128.1	
		Compression ck: #1 - 76/80 #2 - 76/80 #3 - 79/80 #4 - 72/80 #5 -	
		#6 - 78/80 Checked mag timing @ 25°	
		Changed oil & filter - cut filter, no particles found - Re	
		with Aeroshell 100 - installed new CA48110-1 filter	
		Greased prop with Aeroshell 6 -	
		I certify that this engine has been inspected in accord	
		with a 100 hr inspection and found to be in airworthy	
		condition.	
			AP 3458280

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	

Caption



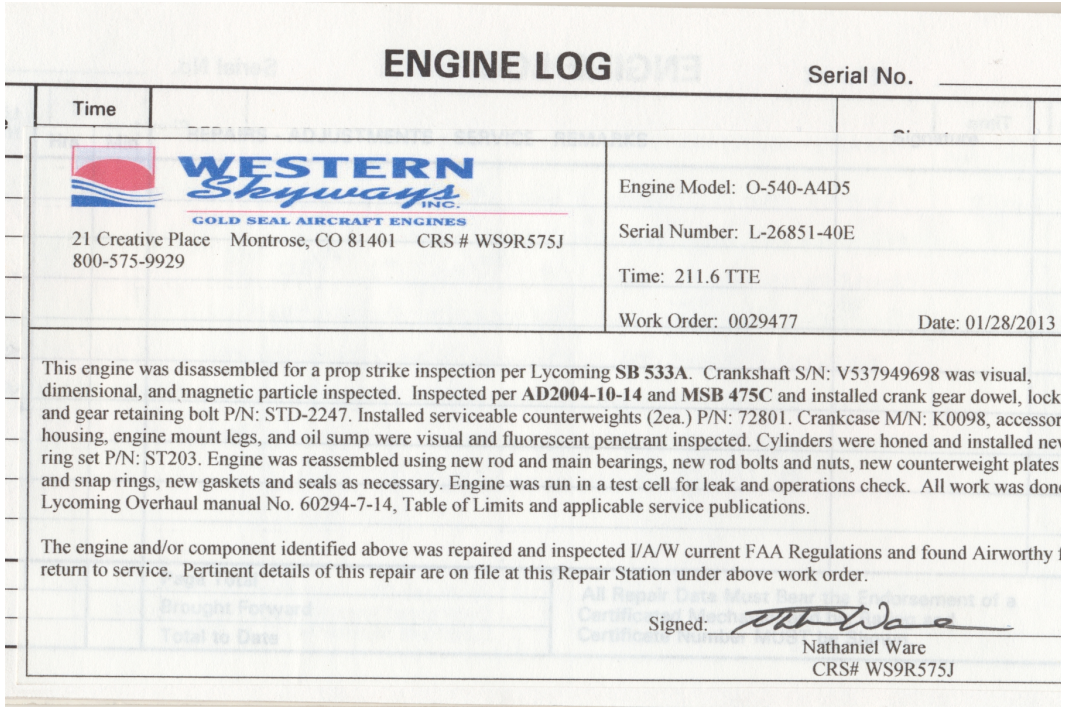
ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lic Nu
20	2	HOBBS 190.7 TOTAL TIME 190.7		
		INSTALLED OIL QUICK DRAIN VALVE		
		COMPRESSION CHECK. #1 7/80, #2 7/80, #3 7/80, #4 7/80,		
		#5 7/80, #6 7/80, CHECKED AIRFILTER		
		I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCOR		
		WITH THE SCOPE AND DETAIL OF APPENDIX D, TO PART 43 AND		
		WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION.		
		Carl F. Penner 1819307 A+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	

Caption



ENGINE LOG

Serial No. _____

Time

WESTERN Skyways INC.
GOLD SEAL AIRCRAFT ENGINES
21 Creative Place Montrose, CO 81401 CRS # WS9R575J
800-575-9929

Engine Model: O-540-A4D5

Serial Number: L-26851-40E

Time: 211.6 TTE

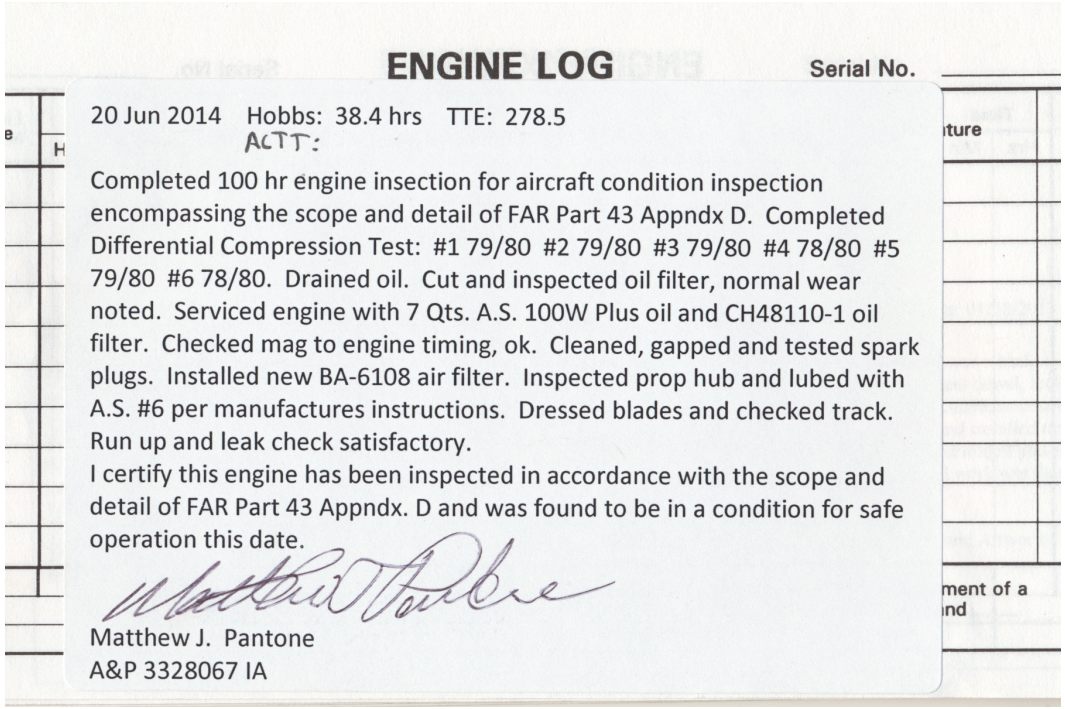
Work Order: 0029477 Date: 01/28/2013

This engine was disassembled for a prop strike inspection per Lycoming **SB 533A**. Crankshaft S/N: V537949698 was visual, dimensional, and magnetic particle inspected. Inspected per **AD2004-10-14** and **MSB 475C** and installed crank gear dowel, lock and gear retaining bolt P/N: STD-2247. Installed serviceable counterweights (2ea.) P/N: 72801. Crankcase M/N: K0098, accessor housing, engine mount legs, and oil sump were visual and fluorescent penetrant inspected. Cylinders were honed and installed ne ring set P/N: ST203. Engine was reassembled using new rod and main bearings, new rod bolts and nuts, new counterweight plates and snap rings, new gaskets and seals as necessary. Engine was run in a test cell for leak and operations check. All work was don Lycoming Overhaul manual No. 60294-7-14, Table of Limits and applicable service publications.

The engine and/or component identified above was repaired and inspected I/A/W current FAA Regulations and found Airworthy return to service. Pertinent details of this repair are on file at this Repair Station under above work order.

Signed: _____
Nathaniel Ware
CRS# WS9R575J

Caption



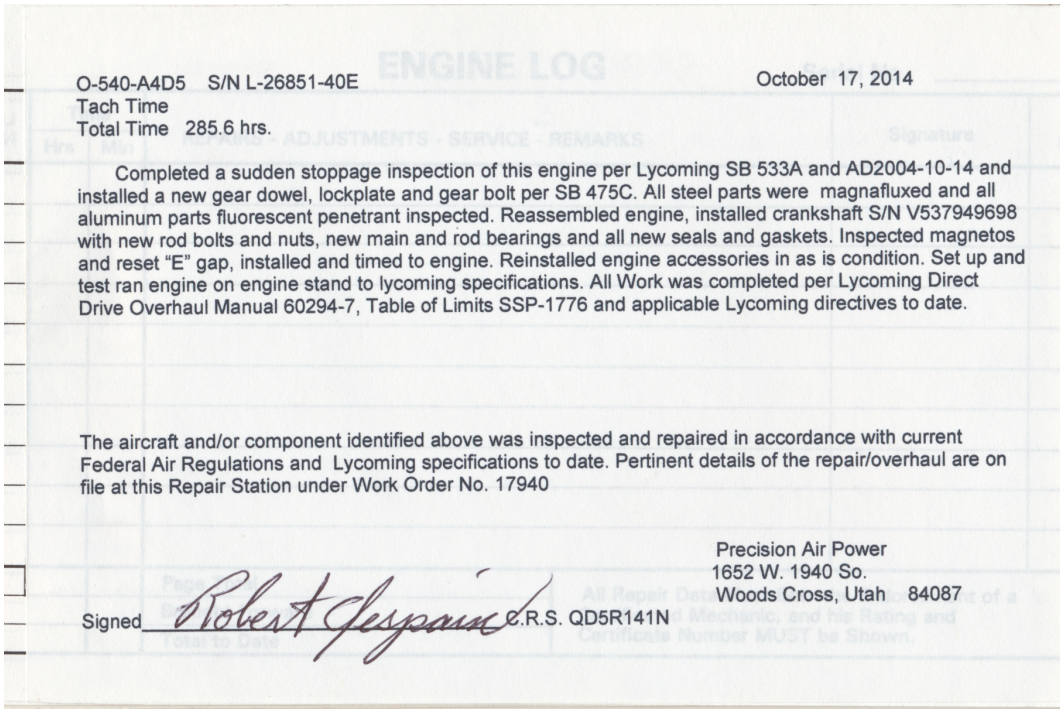
ENGINE LOG Serial No. _____

20 Jun 2014 Hobbs: 38.4 hrs TTE: 278.5
ACTT:

Completed 100 hr engine insection for aircraft condition inspection encompassing the scope and detail of FAR Part 43 Appndx D. Completed Differential Compression Test: #1 79/80 #2 79/80 #3 79/80 #4 78/80 #5 79/80 #6 78/80. Drained oil. Cut and inspected oil filter, normal wear noted. Serviced engine with 7 Qts. A.S. 100W Plus oil and CH48110-1 oil filter. Checked mag to engine timing, ok. Cleaned, gapped and tested spark plugs. Installed new BA-6108 air filter. Inspected prop hub and lubed with A.S. #6 per manufactures instructions. Dressed blades and checked track. Run up and leak check satisfactory.
I certify this engine has been inspected in accordance with the scope and detail of FAR Part 43 Appndx. D and was found to be in a condition for safe operation this date.

Matthew J. Pantone
A&P 3328067 IA

Caption



O-540-A4D5 S/N L-26851-40E October 17, 2014
Tach Time
Total Time 285.6 hrs.

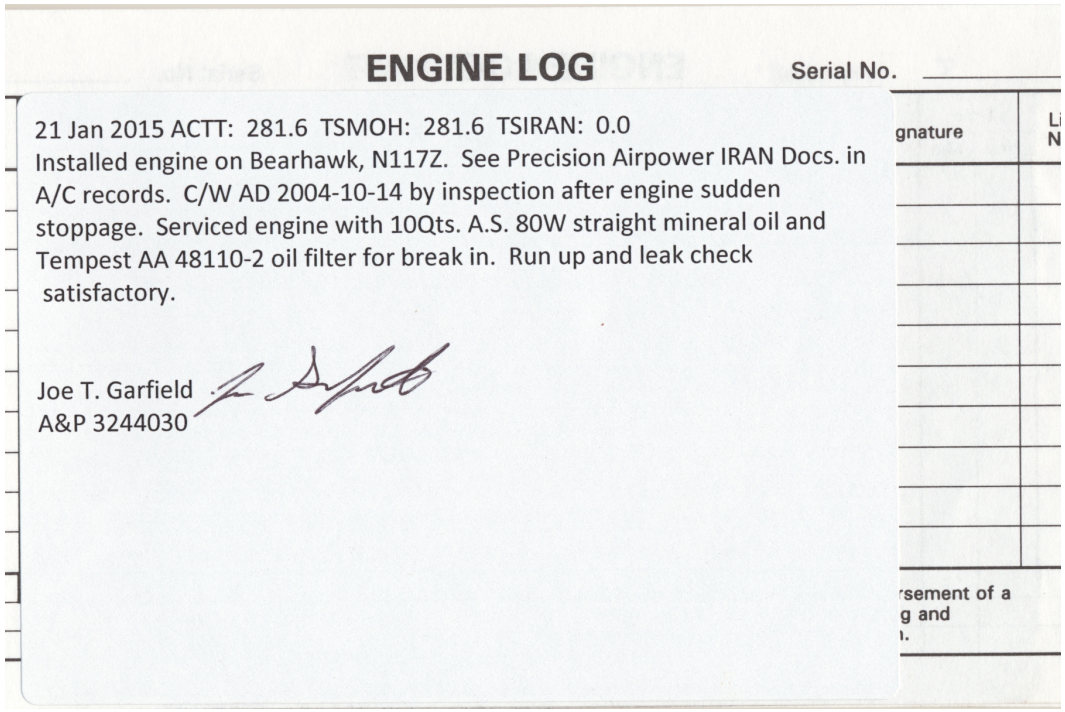
Completed a sudden stoppage inspection of this engine per Lycoming SB 533A and AD2004-10-14 and installed a new gear dowel, lockplate and gear bolt per SB 475C. All steel parts were magnafluxed and all aluminum parts fluorescent penetrant inspected. Reassembled engine, installed crankshaft S/N V537949698 with new rod bolts and nuts, new main and rod bearings and all new seals and gaskets. Inspected magnetos and reset "E" gap, installed and timed to engine. Reinstalled engine accessories in as is condition. Set up and test ran engine on engine stand to lycoming specifications. All Work was completed per Lycoming Direct Drive Overhaul Manual 60294-7, Table of Limits SSP-1776 and applicable Lycoming directives to date.

The aircraft and/or component identified above was inspected and repaired in accordance with current Federal Air Regulations and Lycoming specifications to date. Pertinent details of the repair/overhaul are on file at this Repair Station under Work Order No. 17940

Precision Air Power
1652 W. 1940 So.
Woods Cross, Utah 84087

Signed Robert Jespersen C.R.S. QD5R141N

Caption



ENGINE LOG Serial No. _____

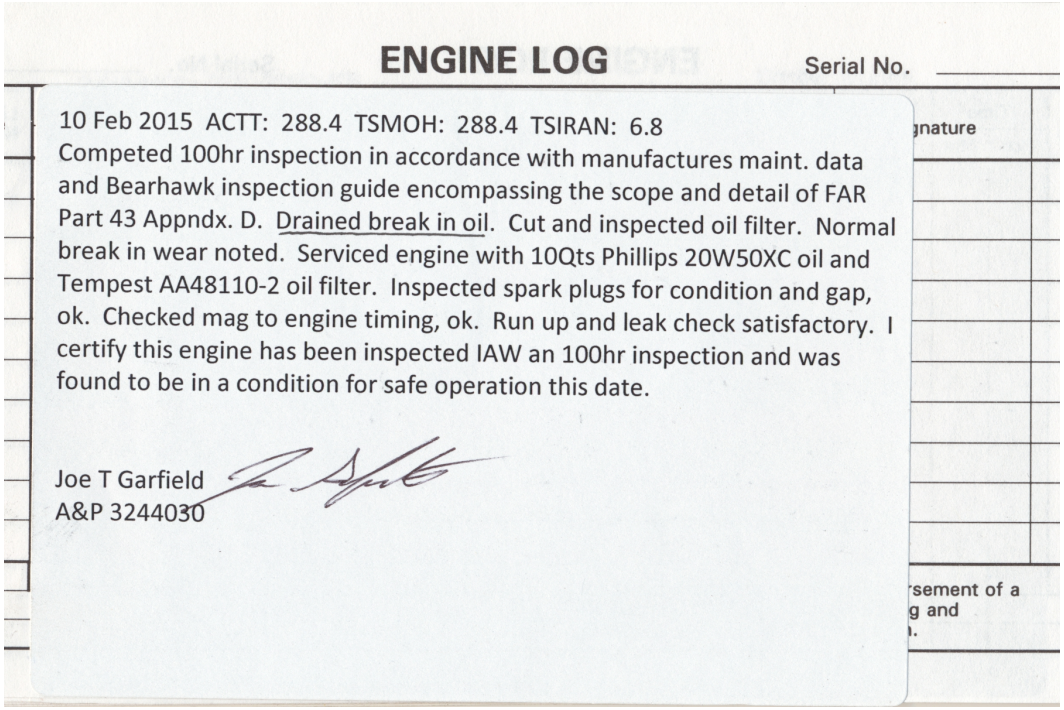
21 Jan 2015 ACTT: 281.6 TSMOH: 281.6 TSIRAN: 0.0
Installed engine on Bearhawk, N117Z. See Precision Airpower IRAN Docs. in A/C records. C/W AD 2004-10-14 by inspection after engine sudden stoppage. Serviced engine with 10Qts. A.S. 80W straight mineral oil and Tempest AA 48110-2 oil filter for break in. Run up and leak check satisfactory.

Joe T. Garfield
A&P 3244030

gnature | L N

rsement of a
g and
.

Caption



ENGINE LOG Serial No. _____

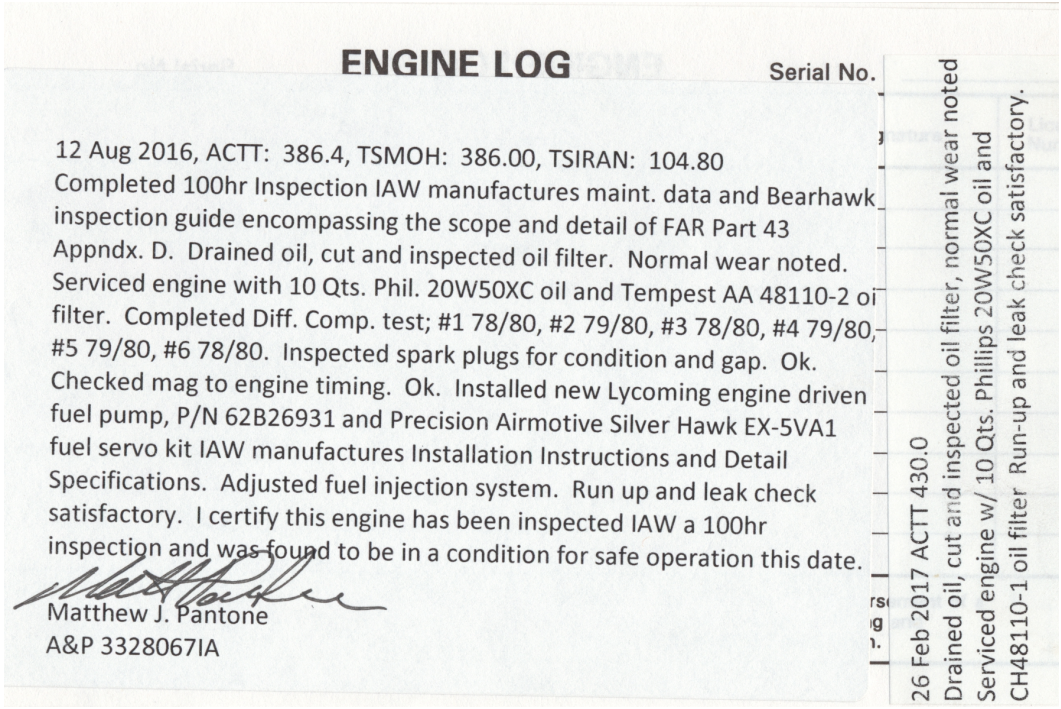
10 Feb 2015 ACTT: 288.4 TSMOH: 288.4 TSIRAN: 6.8
Competed 100hr inspection in accordance with manufactures maint. data and Bearhawk inspection guide encompassing the scope and detail of FAR Part 43 Appndx. D. Drained break in oil. Cut and inspected oil filter. Normal break in wear noted. Serviced engine with 10Qts Phillips 20W50XC oil and Tempest AA48110-2 oil filter. Inspected spark plugs for condition and gap, ok. Checked mag to engine timing, ok. Run up and leak check satisfactory. I certify this engine has been inspected IAW an 100hr inspection and was found to be in a condition for safe operation this date.

Joe T Garfield
A&P 3244030

gnature

rsement of a
g and
).

Caption



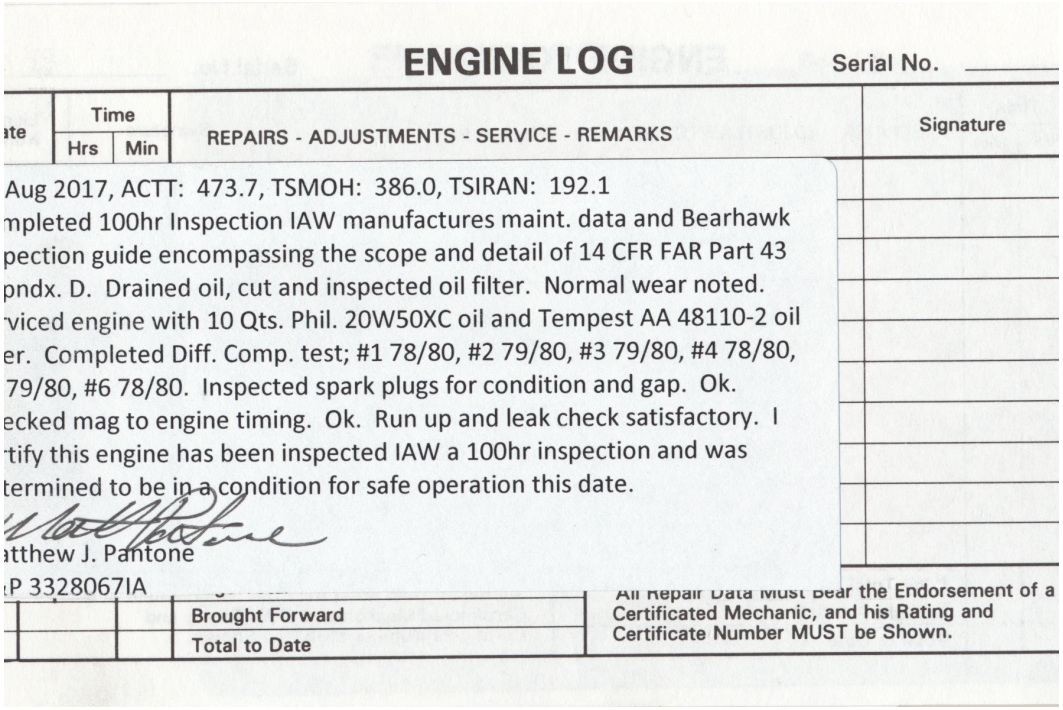
ENGINE LOG Serial No.

12 Aug 2016, ACTT: 386.4, TSMOH: 386.00, TSIRAN: 104.80
Completed 100hr Inspection IAW manufactures maint. data and Bearhawk inspection guide encompassing the scope and detail of FAR Part 43 Appndx. D. Drained oil, cut and inspected oil filter. Normal wear noted. Serviced engine with 10 Qts. Phil. 20W50XC oil and Tempest AA 48110-2 oi filter. Completed Diff. Comp. test; #1 78/80, #2 79/80, #3 78/80, #4 79/80, #5 79/80, #6 78/80. Inspected spark plugs for condition and gap. Ok. Checked mag to engine timing. Ok. Installed new Lycoming engine driven fuel pump, P/N 62B26931 and Precision Airmotive Silver Hawk EX-5VA1 fuel servo kit IAW manufactures Installation Instructions and Detail Specifications. Adjusted fuel injection system. Run up and leak check satisfactory. I certify this engine has been inspected IAW a 100hr inspection and was found to be in a condition for safe operation this date.

Matthew J. Pantone
A&P 3328067IA

26 Feb 2017 ACTT 430.0
Drained oil, cut and inspected oil filter, normal wear noted
Serviced engine w/ 10 Qts. Phillips 20W50XC oil and
CH48110-1 oil filter Run-up and leak check satisfactory.

Caption

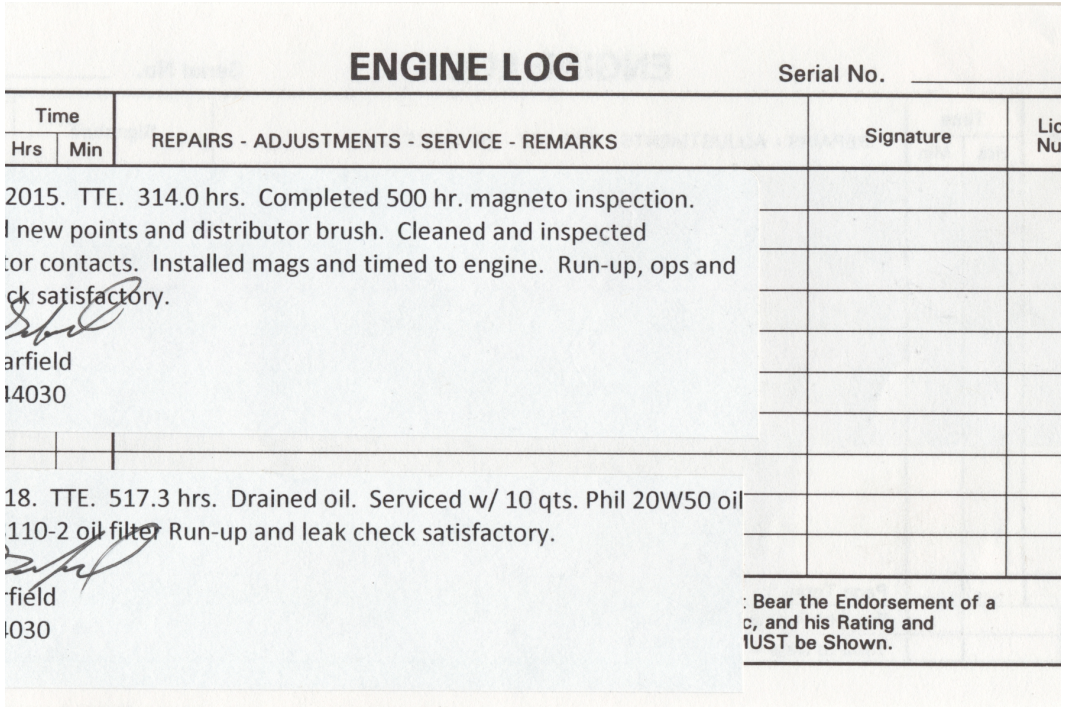


ENGINE LOG

Serial No. _____

ate	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
			Aug 2017, ACTT: 473.7, TSMOH: 386.0, TSIRAN: 192.1 mpleted 100hr Inspection IAW manufactures maint. data and Bearhawk pection guide encompassing the scope and detail of 14 CFR FAR Part 43 pndx. D. Drained oil, cut and inspected oil filter. Normal wear noted. rviced engine with 10 Qts. Phil. 20W50XC oil and Tempest AA 48110-2 oil er. Completed Diff. Comp. test; #1 78/80, #2 79/80, #3 79/80, #4 78/80, 79/80, #6 78/80. Inspected spark plugs for condition and gap. Ok. ecked mag to engine timing. Ok. Run up and leak check satisfactory. I tify this engine has been inspected IAW a 100hr inspection and was termined to be in a condition for safe operation this date.	
			atthew J. Pantone P 3328067IA	
			Brought Forward	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Total to Date	

Caption



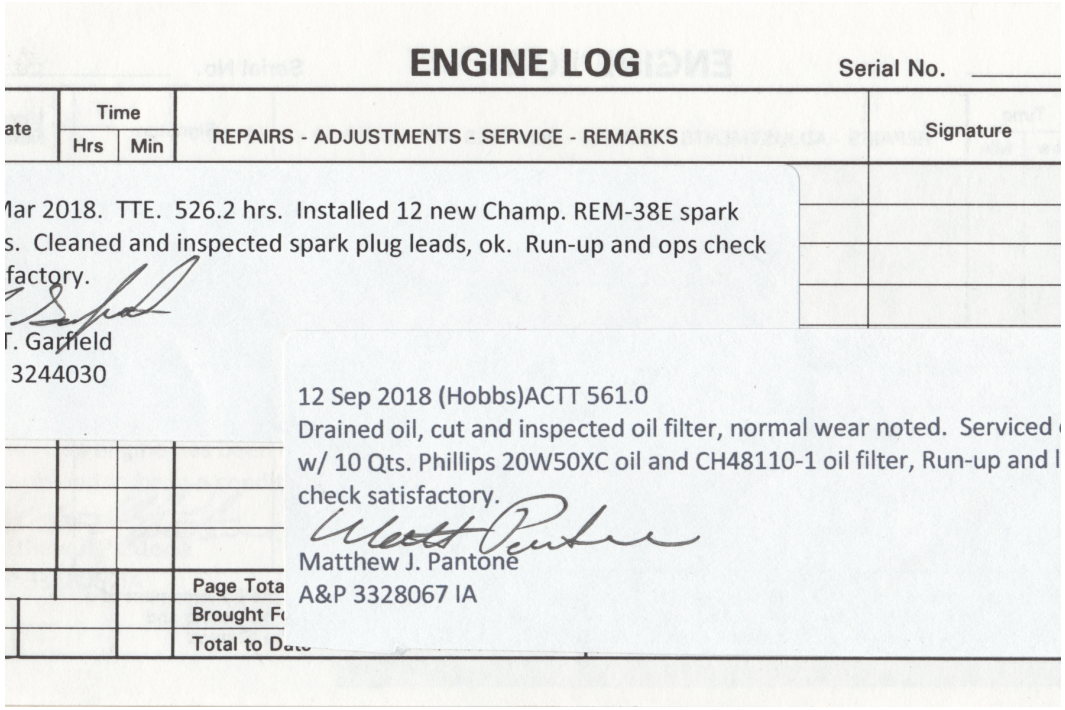
ENGINE LOG

Serial No. _____

Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lic Nu
		2015. TTE. 314.0 hrs. Completed 500 hr. magneto inspection. l new points and distributor brush. Cleaned and inspected tor contacts. Installed mags and timed to engine. Run-up, ops and ck satisfactory. arfield 14030		
		18. TTE. 517.3 hrs. Drained oil. Serviced w/ 10 qts. Phil 20W50 oil 110-2 oil filter Run-up and leak check satisfactory. field 4030		

: Bear the Endorsement of a c, and his Rating and IUST be Shown.

Caption

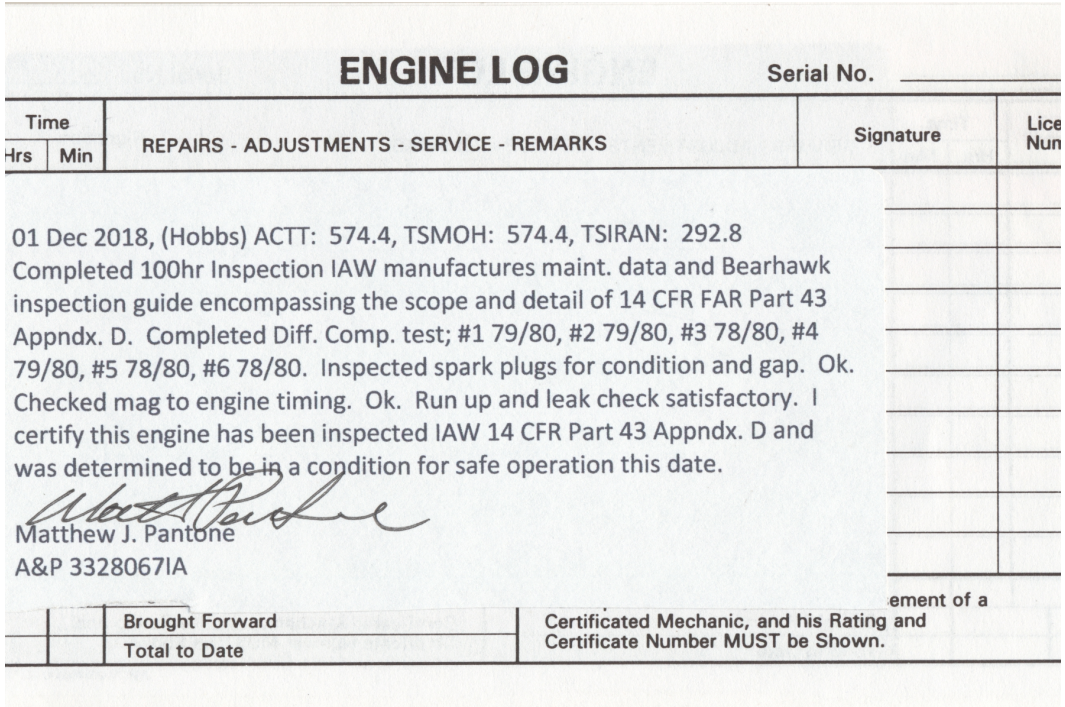


ENGINE LOG

Serial No. _____

ate	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
			lar 2018. TTE. 526.2 hrs. Installed 12 new Champ. REM-38E spark s. Cleaned and inspected spark plug leads, ok. Run-up and ops check factory.	
			T. Garfield 3244030	
			12 Sep 2018 (Hobbs)ACTT 561.0 Drained oil, cut and inspected oil filter, normal wear noted. Serviced w/ 10 Qts. Phillips 20W50XC oil and CH48110-1 oil filter, Run-up and l check satisfactory. Matthew J. Pantone A&P 3328067 IA	
			Page Tota	
			Brought F	
			Total to Da	

Caption



ENGINE LOG

Serial No. _____

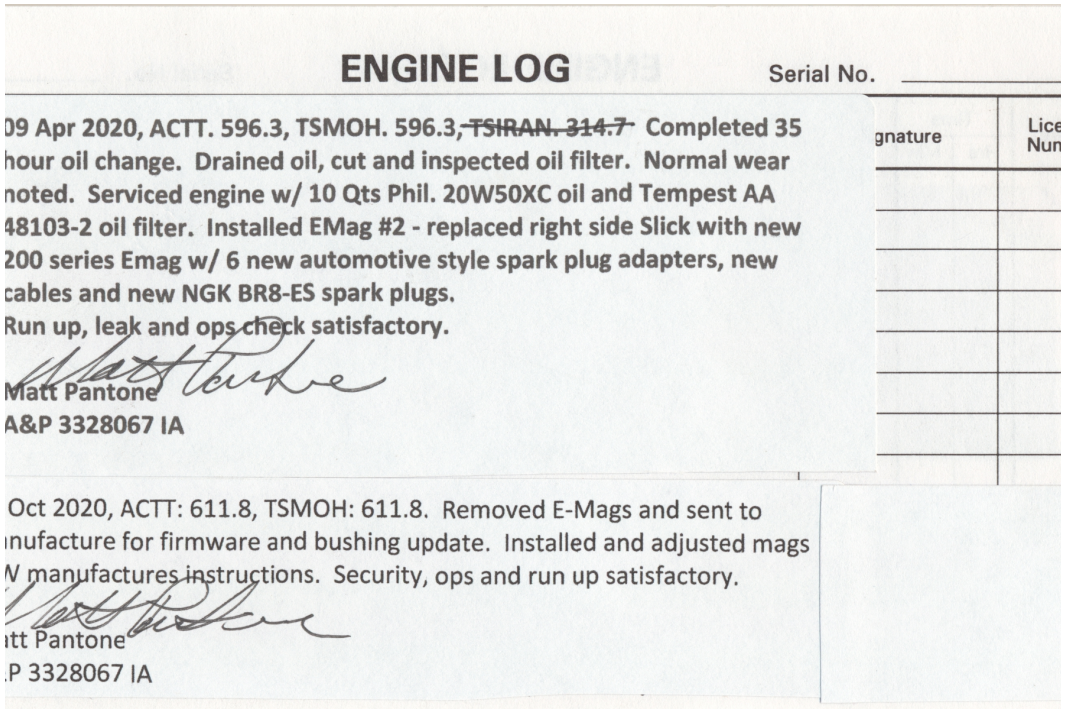
Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lice Num
		01 Dec 2018, (Hobbs) ACTT: 574.4, TSMOH: 574.4, TSIRAN: 292.8 Completed 100hr Inspection IAW manufactures maint. data and Bearhawk inspection guide encompassing the scope and detail of 14 CFR FAR Part 43 Appndx. D. Completed Diff. Comp. test; #1 79/80, #2 79/80, #3 78/80, #4 79/80, #5 78/80, #6 78/80. Inspected spark plugs for condition and gap. Ok. Checked mag to engine timing. Ok. Run up and leak check satisfactory. I certify this engine has been inspected IAW 14 CFR Part 43 Appndx. D and was determined to be in a condition for safe operation this date. Matthew J. Pantone A&P 3328067IA		
		Brought Forward	ement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
		Total to Date		

Caption

01 Feb 2020, ACTT. 585.2, TSMOH. 585.2, TSIRAN. 303.6. Performed 100 hr. Inspection IAW manufactures maintenance data and Bearhawk Inspection Guide encompassing the scope and detail of 14CFR Part 43 Appendix D. Completed differential compression test: #1 77/80, #2 78/80. #3 78/80, #4 78/80, #5 78/80. #6 78/80. Installed E-MAG P200-6XL IAW E-MAG Lycoming Manual Rev. .39. Checked mag timing for E-MAG and original Slick, Ok. Installed 6 new automotive style spark plug adapters w/ new cables and new NGK BR8-ES spark plugs. Cleaned, inspected and checked gap on 6 original REM-38E aircraft style spark plugs. Run up, leak and ops check satisfactory. I certify this Engine has been inspected for condition IAW a 100 hr. inspection and has been determined to be in a condition for safe operation this date.

Matt Pantone
A&P 3328067 IA

Caption

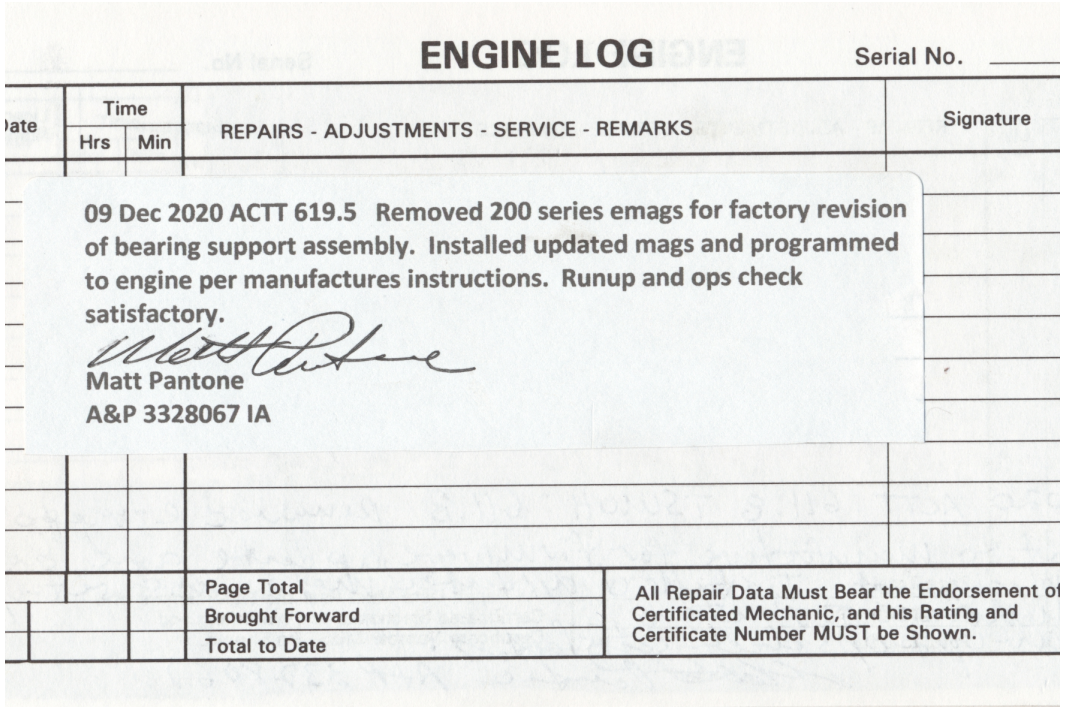


ENGINE LOG

Serial No. _____

	gnature	Lice Nun
09 Apr 2020, ACTT. 596.3, TSMOH. 596.3, ~~TSIRAN. 314.7~~ Completed 35 hour oil change. Drained oil, cut and inspected oil filter. Normal wear noted. Serviced engine w/ 10 Qts Phil. 20W50XC oil and Tempest AA 48103-2 oil filter. Installed EMag #2 - replaced right side Slick with new 200 series Emag w/ 6 new automotive style spark plug adapters, new cables and new NGK BR8-ES spark plugs. Run up, leak and ops check satisfactory. Matt Pantone A&P 3328067 IA		
Oct 2020, ACTT: 611.8, TSMOH: 611.8. Removed E-Mags and sent to nufacture for firmware and bushing update. Installed and adjusted mags V manufactures instructions. Security, ops and run up satisfactory. tt Pantone P 3328067 IA		

Caption



ENGINE LOG

Serial No. _____

Date	Time Hrs	Time Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature
			09 Dec 2020 ACTT 619.5 Removed 200 series emags for factory revision of bearing support assembly. Installed updated mags and programmed to engine per manufactures instructions. Runup and ops check satisfactory. Matt Pantone A&P 3328067 IA	
			Page Total	All Repair Data Must Bear the Endorsement of Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

Caption