AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG



ENGINE DATA

1.	Make	LYCOMING	
2.	Model	IO-360-C1C	
3.	Specification		
4.	Manufacturer's Serial Number	L-11098-51A	
5.	Date of Manufacture		
6.	Aircraft Inspection Cycle		





DATE	TIME RU	IN	TIME SINCE OVERI	HAUL	C	CLES
1 1	HOURS	_	aunc		S u b Total	TOTAL
BROUGHT _						

DESCRIPTION OF WORK PERFORMED, (INSPECTION, REPAIRS, REPLACEMENT)

January 14, 2015

EXODUS AIR SERVICE

4555 West Ave "G" Ste#6 (WJF) Engine M/N 10-360-C1C Lancaster, California 93536 S/N L-11098-51A Phone (661) 942-6489 Eng. T.T. 5,519.34

This engine was disassembled, cleaned, inspected, repair in service after oil contamination, and re-assembled after the following work: tachometer shaft overhauled by Aircraft Specialties Services, Inc. Camshaft overhauled by Nickson's Machine Shop Inc. Magnetos inspected by Exodus, Crankcase repaired by Divco. Rocker arm overhauled by Exodus, all engine parts were inspected by Active Magnetic, Sun Valley, CA. Cylinder's repair in service by Exodus. Accessories not overhauled at this time. The following parts were replaced at engine assembly: SL13792 Crankshaft seal, 18N26106 Connecting rod bearing's, 18D26096 Main bearings, 18A26093 Front main bearing, LW-12186 Nut connecting rod, LW-31H0.88 Idler shaft bolt, STD-2168 Nut idler shaft, 73772 Oil nozzle, 78528 Oil pump housing. 75441-1 Gasket set, 72877 Body lifter, 05k19423s Impeller kit, 75060 Connecting rod bolt, STD-2246 Crankshaft bolt, 05K22035 Ring set, 76121 Tachometer shaft, 74389 Rocker arm bushings, ASC10207 Piston. Engine identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency and is approved for return to service. All ADs checked and in compliance through this date, see profile (report) provided with records package. Pertinent details of the repair are on file at this repair station under Work Order No.895

Juan Paiz Certificate # 3593017

N316EF February 23, 2015 Engine Log

Tachometer Reading: 2,914.34 Hobbs 0110.0 AFTT& ETT: 5,519.34

Time Snce Major Overhaul: 0.00

Make: Lycoming Model: IO- 360-C1C S/N: L-11098-51A.

Annual inspection in accordance with scope and detail of appendix D of part 43 to code of Federal regulations chapter 14.

- Engine removed from aircraft and sublet to Exodus Air Service for overhaul due to metal chips found in oil filter & oil pump inlet screen. Engine reinstalled after overhaul.
- Engine serviced with Brake In oil.
- Lycoming recurring AD 2004-10-14C Due at any propeller strike or at engine overhaul.
- Lycoming recurring AD 2011-26-04. Complied with at this time by inspection of fuel injector lines and clamping. Next due 100 hrs or if any maintenance that effects fuel injector lines.
- Airworthiness directives checked and in compliance through 2015-04.
- Ground ran for operation check and leak check. All checked satisfactory.

 All work done in accordance with the appropriate chapter, page and section with Piper Maintenance Manual Part number

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. Bruce Allan Bell A&P 3444107I.A.

		NAME/ SIGNATURE	AMEOT AMO/ACA
FAA - PMA			
This tag certifies that Sky-Tec Model No			
by Sky-Tec under the authority of FAA-PMA No. PQ0852SW Supplement No in accordance with Sky-Tec's FAA-Approved Quality System (14CFR Part 21, Subpart K). This article has been determined to be airworthy. For installation eligibility see			
Starter Installed on N 316EP by Baua Ollu Reus (Mechanic)			
Form CC1108-1 4 22 2015			
Mate: New 0000 0 P- 1: 5 1			
Note: New 0000.0 Reading Tachometer Installed 4/15/2015 at Airframe Total Time: 5547.55			
New Tachometer range markings painted on face from			
specifications found in Pilot's Operating Hand Book.			
Propeller and propeller governor adjusted and aircraft tes	t :-		
flown to insure engine RPM within normal range. This Aircraft is returned to service 4/16/2015 at airfram Total time: 5547.55.	é :		
Bruce Allan Bell A&P 3444107 9.A. Bruce Ollan Bell			
DLD TACH TIME ; 2942.55			_
			_

Sub TO	•	CLES	CY			TIME SINCE OVERH	IN	TIME RU	DATE
HOURS min HOURS min Total	ΓAL	тот	S u b Total	I	T		min	HOURS	1 1

DESCRIPTION OF WORK PERFORMED (INSPECTION, REPAIRS, REPLACEMENT)



Engine Log: N316EF July 18, 2015

Tachometer: 0070.0 Hobbs Meter: 0230.8 Airframe & Engine Total Time: 5,617.55 Engine Time Since Major Overhaul: 98.21

Lycoming: IO-360-C1C. Serial Number: L-11098-51A.

Annual inspection in accordance with scope and detail of FAR 43 Appendix D.

- Compression test performed hot. #1. 74/80, #2. 70/80, #3. 75/80 & #4. 72/80. PSI.
- Drained engine oil, removed oil filter and cut open for inspection. Removed oil pump inlet screen and inspected. Cleaned screen, reinstalled with new copper crush gasket & safety wired cap.

New oil filter P/N: CH48110-2 installed & safety wired. Nothing abnormal noted.

Refilled engine sump with 8 quarts of new Aeroshell W100 Plus oil.

- All spark plugs removed, cleaned, gapped, spark tested and inspected. Spark plugs reinstalled with new M674 copper gaskets.
- Magneto timing checked and found at 25° BTDC specification.
- Removed fuel injectors and cleaned. Reinstalled. Complied with Lycoming recurring AD. Per AD 2011-26-04(h) MSB
 No.342F. By inspection. Next due at any service that effects the fuel injector lines
- AD 2004-10-14C. Due at any propeller strike.
- AD 2015-02-07. Not applicable due to engine model. Not Aerobatic.
- All Airworthiness directives checked and in compliance through 2015-15.
- Work accomplished per Overhaul Manual Direct Drive Engine Sixth Printing December 1974 Part No. 60294-7
- Ground ran for operation check and leak check. All checked satisfactory per:

Piper Aircraft Corporation Pilot's Operating Handbook for PA-28R-200.

I certify that this **engine** has been inspected in accordance with annual inspection and was determined to be in airworthy condition. Bruce Allan Bell A&P 3444107 9.A. Bruce Willow Bell

TOTALS SINCE NEW

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CARRY FORWARD to Top of Next Page

NAME/ SIGNATURE AMEOT AMO/ACA



16700 Roscoe Blvd. Van Nuys CA 91406

N316EF Engine Log: November 20, 2015

Tachometer: 170.9 Airframe Total Time: 5,718.45

Lycoming Engine Model: 10-360-C1C. Serial Number: L-11098-51A.

Engine Total Time: 5, 718.45 Time Since Major Overhaul: 199.11

Annual hour inspection in accordance with scope and detail of appendix D of part 43 to code of Federal regulations chapter 14.

- All spark plugs removed, cleaned, gapped, tested, inspected and reinstalled with new M674 gasket. Found cracked plug in cylinder #2 and then replaced with new spark plug of same type and kind.
- Engine oil drained, oil filter removed and cut open for inspection.
 No abnormalities noted. Oil pump inlet screen inspected and cleaned.
 Reinstalled screen. New oil filter installed and engine oil sump refilled with 7 guarts of Aeroshell W100 plus.
- Compression Test #1 69/80, #2 70/80, #3 69/80, #4 72/80.
- Checked timing found to be set at 25° BTDC specification.
- Airworthiness directives checked and in compliance through 2015-23.
- Ground ran for operation check and leak check. All checked satisfactory.

I certify that this **engine** has been inspected in accordance with an **Annual** inspection and was determined to be in airworthy condition. Bruce Allan Bell A&P 3444107 I.A.

Bruce allan Bell 11/20/2015

MOUNT

Fail

Fail

0

Fail

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MOUNT

009-R1

DATE	TIME	RUN	TIM SINCE OVE		C	YCLES	DESCRIPTION OF WA
1 1	HOURS	min	HOURS	min	S u b Total	TOTAL	DESCRIPTION OF WORK PERFOR (INSPECTION, REPAIRS, REPLACEMENT)
ROUGHT _							
				_			
							Encore
						F	LIGHT ACADEMY
							oscoe Blvd. Van Nuys CA 91406
			Aircraft	Reg	istrat	ion Number	:N316EF
			Da	ate: E	ebrua	ary 18, 20	16. Time: 5, 916, 95
	Tach	ome	ter: 269	1. 4	Air	rame Total	Time: 5, 816.95 Number: L-11098-51A.
	ming t	engir	r Mode	202	95 11	me Since M	gior Overhault 207 61
Γ.,	gine To	otal	Time: 5.			HIE SHICE IVE	ajor Overnaur. 237.01
Γ.,	gine To nnual hou	otal ur insp	time: 5, section in a	ccord	ance WI	th scope and det	ajor Overhaul: 297.61 ail of appendix D of part 43 to code
En A	nnual hou	ur insp	pection in a	of F	ance wil ederal re	egulations chapt	er 14.
En Al	nnual hou l spark install	urinsp plu ed w	gs removith new	of F ed, c M674	ance Wil ederal re cleaned gasket	egulations chapt d, gapped, te Found crac plug of sam	er I4. ested, inspected and eked plug in cylinder #2 de type and kind.
En Al re and Enc.	nnual hou l spark install d then gine oi	e plue ed w repla	gs removith new aced with ined, o	of F ed, of M674 h new il fi	ance Will ederal re eleaned gasket gasket spark lter r	th scope and detegulations chapt d, gapped, te found crac plug of sam emoved and c	er 14. ested, inspected and eked plug in cylinder #2 are type and kind. ut open for inspection. n inspected and cleaned.
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En Al re an No Re:	l spark install d then gine oi abnorm install filled un pression	ed w. replaced w. replaced so with on Te	gs removith new acced with new acced with nined, outer notes recen. No 7 quarts st #1 72 found t	of F ed, of M674 h new iil fi ii. Oi ew oi s of //80, o be	ance will ederal re cleaned gasket spark lter r l pump l filt Aeroshe #2 72/ set at	th scope and detegulations chapt d, gapped, te found crace plug of same emoved and c inlet scree er installed ell W100 plus 80, #3 73/80 25° BTDC sp and in compl	all of appendix D of part 43 to code er 14. ested, inspected and sked plug in cylinder #2 are type and kind. ut open for inspection. In inspected and cleaned. and engine oil sump s. 20, #4 71/80. Decification. iance through 2016-04.
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En Al re and No Rei Cone Che Air Grosatt All work do Maintenand	l spark install d then gine oi abnorm install filled un pressic ecked ti worthir bund rap isfacto ne in accorde	e pluded with on Tediming ness of for cordardal.	gs removith new acced with new acced with nined, on the streen. No 7 quarts found the directive operations with the second secon	of F ed, of M674 h new ill fii. Oilew oils of a choose choose choose choose app	ance will celeral re cleaned gasket spark lter r l pump l filt Geroshe #2 72/ set at lecked eck an	th scope and detegulations chapted, gapped, telling of same emoved and control in the screen er installed ell w100 plus (80, #3 73/80; 25° BTDC spand in complete chapter, page	er 14. ested, inspected and exed plug in cylinder #2 are type and kind. ut open for inspection. In inspected and cleaned. and engine oil sump s. D. #4 71/80. Decification. iance through 2016-04. All checked and section with Piper Arrow
En Al re and No Rei Cone Che Air Grosatt All work do Maintenand	l spark install d then gine oi abnorm install filled un pressic ecked ti worthir bund rap isfacto ne in accorde	e pluded with on Tediming ness of for cordardal.	gs removith new acced with new acced with nined, on the streen. No 7 quarts found the directive operations with the second secon	of F ed, of M674 h new ill fii. Oilew oils of a choose choose choose choose app	ance will celeral re cleaned gasket spark lter r l pump l filt Geroshe #2 72/ set at lecked eck an	th scope and detegulations chapted, gapped, telling of same emoved and control in the screen er installed ell w100 plus (80, #3 73/80; 25° BTDC spand in complete chapter, page	er 14. ested, inspected and sked plug in cylinder #2 se type and kind. ut open for inspection. n inspected and cleaned. and engine oil sump s. 0, #4 71/80. eccification. iance through 2016-04. All checked and section with Piper Arrow

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THIS PAGE TOTALS

PREVIOUS TOTALS

TOTALS SINCE NEW

NAME/ SIGNATURE AMEOT AMO/ACA

Aircraft Registration Number: N316EF

Date: July 11, 2016.

Tachometer: 323.8 Airframe Total Time: 5,871.35

Lycoming Engine Model: 10-360-C1C. Serial Number: L-11098-51A.

Engine Total Time: 5,863.35 Time Since Major Overhaul: 352.01

50 Hour Inspection per Encore 50 Hour check list.

Engine oil drained, oil filter removed. New oil filter P/N CH48110-2 installed and engine oil sump refilled with 8 quarts of Aeroshell W100 Plus

I certify that this **engine** has been inspected in accordance with an **50** inspection and was determined to be in airworthy condition. Bruce Allan Bell A&P 3444107 I.A.

Bruce allow Bell



16700 Roscoe Blvd. Van Nuys CA 91406

Aircraft Registration Number: N316EF

Date: October 1, 2016.

Tachometer: 366.8 Airframe Total Time: 5, 914.35

Lycoming Engine Model: 10-360-C1C. Serial Number: L-11098-51A.

Engine Total Time: 5, 906.35 Time Since Major Overhaul: 395.01

Annual hour inspection in accordance with scope and detail of appendix D of part 43 to code of Federal regulations chapter 14.

- All spark plugs removed, cleaned, gapped, tested, inspected and reinstalled with new M674 gasket.
- Engine oil drained, oil filter removed and cut open for inspection. No abnormalities noted. Oil pump inlet screen inspected and cleaned. Reinstalled screen. New oil filter installed and engine oil sump refilled with 7 quarts of Aeroshell W100 plus.
- Compression Test #1 78/80, #2 74/80, #3 76/80, #4 72/80.
- Checked timing found to be set at 25° BTDC specification.
- AD 2015-19-07 Complied with by inspection of fuel injection lines. Next due 110 hrs at 476.8 or at any service that affects fuel injector lines.
- No propeller strike to date. AD 2004-10-14C due at engine overhaul or any occurrence of a propeller sudden stoppage or strike.
- Airworthiness directives checked and in compliance through 2016-19.
- Ground ran for operation check and leak check. All checked satisfactory.

All work done in accordance with the appropriate chapter, page and section with Piper Arrow Maintenance Manual.

I certify that this **engine** has been inspected in accordance with an **Annual** inspection and was determined to be in airworthy condition. Bruce Allan Bell A&P 3444107 I.A.

Bruce Cellen Bell





N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service Michael Maisch A&P3352212 THIS PAGE TOTALS PREVIOUS TOTALS TOTALS	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refille 2. Removed all spark plugs, cleaned, tested and reinstall Aircraft approved for return to service	ed engine oil with 8 quarts of Aeroshell W100 plus. ———ed.
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3 Performed the following maintenance items in accordance 1 Drained oil, replaced oil filter P/N AA48110-2 and refilled	ed engine oil with 8 quarts of Aeroshell W100 plus
N316EF Engine Logbook Entry 10/20/2017 TACH: 510.3	with Piner Maintenance Manual
N316EF Engine Logbook Entry	
3/3/98/IA	
3/3/98/IA	
Anthony Ast	
lite het	
I certify that this Powerplant has been inspected in according Part 43 Appendix D, and is determined to be in an airworth	dance with an ANNUAL inspection per Title 14 CFR, by condition and is approved for return to service.
A&P3352212	
Michael Maisch	
Micha Maria	
I certify that this Powerplant has been inspected in according airworthy condition and is approved for return to service	dance with a 100HR inspection and is determined to be
9- Performed engine run up, all checks are good.	
8- C/W AD 2015-19-07 fuel line and clamp inspection in A	vy para (c)(ii) of the dire by conting brightes wish No.
repair station #XB2R286L WO #43960 for details of re	e by date of overhaul 1/24/2015.
5- Checked engine to magneto timing.	11810 S/N H-M102421. See Aero Accessories FAA
 Cleaned and checked oil purify lifet oil screen, stated, Performed engine compression check, #1 72/80 #2 75 	/80 #3 76/80 #4 76/80.
2- Removed all spark plugs, cleaned, tested and remotest	d screen and reinstalled with new crush gasket
Performed to the following maintenance items; Performed the following maintenance items;	ed engine oil with 8 quarts of Aeroshell W100 plus.
Performed Tourist Inspection in the service items	Service Manual and FAR Part 43 Appendix D.
Make: Lycoming Model: IO-360-C1C S/N: L-11090-3 Performed 100HR inspection in accordance with Lycoming	1 /
Engine TT: 6012.05 TSMOH: 0492.71 Make: Lycoming Model: IO-360-C1C S/N: L-11098-5 Performed 100HR inspection in accordance with Lycoming	
Date: 08/29/2017 TACH: 0464.5 Engine TT: 6012.05 TSMOH: 0492.71 Make: Lycoming Model: IO-360-C1C S/N: L-11098-5 Performed 100HR inspection in accordance with Lycoming	
Engine TT: 6012.05 TSMOH: 0492.71 Make: Lycoming Model: IO-360-C1C S/N: L-11098-5 Performed 100HR inspection in accordance with Lycoming	



MAKE: LYCOMING

S/N: L-11098-51A

MODEL: 10-360-C1C

Engine Log: N316EF Date: 04/02/2018 Tach: 564.0 TSMOH: 592.21 Engine TT: 6111.55

Make: Lycoming Model: IO-360-C1C S/N: L-11098-51A

Performed 100-Hour inspection in accordance with Piper Service Manual and FAR Part 43 appendix D.

- Performed the following maintenance items: Drained oil, replaced oil filter P/N AA48110-2 and refilled engine oil with 7 Qts. Of Aeroshell W100 Plus.
- 2. Removed all spark plugs cleaned, tested and reinstalled.
- 3. Removed all fuel injector nozzles, cleaned and reinstalled.
- Cleaned and checked oil pump inlet oil screen, cleaned screen and reinstalled with new crush gasket.
- 5. Performed engine compression check #1 74/80 #2 76/80 #3 75/80 #4 75/80.
- 6. Checked engine to magneto timing.
- 7. C/W AD 2015-19-07 Fuel Line and Clamp Inspection. In compliance with para. (e)(ii) of AD and Lycoming MSB No. 342G, check ok. Next Due TACH 664.0 (every 100 hr.)
- 8. Performed engine run up, all checked ok.

I certify that this engine has been inspected in accordance with a 100-Hour inspection and is determined to be in airworthy condition and is approved for return to service

Michael Michael Maisch

A&P3352212

I certify that this Engine has been inspected in accordance with an ANNUAL inspection per Title 14 CFR, Part 43 Appendix D, and is determined to be in an airworthy condition and is approved for return to service.

Anthony Ast 3737987IA

ENGINE LOG: N316EF

DATE: 09/27/2019 TACH: 605.9 TSMOH: 634.11

ENGINE TT: 6153.45 Performed 100-Hour inspection in accordance with Piper Service Manual and FAR Part 43 appendix D.

- Performed the following maintenance items; 1. Drained oil, replaced oil filter P/N AA48110-2 and refilled engine oil with 7 Qts. Of Aeroshell W100 Plus.
- 2. Removed all spark plugs cleaned, tested, and reinstalled.
- 3. Cleaned and checked oil pump inlet oil screen, cleaned screen and reinstalled with new crush gasket.
- Performed engine compression check #1 73/80 #2 78/80 #3 78/80 #4 74/80.
- Removed left magneto, Slick P/N 4372, S/N 98100651 for 500 hr. service and reinstailed. See Aero Accessories FAA Repair Station (#XB2R286L), WO# 48016 for details of repair.
- Removed right magneto, Slick P/N 4370, S/N 96020048 for 500 hr. service and reinstalled. See Aero Accessories FAA Repair Station (#XB2R286L), WO# 48017 for details of repair.
- C/W AD 2015-19-07 Fuel Line and Clamp Inspection, I/A/W para. (e)(ii) of AD and Lycoming MSB No. 342G, Check ok. Next Due TACH 705.9 (each 100 hr.)
- Performed engine run up, all checked ok

See AD compliance report for currency

I certify that this Engine has been inspected in accordance with a 100-Hour inspection and is determined to be in airworthy condition and is approved for return to service.

Milas

Michael Maisch A&P3352212

I certify that this Engine has been inspected in accordance with an Annual inspection per Title 14 CFR. Part 43 Appendix D, and is determined to be in an airworthy condition and is approved for return to service.

Anthony Ast 3737987IA