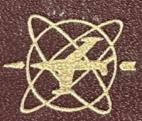
LFT ENG 00 TO PRESENT



The Standard

ENGINE LOG

ASA-93-2

### Engine Record General Information

Manufacturer LYCOMING Serial L-4729-55	Type Certificate	-320-BIA
This engine is currently installed	in aircraft: // b 5	
Minimum Octane Fuel	Oil Grade Summer	Winter
Magneto Time	Point Setting	Firing Order
Spark Plug Gap	The same of the sa	
Manufacturer's Recommended O	verhaul at hours	

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Entries must be of Technician or Re
		- · · · ·	50	
	-we 1	2-14-	00	
	<b>M</b> RCRAFT	ENGINE	ERING IMM.	
	Ba	ntow Air	port 1849	S.O.H
	813	533-1	LDIU	
	air Stadon r	AA Appi	oved VF4RS	31
TAC	that this	ANG-	WE	has
heen ins	pected in acc	ordance	with an	
AN	pected in acc	. inspecti	on and has b	een
determin	ned to be in a	itworthy	dondition.	
A 19 100 100 100 100 100 100 100 100 100	The second second		1-27	
AD list b	ack of log bo	ook.	201	
For deta	is work orde	#	Insper	YEAR
Dill Tuelo	solladiro	-	IIISUSI	
Bill Tiple	Shark and			
		/		
		1		

Bldg. 434 Bartow Airport Bartow, FL 33830 863-5331870 FAA VF4R594M

DATE: 12-14-00 TACH: 3831 604

W.O.1201--N88WW--Left Engine

- 1) Compression Test 80 PSI/ 76,76,76,74
- 2) R/R Air Filter with new.
- 3)R/R 4 Spark Plugs with new
- 4) AD 93-2-5 Lycoming Lines, Inspected.
- 5) AD 96-9-10 Oil Pump Due 7-01
- 6) Repair Air Box Lid.
- 7) Repaired Oil Cooler Bracket
- 8) R/R ALT Air Duct with new.
- 9)R/R 2 Valve Cover GSK with new.
- 10) Test Run-Up OK.

DATE 19	RECORDING TACH TIME	TODAYS	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	03/13	1200	2/ /	EFT ENGINE,
				ILTER WITH NEW,
	TEST R	UN E	NGINE	=, NO LEAKS NOTED
	AT T	1115	TIME	, SEVEN QTS
	AFRA	HFLL	w-1	00, ONE CHU8110
	FILTE	2.	Fon	60, ONE CHU8/10 Forfu H+P 590195508
	11:	3871	.4	

Bldg. 434 Bartow Airport Bartow, FL 33830 863-5331870 FAA VF4R594M

DATE: 7-25-01 TACH: 3906

W.O.7140--N88WW--Left Engine

- 1) AD 96-9-10 Oil Pump, R/R with AS05K19423-AL Impeller Kit with new. R/R Gaskets as Required.
- 2) Change OIl and Filter 8 Qts. 100W.
- 3) Inspect Oil Filter, Found Normal.
- 4) Test Run-Up OK.

MI

nust be ean or Re

Aircraft Engineering, Inc.

Bldg. 434 Bartow Airport Bartow, FL 33830 863-5331870 FAA VF4R594M

DATE: 9-18-01 TACH: 2929

W.O.9125--N88WW--Left Engine

- 1)R/R L/E Bottom Plugs Cyl. #1+3 with new REM38S.
- 2) Test Run-Up OK.

D 199

RECRAFT ENGINEERING INS. Bartow Airport 813 / 533-1870 Repair Station FAA Approved VF4R594M TAC 396 / Total Time 396 / I certify that this 64444 has been inspected in accordance with an inspection and has been determined to be in airworthy condition.  AD is thru Card 2002-23 AD list back of log book. For details work order # 10 2 22 / Inspector	Aircraft Engineering, Inc. Bldg. 434 Bartow Airport Bartow, FL 33830 863-5331870 FAA VF4R594M
Bill John Signature Batting	DATE: 1-11-02 TACH: 3961L 746R  WO#212 N88WW  1. ANNUAL INSPECTION LEFT ENGINE  2. COMPRESSION TEST 80PSI 74 76 76 76  3. CHANGED OIL AND FILTER 8qt 100W PLUS  4. REPLACED AIR FILTERS NEW  5. AD93-2-5 INSPECTED LYC LINES  6, REPLACED FOUR PLUGS NEW

19	RECORDING TACH TIME	TODAYS FLIGHT TOTAL TIME IN SERVICE Description of Inspections, Tests, Repairs and Alteration Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)					
		Drained Aeroshe Aviation	the oil and Il 100W oil Labratorie	Time 4009.14 installed a new CH48110 filter. Added 8 qt. to the crankcase. Took oil sample and sent to s. Replaced intake fuel drain hoses.  328503774 Gulf Coast Airways Maint.	The second secon		
					PARTIE CAN		
					A A SWALK WAS TO		
			11000		11/11/10		

Bldg. 434 Bartow Airport Bartow, FL 33830 941-533-1870 FAA VF4R594M

DATE:9-17-02 TACH: 4051 Hrs.

N88WW-----Left Engine-----

- 1. Changed oil and inspected filter. Serviced with 8 qts. Aeroshell 100W oil.
- Performed ground run up and leak leak check.
- 3. C/W AD93-2-5 by inspection of hoses.

must be endorsed with Name, Rating and Certificate Number of ian or Repair Facility. (See back pages for other specific entries.)

iption of Inspections, Tests, Repairs and Alterations

DATE

RECORDING TACH TODAYS FLIGHT TOTAL TIME IN Description of Inspections, Tests, Repairs and Alterations
Entries must be endorsed with Name. Rating and Certificate Number of

This is to certify that the engine described hereafter has been overhauled to manufacturer's new parts limits by Zephyr Aircraft Engines, Inc. Engine disassembled, cleaned, and inspected in accordance with manufacturer's instructions. All steel parts magnafluxed. Reassembled in accordance with manufacturer's current overhaul manual. Engine test run. All applicable Airworthiness Directives are in compliance. See A.D. list supplied. A description of these repairs is on file at this agency under:

W.O. No. 23052

MFG. Ly coming

Serial No. L- 4729-55 A

DATED MAR. 18, 2003

MODEL Z.O.-320-BIA

Time in svc. 409/

(813) 788-3305 • Fax (813) 788-4412 39320 Avenue B • Zephyrhills, FL 33542

F.A.A. APPROVED REPAIR STATION #VI4R597M

Authorized Signature

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Entries must be of Technician or Re
II	4091		イカフリ	The same
	Date 4	-10-	03	7/0 1
	Barto	w Airpor 333-187 Approve	t O <i>SMO</i> d VF4R594	Y-0
TAC   certify that	thisA ted in accordance the inspections	g (N)	ine 40	has
determined to AD's thru Qa AD list back	o be in airwb	rthy con	dition.	
For details w	ork order #	A	Inspector Rating	2
Jane 4 of	THE TOTAL OF THE T		1,1,000,11,4	

Bldg. 434 Bartow Airport Bartow, FL 33830 863-5331870 FAA VF4R594M

DATE: 4-1-03 TACH: 4091

WO#A431 N88WW

1. INSTALLED FIREWALL FORWARD NEW ENGINE . REPAIR ALL BAFFLING AND PAINT. INSTALL HIGH TEMP BAFFLING SEAL. REMOVE AND REPLACE ALL FUEL AND OIL HOSES WITH NEW. CHANGE OIL AND FILTER. INSPECT AND POWDER COAT ENGINE MOUNT. REMOVE AND REPLACE ENGINE MOUNT RUBBERS WITH NEW, INSTALI O/H PROP GOVERNOR. FLUSH ALL ENGINE CABLES. FLIGHT TEST ONE HOUR AND POST FLIGHT INSPECT.

DATE	RECORDING TACH	TODAYS FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of
19	TIME		SERVICE	Technician or Repair Facility. (See back pages for other specific entries.)
	5 -	20	1 - 11	3 TUAC 4/18
			1951	of person susual
				8a) apa - USS
				JOST ORUY UN
			•	MT 200122
				Maspyse
-10-03	1.16		<b>D</b>	
	4100			O OIL AND FILTER, SERVICED
			WITH	8 975 ABROSHELL 100 W. TEST, RUN OK.
				M/ S
				JABJO 472

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				11/1/4445 (18)
Ai	Bai	434 Bar tow Flori	eering, tow Airport da 33830 AA VF4R5	
TEST R	CED OIL ANI			ww
REPAIRED FAA REGU	AFT, ENGINE AND INSPECT LATIONS AND PERTINENT DE	ED IN ACC	ORDANCE V	WITH CURRENT ETURN TO

DATE 19	IIEGOIIGHT	TODAYS FLIGHT	TOTAL DITIME IN E SERVICE TO	escription of Inspections, Tests, Repairs and Alteration tries must be endorsed with Name, Rating and Certificate Number of chnician or Repair Facility. (See back pages for other specific entries.)
	4202		4202	small III
Airc	Bldg. 434 B Bartow Fl 863.533.1870	artow A orida 33	irport 8830	AIRCRAFT ENGINEERING INC.  Bartow Airport  813/533-18705/90H - 111
DATE: N88WW	5/12/2004 LEFT ENGIN		TACH: 420 WO A5	Repair Station FAA Approved VF4R594M  TAC 4202 Total Time 4202  I certify that this ENGINE has
2. COMP 3. CHANG	L INSPECTION C TEST 80 PSI 1. 7 SE OIL AND FILTE SHELL 100W	8 2. 78	3. 4. 78	been inspected in accordance with an inspection and has been determined to be in airworthy condition.  AD's thru Card 2004
4. REPLA 5. LUBED 6. CLEAN	CED AIR FILTER	PAINTE		AD list back of log book.

Bill Turley Signature

8. RUN UP AND TEST FLIGHT NORMAL

DATE 19	RECORDING TACH TIME	TODAYS	TOTAL TIME IN SERVICE	Entries mu	st be endorse	ed with Name, Ra	ating and Certific	nd Alterations cate Number of specific entries.)
Airc	Bldg. 434	Bartow Florida	33830					
DATE:	8/31/20 LEFT EN		TACH: WO# A8410	44				
	NEW OIL AND N NORMAL	FILTER 8	qt 100W					
EPAIRED AN AA REGULA ERVICE. PE IT THIS REPA	ID INSPECTED II TIONS AND IS AI RTINENT DETAIL AIR STATION UNI	PPROVED LS OF THE DER WORK	NENT ABOVE WANCE WITH CU FOR RETURN TO REPAIR ARE ON KORDER NUMB	RRENT D				
GNED_	MIC		31-04 FOR					
	PORT, BARTOW,							
								© 199

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
engine satisfa	e, replaced le actoryEN	eft vacuur D	ach / Install n regulator i	led overhauled vacuum pump p/n 211CC s/n 114708 on left filter p/n B3/5-1, and cleaned all lines. Operational check
				A CONTRACTOR OF THE PARTY OF TH
-				

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alternatives must be endorsed with Name, Rating and Certificate Number Technician or Repair Facility. (See back pages for other specific	mber of
				133 1341	
Airc	Bldg. 434 B Bartow Fl 863.533.1870	Bartow Airp Iorida 3383	ort 80		
DATE: N88W	1/4/2005 T LEFT ENGI		94 WO A155		
The state of the s	ED OIL AND FILT HELL 100W NORMAL	TER SERVI	CE WITH 8 QTS		
REPAIRED AN	T, ENGINE(S), OR D INSPECTED IN TIONS AND IS APP	ACCORDAN	CE WITH CURRE	ENT CONTRACTOR OF THE PROPERTY	
SERVICE. PER	RTINENT DETAILS	OF THE RE	PAIR ARE ON F		
AIRCRAFT PN	GINDERING INC.				

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Descript Entries mus Technician	ion of Inspections, Tests, Repairs and Alterations at be endorsed with Name, Rating and Certificate Number of or Repair Facility. (See back pages for other specific entries.)
86	Bldg. 43	4 Bartow Florida 3	3830		AIRCRAFT ENGINEERING INC.  Bartow Airpor: 813 / 533-1870  Repair Station FAA Approved VF4R594M
N88WW  1 ANNUAL 2 COMP TE 3 CLY # 4 4 INSTALL 5 AD2002-2 6 LYC SB 5 7 RETUNE	INSPECTION OF ST 80 PSI, 1.7 REPAIRED ED NEW AIR FI 26-1 LYC LINES 65 FUEL PUMF	8 2.78 3.1 LTER C/W BY I	WO# A 6	CONTRACTOR OF THE PARTY OF THE	TAC

Description of Inspections, Tests, Repairs and Alterations DATE RECORDING TODAYS TOTAL Entries must be endorsed with Name, Rating and Certificate Number of TACH FLIGHT TIME IN Technician or Repair Facility. (See back pages for other specific entries.) 19 TIME SERVICE Aircraft Engineering, Inc. Bldg. 434 Bartow Airport Bartow Florida 33830 863.533.1870 FAA VF4R594M DATE: 12/21/2005 **TACH: 176 N88WW** LEFT ENGINE WO# A 12535 1 CHANGED OIL & FILTER, SERVICED W/ 8 QTS **AEROSHELL 100W** 2 LYC SB 548A N/A BY S/N 3 TEST RUN UP NORMAL THE AIRCRAFT, ENGINE(S), OR COMPONENT ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FAA REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER NUMBER
A 12535 DETE: 12-21-05 SIGNED **FOR AIRCRAFT** ENGINEERING, INC. AVF4R594M BARTOW AIRPORT, BARTOW, FLORIDA 33830

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)				
50	202	41.	3	Date 8/1/06 AIRCRAFT ENGINEERING INC.				
Aircraft Engineering, Inc.  Bldg. 434 Bartow Airport Bartow Florida 33830 863.533.1870 FAA VF4R594M				Repair Station FAA Approved VF4R594M  TAC 202 Total Time 44/3  I certify that this ENGINE has				
COMP TEST INSTALL NE AD 02-26-01 INSTALL 2 N	ENGIN SPECTION CON 80 PSI. 1.78 W AIR FILTER LYC LINES. CA IEW LEFT ALTE	IPLETE 2.72 3.78 W BY INSI	WO# A 7624  8 4.76  PECTION	been inspected in accordance with an  ANNUAL inspection and has been determined to be in airworthy condition.  AD's thru Card 2006-13  AD list back of log book.  For details work order # A 7624  Inspector  Bill Turley Stanature  Rating				
KUN UP & F	LIGHT TEST NO	RMAL						

DATE 19	RECORDING TACH TIME	TODAYS	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	E	ngine I	og Book	Entry 233
Date: /	7 NOV.	2004		Engine Time: 4444
Installed t	he TAS 100 p	preheater		
Name: Z	Sen Co	ndes	) f	AA PH: CANAGE
1/106	THEN	\$ 33	3-101	THE 3 4/14. CHAIRE ON GUL &
man (	POT.	HERE	SHELL	9 CHECK FOR METTER- CUT
1 est	RUN	& Co	HOK	FOR LEAKS & PROPER APPROPRI
06.	Willy	le c	HILL	wig fel Cities City ferowautics,
JHAR C	65 1C1	11/2	14. F.	ATH HOP. E.S. SI COVR 964 C

DATE: 9/5/90  I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND IS DETERMINED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE, W.O. # 5727  SIGNED  FOR CHARLES CITY AERONAUTICS, CHARLES CITY, IA	pections, Tests, Repairs and Alterations sed with Name, Rating and Cértificate Number of acility. (See back pages for other specific entries.)
9/15/07 Tach: 279 Total Time: 4490 Differential compre 67/80; #4 72/80 Clean and regap 8 spark plugs. Chang Ashless Dispersant. Change oil filter and clean screen- smple to MVTL-results on file at CCAERO. Clean all inj AD 2002-26-01, amndt. 39-12986 by inspection of inject next 100-hr. or Annual Inspection or injector maintenant exhaust gasket. Test run and check for leaks and proper William R. Kyle, Chief Inspector for Charles City Aeronal Approved Repair Station #CQVR 964 C	check both for metal-found none. Send oil ector nozzles. Clean injector screen. C/W ctor lines-OK. Next insp. per this AD due at ce. Time mags to engine? Install new #3

DATE 19	TACH FLIGHT		TOTAL TIME IN SERVICE  Description of Inspections, Tests, Repairs and Entries must be endorsed with Name, Rating and Certificate Technician or Repair Facility. (See back pages for other spe			
					0 - int # Loft Engine L 4720 FFA	
	Date: 5/1/2009		Air	craft # N88VWV	Serial # Left Engine L-4729-55A	
	Tach: 307.5		То	tal Time: 4518.5	SMOH: 427.5	
	<ol> <li>CW AD 20</li> <li>AD 2009-0</li> <li>Compressi</li> </ol>	08-14-07 I 2-03 DNA on Check Oil and Filt his engine	/80 #1 79 #2 er, Cleaned has been in:	2 70 #3 70 #4 72 Suction Screen, Cleaned to	olugs, check magneto timing spection and was determined to be in airworthy  Certification # AP 2740971 IA	
	Piepaieu by.	Timouty	VVAIG			

DATE 152010	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
6-17	339.1			Propeller dynamically blanced using Micro-Vibe system IRAN published directors, Installed
				18.5 g Q 3:30° AN hardware visult! , 022 1PS Willow Coul Ad 3106061
6/18/10	339.1	SMOS	459.1	TTE. 4550.1
				Compression check # 1 73 #2 68 #3 68 #472  DRAINED Oil, Changed Filter, REPENISHED  with 7 at Aeroshell 15050, CW AD 2008-14.
				TAW MSB 34ZE, CLEARED & GAPPED PLUGS
				Changed Attalital.
				I certify that Engine was Inspected IAW An Annual Inspection And Was determined to
				no in Au worthy Condition.
				AP 2740971 IA

DATE 19-701	RECORDING TACH TIME	TODAYS FLIGHT	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)	
		Drai Filte	ined oil arer cartridg	ach: 359.2 ETT: 4570.2 SMOH: 479.2  and added 7 quarts of As 15W50.  ge was/was not (replaced) with P/N  Filter was cut and inspected. Leak check was Satisfactory/Unsatisfactory.
			Signature	AP2740971 Certificate#/Type

TE 2011	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Entries must be endorsed with	ons, Tests, Repairs and Alton Name, Rating and Certificate Nu (See back pages for other specific	mber of
07/01 W O		N88WW		Lycoming IO-320-B1A	Engine 1 Logbook	
Comp	leted appual	inamastica	Left Tach 37	70.5 TTE 4581.5 SMOH 490.5		
1.CW	400 hour ine	nection on	in accordance	ce with manufacturers inspection produe at Tach Time 770.5	ocedures manual.	
3. Oil a 4. Con 5. Con I certify	and Filter not appression Chapleted 500 h that this Eng	changed di eck Cold #* our inspect gine has be	ue to recentl 1 68 #2 66 # ion on bith n	3 342E. No defects noted at this time is accomplished on lines ly completed 3 70 #4 67 mags, next due at 5081 TTAF d in accordance with an Annual instantial		
De III a	n airworthy c	ondition.		12		
4			Sig	Timothy Ward A	A&P 2740971 IA	
08/16/1	1 N8	38WW	ı	ycoming IO-320-B1A	Engine 1 Logbook	
Left Eng	ine TTE 460	6.5 SMOH	515.5		3.10 - 2032011	
Performe quarts of	ed oil and filte f Aeroshell 1	er change i 5VV50 Oil a	n accordance	ce with the manufacturers maintena o oil filter. Washed engine, run up a	ance manual. Installed 8	
The abou	ve work was	completed	in accordan	ce with current regulations of the F	ederal Aviation Administration	
			Sign	ned 1		

#### Morgan Enterprises 4119B Elaine DR Los Lunas, NM 87031 (505) 565-4081

N#-N88WW	Make - Piper	Model – PA-39	Serial # - 39-125
Date-9/28/11	Hobbs- 1303.1	Tach-420.3	Left Engine

Drained oil and replaced with 8 qts Aeroshell 15W50 oil. Changed 48110 oil filter. Cleaned. Ran and leak checked. No leaks found.

Eugene R. Morgan A&P 2006621

N88WW Tach 436.2 L/H engine 04-06-2012
Changed oil and filter. Serviced w/8 qts. Phillips 20w50 and installed
new CH48110-1 filter. Run up engine, no leaks detected this date and time.
David Husbands A & P 3305796

TACHE TOTAL TIME: 4682  I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE, W.O. # 6450  SIGNED CHIEF IN SO.  FOR CHARLES CITY AERONAUTICS, CHARLES CITY, IA FAA APPROVED REPAIR STATION #CQVR964C	spections, Tests, Repairs and Alterations orsed with Name, Rating and Certificate Number of Facility. (See back pages for other specific entries.)
#2 68/80; #3 69/80; #4 72/80 Clean and regap 8 spark plugs Aeroshell 15W50 Change oil filter and clean screen-cut apa none. C/W AD 2011-26-04, amndt. 39-16894 buy inspection inspection per this AD due at next Annual, 100-hr or fuel inj check for leaks and proper operation-OK. Chief Inspector for Charles City Aeronautics, Inc, Charles C Station #CQVR964C	s. Change oil-fill sump with 8 qt. art old filter and check for metal-found n of fuel injector lines-OK-next jector maintenance. Test run and William R. Kyle,

DATE 2014	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE  Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)					
			N88WW Hobbs: 1419.5 ETT: 4738.9  (L)Engine Log					
			Cascade Aircraft Management Inc. 3901 Aviation Way Caldwell, Idaho 83605 (208) 649-5106 Inspected in accordance with an annual inspection using Piper Twin Comanche Service Manual, Table III-I Inspection Report as a guide. AD's researched through bi-weekly 2014-16. certify that this engine has been inspected an accordance with and annual inspection and wa determined to be in airworthy condition.  Matthew Brannon  2819884 ARP IA					
			Matthew	Brannon _	., , ,	28198	84 A&P IA	
			N88WW Hobbs: 1439.5 ETT: 4758.9		(L)Engine Log		9/07/2017 IO-320-B1A s/n L-4729-55A	
© 1991 ASA			Complied with con	3901 Aviation W	ade Aircraft Management Inday Caldwell, Idaho 83605 (2) 1/H #1 engine 11 74/80 #2	08) 649-5106		

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Insp Entries must be endorse Technician or Repair Fa	ed with Name, Rating	g and Certificate	Number of		
			N88WW  Hobbs: 1419.5  ETT: 4770.1 — White (L)Engine Log s/n L-4729-55  Cascade Aircraft Management Inc. 3901 Aviation Way Caldwell, Idaho 83605 (208) 649-5106  Inspected in accordance with an annual inspection using Piper Twin Comanche Service Manual, Table III-I Inspection Report as a guide. C/W oil change with 8 qts of Phillips XC20W-50. Replaced 4 spark plugs, timed mags and cleaned sonic cleaned fuel injectors. Repaired seized L/h alternate air cable, lubed all control cable ends and washed engine. AD's researched through bi-weekly 2017-12. I certify that this engine has been inspected an accordance with and annual inspection and was determined to be in airworthy condition.						
				Brian Lubinsky B	- Lilus	3559189	A&P IA		

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Altera Entries must be endorsed with Name, Rating and Certificate Number Technician or Repair Facility. (See back pages for other specific en	
			E	Stec Aviation  515-965-1020 3700 SE Convenience Blvd Ankeny, Iowa 50021 W/O 18-9269	

7/31/2018 N88WW Hobbs-1491.1, Drained Oil and replaced with 8 qts 20W50X/C. Removed inspected and replaced oil filter CH48110-1. No contamination found. Run up and leak checked okay.

Michael D. Callison A&P 3622569

LH Engine Log Entry

N88WW Hobbs 1506.0 Tach 638.5 October 12, 2018

Removed, cleaned, inspected and reinstalled Injectors on cylinders #1 and #3. Work performed referencing Lycoming SB 1275C, paragraphs 1-6 and Lycoming Manual P/N: 60294-7, Sections 8 and 10. Performed run up and leak check, no defects noted.

Sp Aircraft Trevor Davidson

Dan 5

A&P 3606080

The aircraft identified above was inspected and repaired in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service with respect to the work performed

19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				N88WW  10-11-2018 AFTT: Lengine Tach: 636.8 R Engine Tach: 496.2  Removed left engine #1 exhaust pipe. A patch was welded over a crack and wear spot. Re-installed exhaust pipe with new gaskets.  Tim Wilson AP2751361IA  SMOH 766.80 Calculation:  tach 636.80  -tach 471.00 6-1-13  165.80 HCs  + smon 591.00 6-1-13  SMOH 756.80
				- SMON = 756.80 THIS ENTRY 636.80

## Left Engine Loy Entry

### N88WW Tach 1523.0 TSN 4883.6 SMOH 792.6 April 1, 2019

Completed a 100 hr. Inspection this date IAW Piper Twin Comanche Series Service Manual Inspection Guide for 50, 100, 200 hr inspections as required. Drained oil and serviced with 7 qt XC20W50. Removed & inspected filter with no abnormal findings. Installed a new AA48110-2 filter. Checked A.D. Notes thru Issue 2019-06. Removed spark plugs & installed 8 new UREM38E plugs. Completed a differential compression check #1-74/80, #2-74/80. #3-72/80, #4-75. Post maintenance engine runs and leak checks OK. I certify this engine has been inspected in accordance with a 100hr inspection and was determined to be in airworthy condition for return to service at this time.

Chris Reber

A&P 3064194IA

The engine identified above was inspected and repaired in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service with respect to the work performed

7-19-19	TACH		Renevel STARRER, Installed Light Weight
	672.9		SKYTEL STARTOR PIN 149NIR SIN
			H-TO41018 IN Reference 10 HARTREIL
			Drawing ST2 Sw1. Complete Weist And
			BALANUE RENSIN, In WILL APRISIBLEM
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	145/43 [	YOUR 3753VO	24 MIN SELECTION 3753
		1 7 T OSK	A CY DIAM TO MAKE

DATE Description of Inspections, Tests, Repairs and Alterations ENGINE MODEL: Jetstream Aviation dorsed with Name, Rating and Certifica DATE: 8/21/2019 ENGINE S/N: A/C TSN: 4933.1 REG. NO: N88WW 4700 W Aeronca St. Papari Facility (See back pages 1997) ENG TT: 4933.1 WORK ORDER: Boise, ID 83705 TSMOH: 842.1 0954-08-2019 Phone: 208-345-3730 HOBBS: 1572.5 **Engine Entries** Drained oil, removed and inspected oil filter. No findings. Installed CH49110-1 filter and replenished 8qts of Phillips 20-50X/C. Ground ran engine no leaks noted Maintenance Release The aircraft and/or component(s) on N88WW was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. DATE: 8/21/2019 SIGNED Work Order: 0954-08-2019 Kevin Ladetisaw, A&P: A&P2823302 Printed by EBis 3 (datcomedia.com) JETSTREAM Jetstream Aviation ENGINE MODEL: DATE: 9/20/2019 ENGINE S/N: A/C TSN: 4955.7 REG. NO: N88WW 4700 W Aeronca St. ENG TT: 4927.7 WORK ORDER: Boise, ID 83705 TSMOH: 836.7 0961-09-2019 Phone: 208-345-3730 HOBBS: 1595.1 **Engine Entries** Adjusted left CGR-30P engine monitor tach time to reflect current engine TSMO 836.7 hrs. Ref CGR-30P Installation manual II 02151301 Maintenance Release The aircraft and/or component(s) on N88WW was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. SIGNED: DATE: 9/20/2019 Work Order: 0961-09-2019 Kevin Laddusaw, A&P: A&P2823302 Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: 10-320-B1A ENGINE S/N: L-4729-55A REG. NO: N88WW WORK ORDER

JETS: REAM Jetstream Aviation

Boise, ID 83705 Phone: 208-345-3730

DATE: 11/15/2019 4700 W Aeronca St. A/C TSN: 4981.4 ENG TT: 856.1 TSMOH: 856.1 HOBBS: 1620.8

Alterations ∋ Number of ecific entries.)

#### **Engine Entries**

0985-11-2019

Performed a 100 Hour inspection using a checklist meeting the requirements of FAR 43 appendix D. Compressions as follows #1. 70/80, #2. 75/80, #3. 72/80, #4 68/80. Serviced with 8 quarts of Phillips 20W50 X/C. Cut and inspected oil filter, no contaminates noted. Cleaned, gapped, inspected and tested spark plugs. Checked and adjusted magneto timing as necessary. I certify that this engine was inspected in accordance with a 100 hour inspection and was determined to be in an air worthy condition.... Complied with AD 2015-19-07 by inspection... Removed engine rocker covers and performed internal rocker cover inspection. Reinstalled covers.... Installed Reiff Preheat System HotStrip oil sump heaters and thermostat in ref to Reiff installation instructions

Maintenance Release

The aircraft and/or component(s) on N88WW was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and

DATE: 11/15/2019

SIGNED.

Work Order: 0985-11-2019

Kevin Laddusaw A&P: A&P2823302

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: 10-320-B1A ENGINE S/N (L): L-4729-55A REG. NO: N88WW WORK ORDER: 1058-04-2020

**JETSTREAM Jetstream Aviation** 

> 4700 W Aeronca St. Boise, ID 83705 Phone: 208-345-3730

DATE: 4/29/2020 A/C TSN: 5029.9 ENG TT (L): 4983.7 TSMOH (L): 892.7 HOBBS: 1669.3

#### Left Engine Entries

Drained oil replaced oil filter with CH48110-1. Cut open filter with no findings. Replenished oil with 8 qts of Phillips 25-50 X/C.

Maintenance Release

The aircraft and/or component(s) on N88WW was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and

DATE: 4/29/2020

SIGNED

Work Order: 1058-04-2020

Kevin Laddusaw, A&P: A&P2823302

Printed by EBis 3 (datcomedia.com)

DATE

1276A East 4100 North

Buhl, Idaho 83316

1-208-543-8999

TSTOH: TSMOH: TT: Lycoming M/N: IO-320-B1A S/N: L4729-55A Tach: 951.6 Date: 11/25/2020 N88WW Left Engine: Replaced the alternator with an overhauled ALX-8521R Hartzell Engine Technologies alternator, s/n: H-U02806. Replaced the regulator with a new R1510N Zeftronics alternator controller. The controller was installed in accordance with Zeftronics STC SA8031SW, installation instructions. See FAA Form 337, dated 11/25/2020, in the aircraft paper work. Replaced the #4 cylinder's EGT probe with a new P-110F, fast response probe from Electronics International. Spaced the EGT and CHT probe connections apart, covered them with fiberglass sleeving, and secured the leads with cable ties. I certify this engine to be airworthy for return to service in accordance with the work performed this date. Pertinent details are on file at this repair facility under Work Order 01428, Invoice 92201 dated 10/28/2020. A copy of this work order and invoice was given to the operator to become a permanent part of the aircraft records.

Monty L Shobe Month Maple A&P3687365



1276A East 4100 North

Buhl, Idaho 83316 Date: 01/14/21 N88WW Lycoming M/N: IO-320-B1A S/N: L-4729-55A Hobbs: 1746.0 TT: 5221.7 TSMOH: 1010.7 TSTOH:

1-208-543-8999

Left engine's 100 Hour Inspection at aircraft annual completed this date in accordance with FAR 43, Appendix D and applicable Lycoming Service manual. Removed the top spark plugs and ran a compression test: #1 72/80, #2 73/80, #3 74/80, #4 72/80. Removed the bottom plugs, cleaned, inspected, gapped, and installed the spark plugs with new M674 gaskets, torqued spark plugs to 28 foot pounds. Cleaned the spark plug lead ends with acetone, applied dielectric grease to them and installed the leads. Checked the mag timing and found it to be at 25° BTC. Replaced the fuel injector line clamps

on #3 & #4 cylinders with new clamps and hardware. Drained engine oil, half way through the drain took an oil sample. Removed the oil filter, installed a new AA48110-2 Tempest oil filter and safety wired it. Cut open the old filter, some carbon was present but no metal. Removed the suction screen, found some foreign debris, no metal, cleaned the screen, installed, and safety wired. Serviced the engine with 7 quarts of 20-50 X-C Phillips oil and 1 pint of CamGuard. Checked the fuel controller inlet screen, cleaned with solvent, some debris was present, installed the screen and safety wired. Tightened the hose clamps for the push rod drain tube couplings on the #3 & #4 cylinders. Removed the fuel controller screen, some foreign debris present, cleaned the screen with solvent, installed and safety wired the screen. Cleaned the engine with solvent, test run of the engine proved satisfactory, no leaks were found. See ICA Compliance Sign-off sheets behind the Continued Airworthiness Tab in the aircraft records. C/W AD 15-19-07, External Fuel Injector Lines, by inspection, NID in 110 hours,

Hobbs: 1856.0, ACTT: 5331.7. See complete AD listing in aircraft paper work. All of the work performed above was done in accordance with the applicable chapters of the airframe, engine, or propeller maintenance manuals and current regulations ations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file at this repair facility per of under Work Order 01453, Invoice 9223 Mated 12/14/2020, Invoice 92240 dated 01/01/2021, Invoice 92249 dated 01/14/21. ntries.) A copy of this work order and invoice were given to the operator to become a permanent part of the aircraft records. A&P3458405 Jim Williamson 01/14/2021 I certify that this engine has been inspected in accordance with a 100 Hour Inspection and was found to be in an airworthy condition. Jim Williamson ~A&P3458405IA **Genavco Airmotive** Apr 26, 2021 N88WW LEFT POWERPLANT Pavette Airport \$75 Hobbs: 1784.2 TSN: 1048.9 Replaced exhaust system with new from Acorn Welding P/N 23850-008/010/011/014. See authorized release certificate. Repaired oil cool support baffling. Replaced oil pressure bypass valve due to leaking. Replaced induction 3.5" scat tube due to deterioration. Replaced cylinder #2 and #4 EGT probes with new. A&P 2923275 IA - Nikita Clark 26APRZOZI 5291.0 DRAINED OIL, REPLACED FELTER WI CH48110-1 FILTER. ADD 7 QUARTS 1209. 3 PHILLIPS XC 20W-50 OIL. PUN ALC INSPECT FUR LEAKS NO ANOMALIES.

CLAYTON WHALON 2861105

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DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
180CT21	TACH	5341,9		PRAINED OIL. REPLACED FILTER W/CH48110-1 FILTER. ADDED 7 ATL PHILLIPS XC20W-50 OIL. RAN A/C & INSPECTED FOR LEAKS. NO ANDMALIES, CLAYTON WHALE 2851105 OPERATOR
	HOBOS	1814.6		FILTER. ADDED 7 ats PHILLIPS XCZOW-50
	ACT	5245,3		OIL RAN A/C & INSPECTED FOR LEAKS.
				NO ANOMALIES, CLATTON WHALE 2851105
				OPERATOR SS

RECORDING TACH TIME	TODAYS	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alteration Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)					
The state of the s			PropTT: 467.2 L/H 467.2 R/H Hobbs: 1819.6 Misc:					
Make	: Piper		Model: PA-39 S/N:					
clean and Inspect. Compression check as follows: All cylinders 69/80 or better.  Reinstalled spark plugs same engine with new gaskets (8) P/N: U674. Serviced sur with (8) Qts. Phillips XC20W50 oil. Installed new oil filter P/N: CH48110-1. Checked Engine timing IAW engine data tag. Engine ground run all temps/pressures normal, no leaks noted at this time.								
I certify that this L/H engine has been Inspected IAW FAR 43.(D) 100Hr. Inspection and has been found to be airworthy at this time.								
Name	e: John F	H. Sanders J	Jr. Cert: 3527277A&P/IA					
_ Co	o: JH Sa	nders Aviati	ion Services Llc Sign:					
	Date Tail# Make Drain clean Reins with ( Engir no le	Date: 02/21/2 Tail#: N88WA Make: Piper Drain oil remo clean and Insp Reinstalled sp with (8) Qts. P Engine timing no leaks noted I certify that the and has been	TACH TIME  Date: 02/21/2022 Hou Tail#: N88WW  Make: Piper  Drain oil remove filter and clean and Inspect. Compile Reinstalled spark plugs sawith (8) Qts. Phillips XC20 Engine timing IAW engine no leaks noted at this time.					

DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
13AU622	5422.8			DRAINED OIL REPLACED FILTER
				WITH CHY8110-1 FILTER. ADDED 7
				QUARTS PHILLIPS XXX20 W-50 BIL.
				RAM A/C & INSPECTED FOR LEAKS.
				NO ANOMALIES.
				OPERATOR 2861105 S
				OPERATOR 2861105 50
			ART AT LESS	

