

**ENGINE LOG**  
**EL-13P**

# ENGINE DESCRIPTION

MANUFACTURER Lycoming MODEL 0320A2B

SERIAL NUMBER L42367-27A DATE OF MANUFACTURE \_\_\_\_\_

RATED BHP 150 RPM \_\_\_\_\_ MANIFOLD PRESSURE \_\_\_\_\_

FUEL REQUIRED OCTANE/PERFORMANCE 80/87 min

REGISTERED OWNER Barry Willis

STREET & NO. 1488 Eagle River Rd

CITY, STATE, ZIP Eagle River, Alaska 99577

REGISTERED OWNER \_\_\_\_\_

STREET & NO. \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_





### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
8-31-90	Tach 25.7 TT 25.7	
	Replaced the crankshaft <del>with</del> nose seal - Relocated the throttle cable - Siliconed between the oil cooler & the bottom cowling	
		Davis Aircraft Repair Dan Hollingsworth A/P 574 248703
3/15/91	-Propeller McC 78/46 (35.6 hrs since repair)	3/22/88 - Tach Time 35.6 Benny Wells 3/15/91
4/2/91	Sensenich Prop - Purchased 74/56 Sensenich standard prop for PA-18-150. Serial # K7827 / Re pitched to 74/52 by Alaska Prop Specialists 7/10/92	

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		I certify that this <del>Eng</del> engine has been inspected in accordance with a 100 h.v. inspection and was determined to be in an airworthy condition this date 7-12-91
	Tach read 39 Tot time 039	Replace d Nose Seal, installed metal float in Carb. & lubed controls oil change 75/50 Aero Shell
	#173 #274 #374 #476 #5 #6	Alfred R. Meyer A & P 505 484874 IA
4-12-91	91	converted Engine To Burn Auto Fuel Per STC SA 1931CE
6/14/91	55.4 hrs	-AL Meyer - adjusted mixture so idle down to 600 RPM - Replaced cork washer in Left tank <del>sight gauge</del> sight gauge for fuel - Lubed fuel tank switch (hard to turn)

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
8-27-91	Tach 64.50	Replaced the hoses on the oil return lines - Fixed a leak in the primer line on left side of engine.
		Dan's Aircraft Repair 1931 Merrill Field Dr. Anchorage, Alaska 99501
		Dan Hollingsworth A+P 574248703
		I certify that this Engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition. Oil Screen ✓ Mag PTS ✓ Time ✓
		this date 4-15-92
	Tach read 089 Tot time 089.5moh	Alfred R. Meyer A & P 505 484874 1A
	#1 71 #2 72 #3 68 #4 72 #5 #6	-26x10.5x6 - Goodyear tires installed (10pds more ea than 8:50x6's = 20pds increase total) at same time wheel bearings re-packed - 7/11/92. - Prop re-pitched to 76/52-R

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
2/14/93		125 hrs - ELT Battery Replaced - 2yr Battery Replaced - Jan 95 Bang Miller
		ARTEX AIRCRAFT SUPPLIES, INC. 10714 S. Tomahawk Rd. Canby, OR 97013 (503) 266-3959 800-547-8901 LOG BOOK ENTRY 2/14/93 E.L.T. BATTERY REPLACEMENT DATE JAN 95
		I certify that this Engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition.
		this date 4-10-93
	Tach read 34 Tot time 134.5moh	Alfred R. Meyer A & P 505 484874 1A
	#1 26 #2 72 #3 78 #4 64 #5 #6	
7-1-93	Tach 150.8	Did a compression check #1 12/80, #2 72/80 #3 74/80 + #4 73/80
		Dan's Aircraft Repair 1931 Merrill Field Dr. Anchorage, Alaska 99501
		Repair Station # @XDR02J Dan Hollingsworth

## INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5-24-94		Washed the engine - Pulled the spark plugs & did a compression check # 1 $\frac{74}{80}$ # 2 $\frac{72}{80}$ # 3 $\frac{73}{80}$ & # 4 $\frac{75}{80}$ - Changed the oil (Aeroshell 15W/50) - Inspected, cleaned & gapped the plugs - Inspected & cleaned both oil screens - Inspected & cleaned the gascolator - Pulled both mags & carb & took to Accessory Specialist (Mags <del>was</del> Repaired & AD, Carb - Venturi) - Installed a new air filter - Inspected the exhaust - Had both stacks repaired at Allee Dodge A/C - Inspected the oil temp sending unit for leaks & security - Inspected the primer lines for leaks & security - Inspected the baffling - Removed the starter & installed a light weight Sky Tech starter - Removed the generator & installed an InterAv alternator kit - Inspected the carb heat box & carb heat swivel - Inspected the mixture swivel - Inspected the engine controls for operation & travel - Lubricated the controls - Inspected the engine for any leaks, cracks or potential problems - AD <sup>3</sup> complied with

## INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		<p>The aircraft, airframe, <u>engine</u> or propeller identified herein was repaired and inspected in accordance with an <u>Annual</u> inspection in accordance with current FAA regulations and is approved for return to service. Pertinent details of repair are on file at this repair station under Work Order # <u>565</u> Date <u>5-24-94</u>                      Signed <u>Dan Hall</u> Tach <u>208.7</u>                      Total in Service <u>993.7</u> SMOH <u>208.7</u></p> <p style="text-align: center;">Dan's Aircraft Repair • 1931 Merrill Field Drive                      Anchorage, AK 99501 • (907) 278-9516                      Repair Station #QXDR022J</p>
7-1-95		Removed the exhaust system & inspected - Installed a new muffler - Installed new valve cover gaskets - Checked the timing on the mags - Inspected the fuel & oil screens - Inspected the fuel & oil lines for leaks & security - Compression check # 1 $\frac{73}{80}$ , # 2 $\frac{72}{80}$ , # 3 $\frac{75}{80}$ & # 4 $\frac{76}{80}$ - Inspected the spark plugs - Changed the oil (Aeroshell 15W/50) - Inspected the air filter - Inspected the primer system - Inspected the baffling - Inspected the mixture & carb heat swivel - Inspected the engine controls for operation & travel - Lubricated the control cables -







### INSPECTION & MAINTENANCE RECORD

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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
3-30-99	1946	Annual inspection - replaced the #2 cylinder with a new Millennium cylinder - installed new thrust buttons on the other 3 cylinders - Compression check # 1 <sup>78</sup> / <sub>80</sub> , # 2 <sup>77</sup> / <sub>80</sub> # 3 <sup>78</sup> / <sub>80</sub> + # 4 <sup>77</sup> / <sub>80</sub> - insp. the baffling + installed some new baffle seal - installed a new primer jet - insp. the carb heat box - insp. the controls for travel + operation - insp. the fuel + oil lines - AD <sup>15</sup> Complied with through 99-01-05 - insp. the carb heat + mixture swivels
<p>The aircraft; airframe, <u>engine</u> or propeller identified herein was repaired and inspected in accordance with an <u>Annual</u> inspection in accordance with current FAA regulations and is approved for return to service. Pertinent details of repair are on file at this repair station under Work Order # <u>1946</u> Date <u>3-30-99</u>                  Signed <u>Don Hollingsworth</u> Tach <u>351.5</u>                  Total in Service <u>1136.5</u> SMOH <u>351.5</u>                  Dan's Aircraft Repair Inc. • 1931 Merrill Field Drive                  Anchorage, AK 99501 • (907) 278-9516                  Repair Station #QXDR022J</p>		

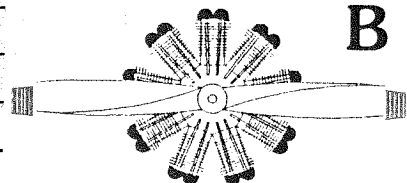
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4-13-00	2247	Annual inspection - inspected the exhaust system - installed a new air filter - checked the timing on the mags - installed a new nose seal - replaced the Sky Tec starter (122) with new - washed the engine + applied sealant on the top case seam - changed the oil (Aeroshell 40W) - compression check # 1 <sup>72</sup> / <sub>80</sub> , # 2 <sup>75</sup> / <sub>80</sub> , # 3 <sup>60</sup> / <sub>80</sub> + # 4 <sup>72</sup> / <sub>80</sub> - AD <sup>15</sup> Complied with through 2000-06 Bi-weekly.
<p>The aircraft; airframe, <u>engine</u> or propeller identified herein was repaired and inspected in accordance with an <u>Annual</u> inspection in accordance with current FAA regulations and is approved for return to service. Pertinent details of repair are on file at this repair station under Work Order # <u>2247</u> Date <u>4-13-00</u>                  Signed <u>Alexander Smith</u> Tach <u>375.9</u>                  Total in Service <u>1160.9</u> SMOH <u>375.9</u>                  Dan's Aircraft Repair Inc. • 1931 Merrill Field Drive                  Anchorage, AK 99501 • (907) 278-9516                  Repair Station #QXDR022J</p>		

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-10-00	Tach: 407.8	
	Removed	the engine + sent to BJ's for repair

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
7-19-00	Tach: 407.8	
	Reinstalled	the accessories - replaced the baffling on the RH side, the LH side rear + the front LH piece with new - replaced the front RH piece with a serviceable one - installed Aeroshell 40W - timed the mags + completed a ground run up + checked for leaks - replaced the EGT probe with new



## B J Custom Aircraft Engines

PO Box 3269  
Palmer, Alaska 99645 907-745-6030

07-10-00 TACH TOTAL TSMOH Disassembled engine (s/nL42367-27A) due to leaking crankcase. Reassembled using a recertified camshaft, lifters, crankgear, new main bearings, oil pump impellers, gaskets and seals. Rods were not removed from crankshaft. C.W. A.D. 91-14-22 and 96-09-10. No accessories received or installed at this time. All work done I.A.W. a Lycoming parts and service manual. Robert J. [Signature] AZP521027209

The above described work is approved for return to service. W/O # 2387  
Dan's Aircraft Repair, Inc.  
1931 Merrill Field Dr.  
Anchorage, AK 99501 [Signature]  
CRS #QXDR022J Authorized Signature

# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
5/21/04		Compression Check - #1 74/80 #2 80/80 #3 73/80 #4 69/80 - Cleaned & Gapped the Spark Plugs - Changed the Oil (Aeroshell 50w) - Grounded Magnetos - Ran up the engine and checked for proper operation - AD's complied with thru bi-weekly issue #2004-10
		<p>The aircraft; airframe, <u>engine</u> or propeller identified herein was repaired and inspected in accordance with an <u>ANNUAL</u> inspection in accordance with current FAA regulations and is approved for return to service. Pertinent details of repair are on file at this repair station under Work Order # <u>3011</u> Date <u>5-21-04</u></p> <p>Signed <u>[Signature]</u> Tach <u>430.6</u></p> <p>Total in Service <u>1215.6</u> SMOH <u>430.6</u></p> <p>Dan's Aircraft Repair Inc. • 1931 Merrill Field Drive Anchorage, AK 99501 • (907) 278-9516 Repair Station #QXDR022J</p>

1216.5

# INSPECTION & MAINTENANCE RECORD

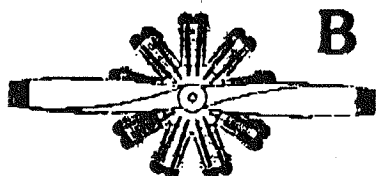
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11/30/05		REMOVED ENGINE FOR OVERHAUL (BJ's CUSTOM ENGINES) - CARBURETOR & MAGNETO'S OVERHAULED (FISHCREEK AIRMOTIVE) - ENGINE CONVERTED TO 160 HP USING NEW ECI TITAN CYLINDER ASSEMBLIES,ROCKER ARMS &VALVE PUSHRODS WERE INSPECTED THRU YELLOW TAG - ENGINE REASSEMBLED IN ACCORDANCE WITH LYCOMING O/H MANUAL (SEE 337) - REINSTALLED ENGINE ON PIPER PA-18 N7696D - REPLACED ENGINE MOUNT BUSHINGS - REPLACED AIRFILTER - ADDED OIL AEROSHELL 40W MINERAL - REPLACED ALTERNATOR BELT - CLEANED & SERVICED SPARKPLUGS - Ran up engine and checked for proper operation - AD's complied with thru bi-weekly issue #2005-23. See AD listings.
		<p>The aircraft; airframe, <u>engine</u> or propeller identified herein was repaired and inspected in accordance with an <u>ANNUAL</u> inspection in accordance with current FAA regulations and is approved for return to service. Pertinent details of repair are on file at this repair station under Work Order # <u>41164</u> Date <u>11-30-05</u></p> <p>Signed <u>[Signature]</u> Tach <u>431.5</u></p> <p>Total in Service <u>1216.5</u> SMOH <u>0</u></p> <p>Dan's Aircraft Repair Inc. • 1931 Merrill Field Drive Anchorage, AK 99501 • (907) 278-9516 Repair Station #QXDR022J</p>

INSPECTION & MAINTENANCE RECORD

DA1

BJ CUSTOM AIRCRAFT

Fax : 907-745



**B J Custo**

**PO Box  
Palmer,**

10-26-05 TACH *4315* TOTAL *121605* TSMOH  
27A) disassembled, cleaned and inspected  
inspected and no indications were observed  
tach shaft, new rod and main bearings, r  
followers, hydraulic units, gaskets and  
installed at this time. C/W A.D. 2004-1  
S.B. 530. All work done I.A.W. a Lycomi  
*Robert J. J. I.A.W. 2007209*

INSPECTION & MAINTENANCE RECORD

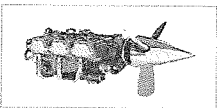
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		ENGINE AND PROPELLER WERE DYNAMICALLY BALANCED WITH CHADWICK-HELMUTH'S 192-A. WEIGHTS WERE ADDED IN ACCORDANCE WITH PUBLICATION NUMBER AW-9511-2 THE "SMOOTH PROPELLER" AND THIS ALSO INCLUDES THE INSTALLATION OF THE MILAND BALANCING BRACKETS USED ON THE 2D30 AND 23E50 SERIES HAMILTON-STANDARD PROPELLERS, DOCUMENT NO. RMSP-98-1 REVISION 1 DATED SEPTEMBER 1, 1999.
	HOBBS/TACH TIME <i>433.0</i>	<i>4-4-06</i>
	ROD MILAND <i>Real Miland</i>	2770599
<i>6-5-07</i>	TACH <i>460.4</i>	TOTAL <i>1245.4</i> TSMOH <i>28.9</i>
		COUPLING REMOVED FOR INSPECTION. COMPRESSION #176/80 #275/80 #376/80 #474/80. (HOT) CHANGED OIL AND INSPECT SCREEN. INSPECT INTAKE AND EXHAUST FOR LEAKS, CHECKED MAG TIMING. ENGINE TEST RAN AND LEAK CHECKED. PROP INSPECTED AND DRESSED. I CERTIFY THIS ENGINE AND PROPELLER HAVE BEEN INSPECTED I/A/W AN ANNUAL INSPECTION (CONT)





# INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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PH: 517 278-6516

143 E CHICAGO RD COLDWATER MI 49036

ELITE AIR SERVICE

10/07/2009

N2696D

TACH 495.9

Performed oil change serviced engine with 20w50xc oil inspected oil screen no contaminates noted. Installed oil pan heater P/N 441. Removed propeller and installed spinner kit P/N 05-07745. I certify that the above component is approved for retune to service.

*Monico Lopez*

Monico Lopez AP366963174

# INSPECTION & MAINTENANCE RECORD



ELITE AIR SERVICE

09/10/2013 N7696D 0-320-A2B Tach: 506.5 ENGTT: 1301.5 TSMO: 85.0

- 1) Inspected engine per FAR 43 apx D Annual inspection.
- 2) Performed oil change, drained oil and removed screen inspected screen for contaminates none found reinstalled and serviced engine with 20W50XC oil.
- 3) Performed compression check as follows - #1 76/80, #2 77/80, #3 75/80, and #4 75/80.
- 4) Cleaned fresh air filter and reinstalled.
- 5) Removed spark plugs cleaned, gapped, inspected and tested replaced one with new P/N REM40E.
- 6) Inspected all hoses and engine controls inspected mounting hardware, no defects noted.
- 7) Adjusted magneto timing on left and right magneto's
- 8) Repaired primer lines at #2 and #3 cylinders.
- 9) Overhauled primer valve with kit P/N 05-03637.
- 10) Inspected fuel system and cleaned fuel strainer bowl screen and drained carburetor bowl.
- 11) Researched AD's all AD complied with up to 2013-17.

*Monico Lopez*  
Monico Lopez AP3692583

I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

*Monico Lopez*  
MONICO LOPEZ AP36925831A







Elite Air Service 300 Airport Dr. Coldwater MI 49036 517 278-6516

3/03/2017 N7696D Piper PA18A S#18-5924 Lycoming O320-2AB S#L42367-27A TAC 539.8 SMOH 108.3 TT 1324.8

Inspected engine as required by FAR 91.409(a)(1) per checklist meeting requirements of FAR 43.15(c)(1) and FAR 43 appendix D. Compressions are as follows, #1/76, #2/78, #3/78, #4/64. Cleaned gapped and rotated spark plugs. Drained oil and cleaned screen. Filled oil with 8 quarts of 20/50 XC.

All work done IAW Piper PA18A and Lycoming maintenance documents. Completed post inspection operational check per FAR43.15(c)(2). This engine was inspected accordance with an annual inspection and has been determined to be in an airworthy at this time.

*Rueben A Walkup*

Rueben A Walkup A&P 3368961 IA



Elite Air Service 300 Airport Dr. Coldwater MI 49036 (517)278-6516

April 18<sup>th</sup> 2018, N7696D Piper PA18A S#18-5924 Lycoming O320-2AB S#L42367-27A TAC 558.0 SMOH 126.5 TT 1343.0


Inspected engine as required by FAR 91.409(a)(1) per checklist meeting requirements of FAR 43.15(c)(1) and FAR 43 appendix D. Compressions are as follows, #1/77, #2/78, #3/77, #4/64. Cleaned gapped and rotated spark plugs.

All work done IAW Piper PA18A and Lycoming maintenance documents. Completed post inspection operational check per FAR43.15(c)(2). This engine was inspected accordance with an annual inspection and has been determined to be in an airworthy at this time.

*Rueben A Walkup*

Rueben A Walkup A&P 3368961 IA

### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
03/01/2019		 ELITE AIR SERVICE Lycoming 0-320-A2B serial # L42367-27A SMOH: 129.9 TTENG: 1346.4 TACH: 561.4 Annual/100 hr. Inspection performed per check list oil screen checked , oil changed 7 qts 20/50 XC Cyl compression all > 74/80 spark plugs cleaned and gap all tested. AD 68-05-01R1 muffler checked and found satisfactory next due TTAF: 4160.4 timing checked at 25 degrees BTDC. I certify that this engine has been inspected IAW an 100 hr inspection and was determined to be in an airworthy condition. 574306216A&P Joel E. Newton <i>Joel Newton</i>
1 Aug 2019		Oil changed with 7 quarts 20/50 XC, oil screen checked OK. Tach time 584.4 WF Stocks A&P 262 4567

