

THE **adlog**<sup>TM</sup> AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

#2  
Right  
**ENGINE  
MAINTENANCE  
RECORDS**

*Custom Airmotive, Inc.*  
FAA REPAIR STATION #DC2R763K  
AIRCRAFT ENGINE SERVICE  
2702 N. SHERIDAN, BLDG. B  
TULSA, OKLA. 74115  
(918) 836-6836  
FAX (918) 836-9431

***Custom Airmotive, Inc.***

FAA REPAIR STATION #DC2R763K

**2702 N. SHERIDAN PH. 918-836-6836**

**Tulsa, Okla. 74115**

**WARRANTY:**

All engines rebuilt by Custom Airmotive after March 1, 1992, are guaranteed to be free from defects in material and workmanship, under normal use and service for six months or 240 hours; whichever occurs first. An additional prorated warranty will apply to parts only to manufacturers published T.B.O. Accessories will be guaranteed by the vendor. All parts and labor to be approved by Custom Airmotive prior to commencement of work. Cracked cylinders and crankcases excluded from all warranties unless it can be determined that they are a direct result of improper assembly. Loss of revenue or use of aircraft claims will not be allowed. Proration to be based on hours logged, or 40 hours per month; whichever is greater.

## ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N8621Y

Engine Manufacturer Lycoming

Model IO-320-B1A

Serial No. L-3832-55A

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

☒ Right      ☐ Left  
☐ Front      ☐ Rear

**AERO**  
TECH PUBLICATIONS INC.  
PO BOX 1359 / SOUTHOLD, NY 11971-0965

(516) 765-9375

FAX: (516) 765-9359

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ENGINE MAJOR OVERHAULED TO MANUFACTURERS SPECIFICATIONS.

TT \_\_\_\_\_ TSMOH 1:1 (test run)

Model: IO-320-B1A S/N L-3832-55A

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with manufactures specifications and current Regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repairs are on file at this repair station under,

Work order no.: 14307

Date: 12/10/96

Signed: Mark D. Lichting for: CRS#DC2R763K

CUSTOM AIRMOTIVE, INC.  
2702 N. SHERIDAN, BLDG. B  
TULSA, OK 74115 USA  
ph. (918)836-6836 fax(918)836-9431

Note: Fuel system and magnetos were also overhauled (see appropriate tags). Spark plugs, fuel pump, oil filter, and ignition harness are new.

Note: STC# SE8193SW was incorporated during this engines overhaul; this is oversizing the cylinder bores to P.010 and fitting with P.010 pistons and rings. A copy of the STC is attached in rear of this log book.

## AIRWORTHINESS DIRECTIVES FOR: TYPE CERTIFICATE NUMBER 1E12

MODEL IO-320-B1A S/N L-3832-55A WO# 14307 TT \_\_\_\_\_

|            |                                                                           |
|------------|---------------------------------------------------------------------------|
| A.D.#      | METHOD OF COMPLIANCE                                                      |
| 64-16-05   | C/W BY USE OF A NEW P/N LW-15473 PUMP.                                    |
| 65-03-03   | CRANKSHAFT MAGNAFLUXED AT OVERHAUL; PARAGRAPH (A) TO BE C/W BY A/C OWNER. |
| 66-20-04   | C/W BY USE OF PROPER GASKET WITH ADAPTER.                                 |
| 67-22-06   | FUEL SERVO OVERHAULED AT CRS# HK2R875K.                                   |
| 73-23-01   | N/A TO THESE AL-14077-1 PINS.                                             |
| 75-08-09   | P/C/W; ALSO SEE 96-09-10.                                                 |
| 75-09-15   | FUEL MANIFOLD OVERHAULED AT CRS# HK2R875K.                                |
| 87-10-06R1 | N/A PER S/N OR THESE ROCKER ARMS.                                         |
| 90-04-06R1 | C/W; HAS ALL STEEL PARTS AND CLAMPED PROPERLY.                            |
| 91-14-22   | C/W LYCOMING S.B.475B AT THIS OVERHAUL.                                   |
| 92-12-05   | N/A TO THESE AL-14077-1 PINS.                                             |
| 93-02-05   | C/W LYCOMING S.B.342B AT THIS OVERHAUL.                                   |
| 93-11-11   | N/A TO THIS NEW FUEL PUMP.                                                |
| 95-26-02   | N/A TO THIS ENGINE.                                                       |
| 96-09-10   | C/W; USED SL-18109-AS KIT (05K19423-S EQUIV.).                            |
| 96-23-03   | C/W; HAS ACCEPTABLE CODE ON FUEL PUMP.                                    |

SIGNED: Mark D. Lichting FOR: CRS# DC2R763K ON: 12/10/96

| DATE<br>1997 | TOTAL<br>TIME<br>IN<br>SERVICE | TOTAL<br>TIME<br>SINCE<br>OVERHAUL | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                 |
|--------------|--------------------------------|------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                                | 1.1                                | 3958                                  | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                               |
| JAN 12       |                                |                                    |                                       | This engine ReInstalled on<br>N 8621 Y - PA 30C - ser 30-1762<br>in Right position - Engine mount<br>Refinished and checked for cracks<br>- none found - all new fluid hoses<br>Installed - all baffles resealed -<br>starter, Alternator and prop Gov.<br>overhauled - new "P" 1600 Installed<br>8 qts Aeroshell 40 wt mineral oil<br>Added - Engine Run-up and<br>operational check - ok —<br>J R Brooks 529682447 IA |
| 8-1-97       |                                | 22                                 | 3980                                  | RT Tach<br>Compression $7\frac{5}{8}$ or better all cyls.<br>Timing check - ok - mag grounding<br>check - ok - Inspection controls for<br>operation & security —<br>I CERTIFY THAT THIS AIRCRAFT/ENG<br>HAS BEEN INSPECTED IN ACCORDANCE<br>WITH 100/AN INSPECTION AND<br>WAS DETERMINED TO BE IN<br>AIRWORTHY CONDITION.<br>RT TACH. TIME 3980 TOTAL TIME 523.0<br>JAMES R. BROOKS AP529682447 IA<br>Shook 8-1-97      |
| 7-23-98      |                                | 95                                 | 4053                                  | Oil & Accomplished this date - R&R Filter<br>@ CH48110 - 8 qts Aeroshell 1000 & 1 oz<br>cpr oil blend added. Filter out, contents<br>Normal. Race Emth magnets installed<br>on Filter. Eng washed & leak checked                                                                                                                                                                                                        |
|              |                                |                                    |                                       | SUB-TOTALS this page R. Boston 1689704 ATP.                                                                                                                                                                                                                                                                                                                                                                             |
|              |                                |                                    |                                       | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                       |

| DATE     | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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|          |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 11-28-98 | 125                   | 4083                      |                              | <p> #1 78/80 #2 78/80<br/> #3 75/80 #4 77/80 Oil<br/> change accomplished, FILTER R &amp; R with CH48110. All plugs cleaned &amp; gap'd (.018) Timing checked. mag grounding checked. Horned &amp; inspected all controls. Used Aeroshell 100 (8 qts) &amp; 1 can AV Blend. R &amp; R Exhaust header for welding repair @ ATL. Aerospace Welding Reinstalled new exhaust compression gaskets Engine washed &amp; OAR checked R &amp; R sex vacuum pump with new Sigma Tek vacuum pump All applicable A.P.'s for this engine complied with including Piper Service Bulletin 1026, By inspection. </p> <p> I have inspected this aircraft and was determined to be in air worthy condition. </p> <p> I certify that this aircraft has been inspected in accordance with a <u>100 hr</u> / <u>Annual</u> inspection and was determined to be in air worthy condition. </p> <p> 2014452 TH </p> |
|          |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|          |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| DATE     | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                     |
|----------|-----------------------|---------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                   |
| 03-06-99 |                       | 159                       | 4117                         | Oil change accomplished. R & R CH48110 filter. Filter cut, contents examined, findings normal. 8 qt Aeroshell w100 & 1 can AV Blend added. Engine worked & leak checked. R. Boston 1689704 ATP              |
| 06-24-99 |                       | 202                       | 4160                         | Oil change accomplished. R & R CH 48110 filter. Old filter cut, contents examined with normal findings. 8 qts Aeroshell w100 & 1 can AV Blend added. Engine worked & leak checked. R. Boston 1689704 ATP    |
| 7-26-99  |                       | 239                       | 4197                         | Oil & accomp. R & R CH48110 filter. Old filter cut, examined; normal. 8 qt Aeroshell w100 added along with 1 can AV Blend. Plugs cleaned, gapped (.018"). Timing & greasing checked. R. Boston 1689704 ATP. |
| 8-2-99   |                       | 249                       | 4207                         | Alternator R & R. ALX 8421 installed. Cracked idler bracket weld repaired. Functional check is normal. R. Boston 1689704 ATP.                                                                               |
| 8-26-99  |                       | 277                       | 4235                         | Oil L. R & R CH48110. 8 qts Aeroshell w100 & 1 can AV Blend. Filter normal                                                                                                                                  |
|          |                       |                           |                              | SUB-TOTALS this page Comp ✓ 1=78psi 3=77psi                                                                                                                                                                 |
|          |                       |                           |                              | TOTALS—Carry forward to next page 2=77psi 4=78psi                                                                                                                                                           |
|          |                       |                           |                              | R. Boston 1689704 ATP                                                                                                                                                                                       |

| DATE           | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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|                |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10-2-99        | 320                   | 4278                      |                              | Oil A. Filter OK, contents normal<br>CH48110 installed. Added 8 qts<br>Aeroshell W100 & 1 can AV Blend. Eng<br>washed & leak checked. R Barlow 1689709440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 02-21-<br>2000 | 352                   | 4310                      |                              | Engine Inspected in accordance<br>with a 100hr/annual inspection<br>Compression readings 1) 78/80 2) 78/80<br>3) 75/80 4) 76/80<br>Valve wear check performed IAW<br>AD.<br>Air Filter R&R with BA-105<br>Plugs removed, cleaned, gaped &<br>reinstalled. Added 8 qts Aeroshell<br>W-80 & 1 can AV Blend. Filter<br>cut, inspected @ N.S.F. Timing &<br>mag grounding checked<br>Lubes & checked All controls—<br>complied @ Piper Service Bul<br>1026 by inspection.<br>AD. 97-15-11 does not Apply as<br>Engine uses AL14077-1 pins<br>AD. 98-02-08 will be due in<br>648 hrs.<br>AD. 98-17-11 NOT Applicable—<br>Cranksnaps work performed by Luson<br>Armstrong. |
|                |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|          |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                      |
|          |                       |                           |                              | AD. 98-18-12 - engine USBS<br>welded pumps <u>not</u> Romeo<br>/LEAK<br>Engine washed & leak checked<br>Ground gear check completed<br>All systems working<br>W. H. Hutton<br>2014452TH                        |
| 5-1-00   |                       | 401                       | 4359                         | Oil A. FILTER CUT; CONTENTS NORMAL<br>CH48110 installed, screens v & cleaned -<br>NO Findings Added 8 qts Aeroshell<br>W-100 & 1 can AV blend. Eng. washed<br>& leak checked. R Boston owner.<br>1689704 ATP   |
| 7-18-00  |                       | 441                       | 4399                         | Oil B. FILTER CUT/CONTENTS NORMAL.<br>Screens pulled & cleaned - no findings,<br>CH48110 FILTER installed. 8 qts Aeroshell<br>W-100 & 1 can Blend. Eng. washed &<br>leak checked. R Boston - owned 1689704 ATP |
| 12/07/01 |                       | 481                       | 4439                         | Oil B. FILTER CUT NSF. Screens<br>pulled; NSF. Installed new CH48110<br>FILTER, & 8 qts Aeroshell W 80 / 1 qt<br>AV Blend. Eng washed & leak checked.<br>R. Boston, owner, ATP 1689704                         |
|          |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                           |
|          |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                              |

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|          |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 05/23/01 | 487                   | 4445                      |                              | <p>Engines inspected TAD 100hr/mon</p> <p>inspection Compression Reading (all) were:</p> <p>1 = 76 psi                      3 = 77 psi</p> <p>2 = 78 psi                      4 = 74 psi</p> <p>Valve wear check performed TAD</p> <p>AD Air Filter R &amp; R</p> <p>@ BA-10 elements. Plugs removed, cleaned &amp; gapped to .016". Added 8 qts Aeroshell W100 &amp; 1 can AV Blend. Filter cut, screen pulled: NSF. mag timing (internal &amp; to engine) checked &amp; set. Dimples couplings checked. ground checked. lubed &amp; checked all controls.</p> <p>BAFFER CRACK repaired @ doorboard</p> <p>R &amp; R oil temp probe with new AH-005 kit. Lubed &amp; checked all controls. Complied with Piper SB 1026 by inspection. AD 97-15-11 NOT App. AS PL14077-1 piston pins are used. AD 98-02-08 due in 480 hrs. AD 98-17-11 NOT Applied: CRACKS fixed by custom Airman. AD 98-18-12 N/A</p> <p>Engine uses Wadlow pumps. Engine washed, ground operation run.</p> |
|          |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|          |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



DESCRIPTION OF WORK PERFORMED—  
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

TOTALS brought forward from previous page

H&L Aircraft Service Inc.  
1765 McCollum Pkwy.  
Kennesaw, GA. 30144  
(770)427-5400

Tech: 4532.78 SMOH: 574.78  
Date: 07-04-2002 Pos.: Right

TTE: \_\_\_\_\_

Engine/Propeller check completed this date along with a Annual aircraft inspection. Compression checked: #1 77/80 #2 77/80 #3 79/80 #4 77/80. See A.D. Compliance Record for Airworthiness Directives. Run-up leak check - No leaks noted. Engine considered to be in airworthy condition.

*Woody L. Holton*  
Woody L. Holton A.I. 2014452

9/10/03

Tech 604

4568.7

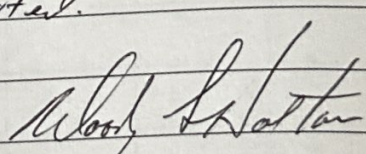
Eng/Propeller check completed this date with annual aircraft inspection. Compression checked 75/80, 75/80, 76/80, 75/80 on cyl #1 thru #4. Spark plugs cleaned and gaped. Both mass removed and reinstalled for A.D. note, see A.D. compliance record. Ground ops check completed. All systems normal. No leaks noted.

*Woody L. Holton*  
2014452 EA

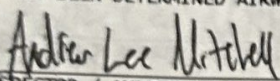
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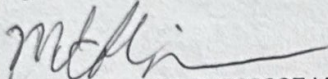
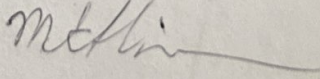
| DATE     | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|-----------------------|---------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                       |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 01/30/04 |                       | 625                       | 4589                         | CHANGED oil + filter with ch 48110<br>added 7ats Aeroshell 100 Plus + 1<br>CAN OF AV Blend<br><br>Steve W. Ward 2720534                                                                                                                                                                                                                                                                                                                                                  |
| 08/28/04 |                       | 659                       | 4623                         | charged oil + filter with ch 48111,<br>Added 7ats Aeroshell 100 Plus + 1<br>CAN OF AV Blend.<br><br>Steve W. Ward 2720534                                                                                                                                                                                                                                                                                                                                                |
| 10/05/04 |                       | 659                       | 4623                         | Eng/Propeller inspection completed<br>this date with Annual aircraft<br>inspection. Compression checked<br>75/80, 75/80, 75/80, 75/80 on cyl. #1 thru #4.<br>Spark plugs cleaned & gapped.<br>Exhaust system removal, new<br>gaskets installed and reinstalled.<br>Oil and filter changed. Eng<br>serviced with 7ats Aero Shell<br>100 W and 1 can AV Blend.<br>Ground ops checks completed.<br>All systems normal. No leaks<br>noted.<br><br>Ward 2720534<br>2014452 JA |
|          |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|          |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| DATE    | TOTAL<br>TIME<br>IN<br>SERVICE | TOTAL<br>TIME<br>SINCE<br>OVERHAUL | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|--------------------------------|------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3/11/06 | 4556.6                         | 692                                |                                       | <p>TOTALS brought forward from previous page</p> <p>I certify that this <sup>propeller</sup> <del>engine</del> has been inspected with the annual aircraft inspection and is considered to be in air worthy condition. Compression check all: 70/80, 78/80, 76/80, 72/80 on cylinders #1 thru #4. Spark plugs cleaned and gaped on top, replaced with new on bottom. Oil and L.O. changed. 2 gts. Hon Shell 100 plus and 1 can of lubelaid serviced. Ground open check completed. All systems normal no leaks noted.</p> <p style="text-align: right;"> <br/>           2614452 IIA         </p> |
|         |                                |                                    |                                       | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|         |                                |                                    |                                       | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|---------|-----------------------|---------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Tph                   |                           |                              | TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                           |
| 9/12/07 | 4664                  | 699.4                     |                              | I certify that this engine has been inspected with the annual aircraft and propeller inspection and is considered to be in airworthy condition. Compression checked: 74/80, 75/80, 76/80, 78/80 on cylinders #1 thru #4. Spark plugs cleaned and gapped. Oil and filter changed. 7gts Aero Shell 100 w serviced with one cup added. Ground per check completed. All systems normal. No leaks noted. |
|         |                       |                           |                              | <i>Wally Linton</i><br>2014452                                                                                                                                                                                                                                                                                                                                                                      |
| 9/19/08 | 4661.9<br>4668.6      |                           |                              | I certify that this engine has been inspected with the annual aircraft inspection and considered airworthy. Compression checked: 74/80, 74/80, 77/80, 75/80 on cyl #1 thru #4. Spark plugs cleaned & gapped. Oil and filter changed. 7gts Aero Shell 100 w with one cup added serviced. Ground per check completed. All systems normal. No leaks noted.                                             |
|         |                       |                           |                              | <i>Wally Linton</i> 2014452 FA                                                                                                                                                                                                                                                                                                                                                                      |
|         |                       |                           |                              | SUB-TOTALS this page                                                                                                                                                                                                                                                                                                                                                                                |
|         |                       |                           |                              | TOTALS—Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                   |

| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
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| Graham Aircraft Engines LLC 95 East Aviation Way Newnan, Ga 30263 X0GR358Y<br>LOG ID# 157 27-September-2019 WOH 1487/1 X0GR358Y<br>NB821Y S/N TACH 4677.8 TSMOH 713.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                           |                              | Pg 1 / 2                                                                                |
| TO-320-B1A L-3842-55A<br>DISASSEMBLED, CLEANED & INSPECTED CRANKCASE, OIL SUMP & ALL INTERNAL PARTS. REJECTED: ALL MAIN & ROD BEARINGS, ROD NUTS & BOLTS, (1) VERNATHERM, (1) CRANK GEAR BOLT, (1) CAM, (8) LIFTERS<br>INSTALLED:<br>(1) CRANKCASE M/N: 145Y REPAIRED BY CRANKCASE SERVICES [CRS HIHR0960] ON W/O 29324.<br>(1) CRANKSHAFT S/N: INSPECTED BY GRAHAM AIRCRAFT ENGINES [CRS X0GR358Y]<br>(1) CAMSHAFT P/N: LW11754 REPAIRED BY AIRCRAFT SPECIALTIES SERVICES [CRS DD2R764K] ON W/O 253110.<br>(8) NEW LIFTERS P/N: 15B26588<br>(8) HYDRAULIC UNITS P/N: 15B26066 OVERHAULED BY AIRCRAFT SPECIALTIES SERVICES [CRS DD2R764K] ON W/O 254530.<br>(4) CYLINDERS P/N: 75042 REPAIRED BY GRAHAM AIRCRAFT ENGINES [CRS X0GR358Y] ON W/O 1487-2.<br>ASSEMBLED: CASE HALVES & SUMP W/ NEW MAIN BEARINGS, ROD BEARINGS, ROD BOLTS & NUTS, NOSE SEAL, GASKETS, RUBBER HOSES, & SEALS. VAC PUMP & OIL COOLER NOT INSTALLED BY GRAHAM. APPLICABLE ADS PERTINENT TO THIS ENGINE MODEL & S/N, WITH REGARDS TO THIS MAINTENANCE EVOLUTION, C/W @ TIME OF SERVICE. IAW LYCOMING DIRECT DRIVE ENGINE OVERHAUL MANUAL<br>I CERTIFY THIS ENGINE HAS BEEN REPAIRED IN ACCORDANCE WITH THE APPLICABLE LYCOMING SPECIFICATIONS.<br>IT HAS BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE AND IS A CONDITION FOR SAFE OPERATION.<br><div style="display: flex; justify-content: space-between;"> <div> <br/>           INSPECTOR / ANDREW LEE MITCHELL         </div> <div>           X0GR358Y<br/>           CERTIFICATE #         </div> <div> <div style="border-bottom: 1px solid black; padding-bottom: 2px;">9-27-19</div>           DATE         </div> </div> |                       |                           |                              |                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                           |                              | SUB-TOTALS this page                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                           |                              | TOTALS—Carry forward to next page                                                       |

| DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TOTAL<br>TIME<br>IN<br>SERVICE | TOTAL<br>TIME<br>SINCE<br>OVERHAUL | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|
| TOTALS brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                    |                                       |                                                                                         |
| <div style="border: 1px solid black; padding: 10px;"> <p>10 April 2020      ENGINE MAINTENANCE RECORD</p> <p>N8621Y                      Piper PA-30                      S/N 30-1762</p> <p>Lycoming IO-320-B1A      S/N L-3832-55A                      Tach 4685.9</p> <p>Drained oil and removed oil filter. Replaced filter with AA48110-1 and serviced with 8 qts. Aeroshell 100 mineral oil. Ran engine and checked for leaks. No leaks noted. <i>M.E. Hinson</i></p> <p style="text-align: right;">M.E. HINSON A&amp;P 1722237 IA</p> </div>                                                                                                                                                                                                                                                                     |                                |                                    |                                       |                                                                                         |
| <div style="border: 1px solid black; padding: 10px;"> <p>N8621Y                      Piper PA-30                      S/N 30-1762</p> <p>Lycoming IO-320-B1A      S/N L-3832-55A                      Tach 4691.0</p> <p>SMOH 734.1                      Since IRAN 13.2</p> <p>Performed Annual/100 hour inspection referencing Lycoming Service Manual and FAR 43 Appendix D.</p> <p>Drained oil and removed filter. Replaced filter with AA48110-1 and serviced with 8 qts. Aeroshell W100. Cut and inspected filter. Negligible debris noted.</p> <p>Checked magneto timing and inspected spark plugs.</p> <p>Compressions: 1-78, 2-77, 3-76, 4-78 over 80 psi.</p> <p>ADs checked through this date.</p> <p>Engine determined airworthy.</p> <p><i>M.E. Hinson</i></p> <p>M.E. Hinson A&amp;P 1722237 IA</p> </div> |                                |                                    |                                       |                                                                                         |
| <div style="border: 1px solid black; padding: 10px;"> <p>31 May 2021      ENGINE MAINTENANCE RECORD</p> <p>N8621Y      Piper PA-30C                      S/N 30-1762</p> <p>Lycoming IO-320-B1A      S/N L-3832-55A                      Tach 4708.2</p> <p>Drained oil and removed filter. Installed AA48110-1 filter and seven quarts Phillips 20W50 XC. Ran engine and checked for leaks. No leaks noted. Cut and inspected filter, negligible debris.</p> <p>M.E. Hinson A&amp;P 1722237IA      <i>M.E. Hinson</i></p> </div>                                                                                                                                                                                                                                                                                        |                                |                                    |                                       |                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                    |                                       | SUB-TOTALS this page                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                    |                                       | TOTALS—Carry forward to next page                                                       |

| DATE          | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|-----------------------|---------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                       |                           |                              | <b>TOTALS</b> brought forward from previous page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 03 March 2022 |                       |                           |                              | <b>ENGINE MAINTENANCE RECORD</b><br>N8621Y Piper PA-30C S/N 30-1762 Lycoming IO-320 B1A S/N L-3832-55A<br>SMOH 769.6 Since Iran 48.7 Tach 4726.5<br><br>Performed Annual Inspection referencing Lycoming Service Manual and FAR 43 Appendix D. Drained oil and removed filter. Installed seven quarts Phillips 20W50 XC and one pint Cam Guard. Cut and inspected filter, negligible debris noted.<br>Checked magneto timing and inspected spark plugs.<br>Compressions: 1- 76, 2- 78, 3- 79, 4- 78 over 80 psi.<br>ADs checked through this date.<br>Engine determined airworthy and approved for return to service.<br><br><br>M.E. Hinson A&P 17722237 IA                                                                                  |
| 15 March 2023 |                       |                           |                              | <b>ENGINE MAINTENANCE RECORD</b><br>N8621Y Piper PA-30C S/N 30-1762 Lycoming IO-320 B1A S/N L-3832-55A<br>SMOH 851.6 Since IRAN 130.7 Tach 4808.5<br><br>Performed Annual Inspection referencing Lycoming Service Manual and FAR 43 Appendix D.<br>Compressions #1 – 79, #2 – 78, #3 – 77, #4 – 76 over 80 psi.<br>Oil and filter not changed at this time.<br>Checked magneto timing cleaned and rotated spark plugs.<br>Performed AD 15-19-07 by adjusting locations and tensions of fuel injector lines and clamps. Next due tach 4908.5 or or when lines or clamps are adjusted or removed.<br>ADs checked through this date.<br>Engine determined airworthy and approved for return to service.<br><br><br>M.E. Hinson A&P 1722237 IA |
|               |                       |                           |                              | <b>SUB-TOTALS</b> this page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|               |                       |                           |                              | <b>TOTALS</b> —Carry forward to next page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

PHT INC 918-835-3660 800-331-5946 FAX 918-835-3696  
2702-D N SHERIDAN Rd - TULSA OK 74115

07-25-24  
INV 628353

NAME: AERO MAINT SERVICE  
8191 TAMiami TRAIL  
FL 34243

P.O.: N8621Y  
SARASOTA  
Ph: 941-303-8700

P/N: PA 30/39-1

DS: TWIN COMMACHE LH & RH SN:

|   |              |                 |                |   |                      |
|---|--------------|-----------------|----------------|---|----------------------|
| 1 | <del>1</del> | 124J001-4CR0340 | 74532 TEF W/FS | ✓ | INJECTOR TO MAN      |
| 2 | <del>1</del> | 124J002-4CR0084 | 74732 TEF      | ✓ | PUMP TO INJECTOR     |
| 3 | <del>1</del> | 124J001-3CR0136 | 23745-8 TEF    | ✓ | OIL PRESS            |
| 4 | <del>1</del> | 193000-4D0194   | 39999-11       | ✓ | MANIFOLD PRESS       |
| 5 | <del>1</del> | 124J001-6CR0136 | 23745-05 TEF   | ✓ | OIL COOLER UPPER     |
| 6 | <del>1</del> | 124J001-6CR0144 | 23745-06 TEF   | ✓ | OIL COOLER LOWER     |
| 7 | <del>1</del> | 124J001-3CR0124 | 23745-03 TEF   | ✓ | FUEL PRESS           |
| 8 | <del>1</del> | 124J001-5CR0146 | 23745-07 TEF   | ✓ | FUEL TO ENGINE PUMP  |
| 9 | <del>1</del> | 124J001-3CR0140 | SAME TEF       | ✓ | HEATER R/H SIDE ONLY |

WE HEREBY CERTIFY THAT THE ABOVE PARTS, INCLUDING ALL MATERIALS, HAVE BEEN MANUFACTURED, TESTED, INSPECTED AND PACKED IN CONFORMANCE WITH ALL OF THE REQUIREMENTS OF YOUR ORDER AND THE APPLICABLE GOVERNMENT SPECIFICATIONS & STANDARDS. RECORDS OF TESTS, INSPECTION AND CERTIFICATION INDICATING THE ABOVE CONFORMANCE ARE ON FILE AT PRECISION HOSE TECH AND ARE AVAILABLE FOR YOUR EXAMINATION. IT IS FURTHER CERTIFIED THAT (A) THE TSO'D PARTS AND/OR MATERIALS REFLECTED HEREIN WERE PRODUCED UNDER FEDERAL AVIATION ADMINISTRATION APPROVED MANUFACTURING AND QUALITY CONTROL SYSTEMS/METHODS AS SET FORTH IN THE FAA ISSUED TECHNICAL STANDARD ORDER AUTHORIZATIONS (TSOA) ISSUED TO STRATOFLEX AND (B) SUCH PARTS AND/OR MATERIAL ARE NEW AND ARE IN CONDITION FOR SAFE OPERATION. IF APPLICABLE, SATISFACTORY COMPLIANCE WITH THE CONDITIONS AND TESTS REQUIRED FOR TSO APPROVAL INDICATES THE HOSE ASSEMBLY HAS MET THE MINIMUM PERFORMANCE STANDARDS AS STATED IN THE TSO. FURTHERMORE, THE RESPONSIBILITY OF THE INSTALLER TO DETERMINE THE INSTALLATION ELIGIBILITY AND THAT IT WILL NOT CAUSE THE HOSE ASSEMBLY TO BE SUBJECTED TO CONDITIONS IN EXCESS OF THOSE FOR WHICH IT HAS BEEN APPROVED.

**Stratoflex  
Delegated  
Supplier #476**

FOR PHT

PRECISION HOSE TECHNOLOGY INC  
HAS DIRECT SHIPMENT AUTHORIZATION FOR STRATOFLEX  
BY VIRTUE AS AN APPROVED DISTRIBUTOR

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|---------------------------|------------------------------|-----------------------------------------------------------------------------------------|
|      |                       |                           |                              | TOTALS brought forward from previous page                                               |

**RH Engine**

8191 N Tamiami Trail  
Sarasota, FL 34243  
[www.AEROMx-srq.com](http://www.AEROMx-srq.com)  
(941) 303-8700

DATE: 07/25/2024

MODEL: IO-320-B1A  
TACH: 4847.35

REG #: N8621Y  
TSMO: 890.4

MAKE: Lycoming  
S/N: L-3832-55A

Removed and Replaced Fuel Injection Line Clamps and associated hardware: Clamps with (8) EIGHT NEW Lycoming P/N# LW-16266-10-75, and (8) EIGHT NEW Lycoming P/N# LW-16266-10-13, Screws with (8) EIGHT NEW Lycoming P/N# STD-860, and Lock Nuts with (8) EIGHT NEW Lycoming P/N# STD-670. Work Performed IAW C 43.13-1B Chapter 8 Section 2 Paragraph 8-31, AD 2015/19/07, and Lycoming SB 342G. Fuel Injection Lines Inspected as required by AD 2015/19/07 effective date 11/03/2015 Paragraphs (H) and (I) and Lycoming SB 342G dated 07/16/2013 Supplement 1 dated 08/29/2013 and /supplement 2 dated 01/23/2014 no defect noted. Next due at TTAF: 4947.35 or after any Maintenance done where AD Paragraphs (H) and (I) Apply. Performed operational check with no faults found

Jerome W. Miles

P#4629918

**RH Engine**

8191 N Tamiami Trail  
Sarasota, FL 34243  
[www.AEROMx-srq.com](http://www.AEROMx-srq.com)  
(941) 303-8700

DATE: 08/02/2024

MODEL: IO-320-B1A  
TACH: 4847.35

REG #: N8621Y  
TSMO: 890.4

MAKE: Lycoming  
S/N: L-3832-55A

Removed and Replaced Firewall FWD Flexible Hoses with (1) ONE NEW Precision Hose Technology INC Hose Kit P/N# PA 30/39-1 IAW AC 43.13-1B Chapter 9 Section 30 Paragraph D Pages 9-19 and 9-20.

Performed operational check with no faults found.

Jerome W. Miles

P#4629918

**Right Engine**

8191 N Tamiami Trail  
Sarasota, FL 34243  
[www.AEROMx-srq.com](http://www.AEROMx-srq.com)  
(941) 360-9074

Date: 11/07/2024

Model: IO-320-B1A  
Tach: 4847.35

REG #: N8621Y  
TTAF: 4847.35  
ETSMO: 890.4

Make: Lycoming  
S/N: L-3832-55A

Performed Annual Inspection.

Changed Oil and Oil Filter. Serviced with eight (8) quarts of Phillips 20W50 and one (1) Champion Aerospace CH48110-1. Inspected old Oil Filter with no contamination found. Cleaned, gapped, tested and torqued spark plugs. Compression test as follows: #1 76/80; #2 77/80; #3 75/80; #4 77/80. Inspected fluid lines, fittings. Cleaned engine and performed run up and leak check with no leaks found. All engine ops checks OK.

This engine has been inspected IAW an Annual Inspection per FAR 43 Appendix D Scope and Detail. I certify this engine was inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Nicholas J. Ranaldo

A&amp;P/IA# 3653259

SUB-TOTALS this page

TOTALS—Carry forward to next page

ENGINE MAINTENANCE RECORD 23 November 2019

N8621Y Piper PA-30 S/N 30-1762

Right engine – Lycoming IO-320-B1A S/N L-3832-55A

Overhauled by Custom Airmotive – Test run 12/10/96

Installed

01/12/97 Tach 3958

SMOH 720.9

Tach 4677.8

WORK PERFORMED:

Removed, cleaned, and inspected oil system finger screen.

R&R oil filter- installed CH48110-1 filter and 8qts. Aeroshell W100 Plus. Ran engine and checked for leaks. No leaks noted.

Oil pressure noted in limits but high. Installed new oil pressure relief spring P/N 68668 and adjusted pressure per Piper Service Manual Section 8A-60(b). Engine operates with oil pressure in mid-range.

Removed left magneto, Bendix S4LN-21 S/N 41782. Installed magneto overhauled by Quality Aircraft Accessories P/N 10-51360-37 S/N A238032. Timed to 25 degrees BTDC.

Timed right mag to 25 degrees BTDC.

Replaced all spark plugs with new UREM38E.

Removed, cleaned, inspected fuel injector finger screen. Reinstalled with new O-rings MS29513-111 and MS29513-011. Ran engine and leak checked. No leaks noted and operation normal.

Removed fuel injection servo P/N 2524145-12, S/N 18914/34, flow divider P/N 2524218-2, S/N 137P and fuel nozzles P/N 2524107. Sent for overhaul by D&G Supply. Reinstalled overhauled system and adjusted per Lycoming and Piper Service Manuals.

ADs checked through this date.

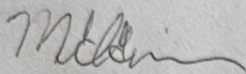
AD 98-02-08 Crankshaft Corrosion Pits complied with. Performed referencing Piper SB 505B. No corrosion pits noted. Next due November 2024 or at engine disassembly.

AD 15-19-07 Clamps and Fuel Lines complied with. Next due at Tach 4877.8, Annual Inspection, overhaul, or any time fuel lines or clamps are removed, serviced, or replaced.

After engine runs lower plugs noted oil fouling on cylinders #2 and #4. All compressions in lower sixties. Removed all cylinders for inspection and cylinders noted glazed. Sent cylinders for inspection and corrective action. After cylinders removed, noted suspected corrosion on two cam lobes. Removed engine and sent for inspection and corrective action.

Installed engine after service by Graham Aircraft Engines. Engine serviced with eight quarts AeroShell 100 mineral oil. Engine run and mixture and idle adjustments made. No leaks noted.

Performed 100 hour / Annual Inspection referencing Lycoming and Piper service manuals and FAR 43 Appendix D. Engine determined airworthy and approved for return to service.



M.E. Hinson A&P 1722237 IA    23 November 2019

07111618021

