

N8715N #2

*The Standard*



**ENGINE LOG**

ASA-SE-1

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER LYCOMING MODEL O-320-E3D  
SERIAL L-30121-27A TYPE CERTIFICATE E-274

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT \_\_\_\_\_

MINIMUM OCTANE FUEL \_\_\_\_\_ OIL GRADE SUMMER \_\_\_\_\_ WINTER \_\_\_\_\_

MAGNETO TIME \_\_\_\_\_ POINT SETTING \_\_\_\_\_ FIRING ORDER \_\_\_\_\_

SPARK PLUG GAP \_\_\_\_\_

MFG. RECOMMENDED OVERHAUL AT \_\_\_\_\_ HOURS.

*The Standard*



**ENGINE LOG**

| DATE<br>19 <u>91</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)                                                                                                                                                                                   |
|----------------------|---------------------------|------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                           |                  | 4665hrs                     | Total Time on Engine                                                                                                                                                                                                                                                                                                                                                                              |
| 10-14-91             |                           |                  |                             | I certify That This Engine has Been<br>Major Overhauled per AVCO Lycoming Overhaul Manual<br>Direct Drive Engine, utilizing SSP 1776. Complied with All<br>Applicable AD, NOTES and Lycoming Service Bulletins, Letters<br>and Instructions.                                                                                                                                                      |
|                      |                           |                  |                             | New Parts installed: STD-1409 - 3ea, SL-STD-8, 24ea,<br>Gear SL72566 <del>1</del> 1ea, Plug 72198 - 8ea, Ring Set 4 Cylinder<br>SL5401-A1 - 1ea, Piston SL75413 - 4ea, Pin SL13445 - 4ea,<br>Expansion Plug SL-STD-1211 - 1ea, Tube 74577 - 4ea, Bearings<br>SL61662 - 8EA, Bearing SL67447 - 8ea, Spring 68668 - 1ea, Gasket<br>Set Major Overhaul SL-69371-1 - 1ea, Impeller Assy SL13775 - 1ea |

(Cont)

| DATE<br>19 <u>91</u> | RECORDING<br>TACH<br>TIME                                 | TODAYS<br>FLIGHT                      | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------|-----------------------------------------------------------|---------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                    | Impeller SL                                               | 60746                                 |                             | - 1ea, Camshaft - Cleaned, Zygo, See Yellow Tag                                                                                                                                                                 |
|                      | Work Order #                                              | 20829                                 |                             | Oil Sump - Yellow TAGED See Work order # 20829,                                                                                                                                                                 |
|                      | Accessory housing -                                       | Yellow                                |                             | Tagged See Work order # 20829, Con Rods -                                                                                                                                                                       |
|                      | Yellow Tagged                                             | See Work order                        |                             | 6170, Crankshaft - yellow tagged See Service                                                                                                                                                                    |
|                      | Work order                                                | 20829                                 |                             | Camshaft P.N. 76097, seal No. 402769 - Yellow                                                                                                                                                                   |
|                      | Tag - Work order #                                        | 17373                                 |                             | Cylinders Yellow TAGS 154 No 89635,                                                                                                                                                                             |
|                      | Replaced #4 intake                                        | Tube and Re Rolled                    |                             | other Intake Tubes,                                                                                                                                                                                             |
|                      | See ATTACHED                                              | Yellow TAGS.                          |                             |                                                                                                                                                                                                                 |
|                      | I certify that this engine has been overhauled and is now |                                       |                             |                                                                                                                                                                                                                 |
|                      | On Time Since                                             | Major Overhaul and can be returned to |                             |                                                                                                                                                                                                                 |
|                      | Service.                                                  |                                       |                             |                                                                                                                                                                                                                 |
|                      | See 337th date                                            |                                       |                             | Y. H. Stinger Apr 527569257 AI                                                                                                                                                                                  |

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

## NOTICE

### 8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Total Time on Engine 4665 hrs.

Overhauled This Engine in Accordance with AVCO LYCOMING Overhaul Manual Direct Drive Engine, utilizing SSP1776 for all Tolerances + Specifications. Complied with Lycoming Service Bulletins, Letters, and Instructions.

Engine Crankcase, Oilsump, Accessory Housing - Cleaned, Zygo, Paint, visually inspected and Measured by Saguaro AVIATION, Inc and Yellow tagged, Work Order # 20829.

Engine CRANKSHAFT - Cleaned, MagnaFluxed, measured, checked for Runout, Polished + Certified by SAGUARO AVIATION, Inc and Yellow tagged, Work order # 20829.

Engine Camshaft - Serial # A62764, Part # 76097 - Re grind Lobes to Manufacturers Specification, MagnaFluxed by FAA Certified Station No SA2R154L and Yellow tagged, Work Order 17373.

Engine Connection Rods - Part # 78030 - MagnaFluxed, Measured + Inspected by C. R. Estegard - A+P # 1524560 and yellow tagged, Work Order # 6170.

Engine Cylinders - Part # EC75907EP Class 4/4-1 Serial: 01604 - Ceramic RIME, welded, Head Part by FAA Repair Station # A62R689K and yellow tagged, WORK ORDER 89635.

New Parts Installed:

- 1) Nut - STD 1409 - 3 ea.
- 2) Washer - SL-STD-8 - 24 ea.
- 3) Nut - SL-STD-1411 - 10 ea.
- 4) Gear - SL72566 - 1 ea.
- 5) PLUG - 72198 - 8 ea.
- 6) Ring Set - SL5401-A1 - 4 ea.
- 7) Piston - SL75413 - 4 ea.
- 8) PIN - SL13445 - 4 ea.
- 9) Expansion Plug - SL-STD-1211 - 1 ea.
- 10) Tube - 71577 - 1 ea.
- 11) Nut - SL12186 - 8 ea.
- 12) Bolt - SL <sup>78027</sup> ~~12181~~ - 8 ea.
- 13) Bearing - SL61662 - 8 ea.
- 14) Bearing - SL67447 - 8 ea.
- 15) Spring - 68668 - 1 ea.

- 16) Gasket Set - SL69371-1 - 1 ea.
- 17) Impeller ASSY - SL13775 - 1 ea.
- 18) Impeller - SL60746 - 1 ea.

Engine Assembled  
Engine is O.T.S.M.O.H and I certify  
this Engine is returned to Service.

David L. Sturgeon

A+P527569257

No Further to Follow

[illegible]

| DATE   | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|--------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1943   |                           |                  |                             |                                                                                                                                                                                                                 |
| 6-3-43 | 13.70                     |                  |                             | CHANGED OIL WITH AERO SHELL<br>100 50WT. & CHAMPION DIE FILTER<br>#CH 48110                                                                                                                                     |
|        |                           |                  |                             | Malcolm Woodworth                                                                                                                                                                                               |
|        |                           |                  |                             | Owner                                                                                                                                                                                                           |
| 8-8-43 | 37.7                      |                  |                             | CHANGED OIL WITH AERO SHELL<br>OIL W/ 15W-50 & CHAMPION DIE<br>FILTER CH 48110                                                                                                                                  |
|        |                           |                  |                             | Malcolm Woodworth                                                                                                                                                                                               |
|        |                           |                  |                             |                                                                                                                                                                                                                 |
|        |                           |                  |                             |                                                                                                                                                                                                                 |
|        |                           |                  |                             |                                                                                                                                                                                                                 |
|        |                           |                  |                             |                                                                                                                                                                                                                 |

| DATE<br>19 <u>94</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------|---------------------------|------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10-1-94              | TACH Time                 | 38.6             | TSM.O.H.                    | Total Time 4698.6 Inspected Engine in accordance with Lycoming Service Manual for 100hr inspection.                                                                                                             |
|                      |                           |                  |                             | Check Mag - Mag have Red Coils + Meet Ad. 93-18-03 See Carburetor overhaul                                                                                                                                      |
|                      |                           |                  |                             | Checked Compression #1 78/80 #2 78/80 #3 78/80 #4 78/80                                                                                                                                                         |
|                      |                           |                  |                             | All Ad thru 18-94 Check + OK!!                                                                                                                                                                                  |
|                      |                           |                  |                             | on 10/1/94 HOURS 4698.6                                                                                                                                                                                         |
|                      |                           |                  |                             | CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN                                                                                                                                                         |
|                      |                           |                  |                             | ACCORDANCE WITH AN ANNUAL <del>100 HOUR</del> INSPECTION AND WAS                                                                                                                                                |
|                      |                           |                  |                             | DETERMINED TO BE IN AIRWORTHY CONDITION                                                                                                                                                                         |
|                      |                           |                  |                             | SIGNED <u>Daniel L. Stenger</u> A+ 527569257 A.I.                                                                                                                                                               |

| DATE     | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE                      | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFICS) |
|----------|---------------------------|------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11-29-95 | 75.4 hrs                  |                  | 4841.7                                           | 1) Compression checks 175/80 2) 79/80 3) 78/80 4) 77/80                                                                                                                           |
|          | S.M.O.H.                  |                  | Total 2) Spark-plug serviced. 3) Oil 801 per mup |                                                                                                                                                                                   |
|          |                           | Time.            |                                                  | 4) add 6 Qs. of Aero Shell 15 W 50 S.I.                                                                                                                                           |
|          |                           |                  |                                                  | check. 5) advised owner to replace                                                                                                                                                |
|          |                           |                  |                                                  | & fuel lines. 6) Engine Run & check for                                                                                                                                           |
|          |                           |                  |                                                  | oil & fuel leaks. 7) AD 92-12-05 P.                                                                                                                                               |
|          |                           |                  |                                                  | N/A they use Superior part per Record                                                                                                                                             |
|          |                           |                  |                                                  | 8) AD 93-10-12 Cylinder valve Rebuilt N/A                                                                                                                                         |
|          |                           |                  |                                                  | 9) AD 95-07-01 Connecting Rod Bolt N/A                                                                                                                                            |
|          |                           |                  |                                                  | SL 78024 10) Engine Run & check for leaks                                                                                                                                         |
|          |                           |                  |                                                  |                                                                                                |

| DATE<br>19__                                                                                                                                                                                                               | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT                 | TOTAL<br>TIME IN<br>SERVICE                       | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS<br>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF<br>MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>ICERTIFY THAT THIS <u>Englund</u> HAS<br/>           BEEN INSPECTED IN ACCORDANCE<br/>           WITH A <u>Amara</u> INSPECTION AND<br/>           HAS BEEN DETERMINED TO BE IN<br/>           AIRWORTHY CONDITION.</p> |                           |                                  |                                                   | <p>I certify that this aircraft has been inspected on<br/> <u>Amara</u><br/>           in accordance with a(n) <u>Amara</u><br/>           inspection and was found to be airworthy.</p>                        |
| DATE <u>11-29-95</u>                                                                                                                                                                                                       | TOTAL TIME <u>4841.7</u>  | SIGNATURE: <u>[Signature]</u>    | TOTAL TIME AIRCRAFT TIME IN SERVICE <u>4841.7</u> |                                                                                                                                                                                                                 |
| TACH TIME <u>75</u>                                                                                                                                                                                                        | HAS <u>S.M.O.H.</u>       | REPAIR STATION # <u>2RGR378L</u> |                                                   |                                                                                                                                                                                                                 |