

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

**ENGINE  
MAINTENANCE  
RECORDS**

| 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   |

|  |                 |   |              |
|--|-----------------|---|--------------|
| 1. Approving Civil Aviation Authority (Country):<br>FAA/United States  |                 | 2. Form Tracking Number:<br>Invoice # 11372 |              |
| 3. Organization Name and Address:<br>Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226 Certificate No. E52R316Y |                 |   |              |
| 4. Item:   | 5. Description: | 6. Part Number:                             | 7. Quantity: |
| 1  | Lycoming Engine | O-320-E2D                                   | 1            |
| 8. Serial Number:  |                 | 9. Status/Work:                             |              |
| L-45081-27A  |                 | Overhauled                                  |              |

12. Remarks:  
THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER FAA APPROVED DATA (SEP-103) AND/OR OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED.

PARTS AND ACCESSORIES REPLACED:  
4 New Superior Millenium Cylinders  
2 New Slick Magnets  
1 Overhauled Carburetor  
1 New Set of Spark Plugs  
1 New Harness

Engine T.S.M.O. 0 Hours  
Engine T.T.S.N. Unknown Hours

13. Certify the items identified above were maintained in conformity by:  
☐ Approved design data and use in a condition for safe operation.  
☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service  
Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature: *Douglas P. Kleeman*  
14c. Approved Certificate No.: E52R316Y  
14d. Name (Typed or Printed): Douglas P. Kleeman, Inspector  
14e. Date (dd/mm/yyyy): 06/Apr/2022

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that higher airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14) NNN 0052-00-012-9065

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 |
|------|-----------------------|---------------------------|------------------------------|--|
|------|-----------------------|---------------------------|------------------------------|--|

## Logbook Entry

Date: May 3, 2022  
Make: Lycoming  
Model: O-320-E2D  
S/N: L-45081-27A

Reg: N13887  
Tach: 6394.2  
TTSMOH: "0"  
TT ENG: Unknown

- Removed engine model O-320-E2D serial number L-44648-27A from this airframe and installed an "Overhauled" O-320-E2D serial number L-45081-27A (as modified by STC SE3692SW-D) engine rated for 160 H.P. take off and 150 H.P. METO in accordance with the Cessna Service Manual using the following components:
- Engine mount isolators "New" Lord part number J9613-49 4 each.
- Oil Cooler "Overhauled" part number 8406R.
- Precision Hose Technology Fuel/Oil hoses part numbers, oil pressure 124001-3CR0184, cooler to engine 111417-6S0230, engine to cooler 111417-6S0280, strainer to carburetor 111417-8D0240.
- Starter "Overhauled" Prestolite part number MZ-4222 serial number L000251.
- Alternator "Overhauled" Ford part number DOFF103000J.
- Carburetor "Overhauled" Marvel-Schebler model MA-4SPA part number 10-5217 serial number MS0E4U13.
- Serviced engine with 8 quarts Aeroshell 100w mineral oil.
- All required airworthiness directives accomplished at engine overhaul. (See overhaul records).
- Performed an engine run up and test with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

## Logbook Entry

Reg: N13887

Make: Lycoming  
Tach Time: 6433.7

Model: O-320-E2D  
TTSMOH: 39.5

Serial Number: ~~L-44648-27A~~  
TT ENG: Unknown

July 5, 2022

- Accomplished a 100 hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **80, 80, 80, 79** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

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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|      |                       |                           |                              | <b>TOTALS</b> brought forward from previous page   |

|  |                 |   |              |
|--|-----------------|---|--------------|
| 1. Approving Civil Aviation Authority (Country):<br>FAA/United States  |                 | 2. Form Tracking Number:<br>Invoice # 11372 |              |
| 3. Organization Name and Address:<br>Signature Engines, Inc., 4760 Airport Road, Cincinnati, Ohio 45226 Certificate No. E52R316Y |                 |   |              |
| 4. Item:   | 5. Description: | 6. Part Number:                             | 7. Quantity: |
| 1  | Lycoming Engine | O-320-E2D                                   | 1            |
| 8. Serial Number:  |                 | 9. Status/Work:                             |              |
| L-45081-27A  |                 | Overhauled                                  |              |

12. Remarks:  
THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER FAA APPROVED DATA (SEP-103) AND/OR OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED.

PARTS AND ACCESSORIES REPLACED:  
4 New Superior Millenium Cylinders Engine T.S.M.O. 0 Hours  
2 New Slick Magnets Engine T.T.S.N. Unknown Hours  
3 Overhauled Carburetor  
1 New Set of Spark Plugs  
1 New Harness

13. Certify the items identified above were maintained in conformity by:  
☐ Approved design data and use in a condition for safe operation.  
☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service  
Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature: *Douglas P. Kleeman*  
14c. Approved Certificate No.: E52R316Y  
14d. Name (Typed or Printed): Douglas P. Kleeman, Inspector  
14e. Date (dd/mm/yyyy): 06/Apr/2022

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that higher airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (02-14) NNN 0052-00-012-9065

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 |
|------|-----------------------|---------------------------|------------------------------|--|
|------|-----------------------|---------------------------|------------------------------|--|

## Logbook Entry

Date: May 3, 2022  
Make: Lycoming  
Model: O-320-E2D  
S/N: L-45081-27A

Reg: N13887  
Tach: 6394.2  
TTSMOH: "0"  
TT ENG: Unknown

- Removed engine model O-320-E2D serial number L-44648-27A from this airframe and installed an "Overhauled" O-320-E2D serial number L-45081-27A (as modified by STC SE3692SW-D) engine rated for 160 H.P. take off and 150 H.P. METO in accordance with the Cessna Service Manual using the following components:
- Engine mount isolators "New" Lord part number J9613-49 4 each.
- Oil Cooler "Overhauled" part number 8406R.
- Precision Hose Technology Fuel/Oil hoses part numbers, oil pressure 124001-3CR0184, cooler to engine 111417-6S0230, engine to cooler 111417-6S0280, strainer to carburetor 111417-8D0240.
- Starter "Overhauled" Prestolite part number MZ-4222 serial number L000251.
- Alternator "Overhauled" Ford part number DOFF103000J.
- Carburetor "Overhauled" Marvel-Schebler model MA-4SPA part number 10-5217 serial number MS0E4U13.
- Serviced engine with 8 quarts Aeroshell 100w mineral oil.
- All required airworthiness directives accomplished at engine overhaul. (See overhaul records).
- Performed an engine run up and test with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

## Logbook Entry

Reg: N13887

Make: Lycoming  
Tach Time: 6433.7

Model: O-320-E2D  
TTSMOH: 39.5

Serial Number: ~~L-44648-27A~~  
TT ENG: Unknown

July 5, 2022

- Accomplished a 100 hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **80, 80, 80, 79** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

TOTALS-Carry forward to next page



## Logbook Entry

July 5, 2022

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~44648-27A~~ L-45081-27A  
Tach Time: 6439.4 TTSMOH: 45.2 TT ENG: Unknown

IK

- Due to reported engine RPM loss accomplished the following:
- Replaced all spark plugs with "New" Champion REM38E spark plugs.
- Replaced left magneto with Slick part number/model 4371 serial number 14040071 in accordance with the Cessna Service Manual.
- Replaced right magneto with Slick part number/model 4370 serial number 06021641 in accordance with the Cessna Service Manual.
- Timed both magnetos in accordance with the Cessna Service Manual.
- Accomplished an engine ground run and tested magnetos with no discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann

Reg: N13887 Date: 08/19/2022 Tach: 6492.7  
Make: Lycoming TSMOH: 98.5  
Model: O-320-E2D TTENG: Unknown  
S/N: ~~44648-27A~~ L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469

## Logbook Entry

September 1, 2022

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~44648-27A~~ L-45081-27A  
Tach Time: 6494.2 TTSMOH: 100.0 TT ENG: Unknown

- Accomplished an annual inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: 79, 77, 80, 75 respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Replaced oil return hoses with part number STD-2180.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

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

David Birgmann A/P 3958469 I/A

D. Birgmann

| 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  |                       |                           |                              |  |
| <p>Reg: N13887<br/>Date: 09/20/2022 Tach: 6546.3<br/>Make: Lycoming TSMOH: 152.1<br/>Model: O-320-E2D TTENG: Unknown<br/>S/N: <del>44648-27A</del> L-45081-27A</p> <p>Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.</p> <p>David Birgmann A/P 3958469</p>  |                       |                           |                              |  |
| <p>Logbook Entry</p> <p>Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: <del>44648-27A</del> L-45081-27A<br/>Tach Time: 6586.9 TTSMOH: 192.7 TT ENG: Unknown</p> <p>Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.</p> <ul style="list-style-type: none"> <li>Performed a compression check: 78, 80, 80, 80 respectively.</li> <li>Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.</li> <li>Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.</li> <li>Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.</li> <li>Cleaned and gapped all spark plugs.</li> <li>Tightened all induction tube hose clamps, tightened all exhaust nuts.</li> <li>Adjusted fuel air mixture as required.</li> <li>Accomplished an engine run with no leaks or any other discrepancies noted.</li> </ul> <p>See AD compliance paper work. See AD compliance listing.</p> <p>I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.</p> <p>David Birgmann A/P 3958469 I/A</p> <p>D. Birgmann</p> |                       |                           |                              |  |
| <p>Reg: N13887<br/>Date: 11/07/2022 Tach: 6638.4<br/>Make: Lycoming TSMOH: 244.2<br/>Model: O-320-E2D TTENG: Unknown<br/>S/N: <del>44648-27A</del> L-45081-27A</p> <p>Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.</p> <p>David Birgmann A/P 3958469</p>  |                       |                           |                              |  |
| SUB-TOTALS on page   |                       |                           |                              |  |
| TOTALS-Carry forward to next page  |                       |                           |                              |  |



## Logbook Entry

July 5, 2022

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~44648-27A~~ L-45081-27A  
Tach Time: 6439.4 TTSMOH: 45.2 TT ENG: Unknown

IK

- Due to reported engine RPM loss accomplished the following:
- Replaced all spark plugs with "New" Champion REM38E spark plugs.
- Replaced left magneto with Slick part number/model 4371 serial number 14040071 in accordance with the Cessna Service Manual.
- Replaced right magneto with Slick part number/model 4370 serial number 06021641 in accordance with the Cessna Service Manual.
- Timed both magnetos in accordance with the Cessna Service Manual.
- Accomplished an engine ground run and tested magnetos with no discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann

Reg: N13887 Date: 08/19/2022 Tach: 6492.7  
Make: Lycoming TSMOH: 98.5  
Model: O-320-E2D TTENG: Unknown  
S/N: ~~44648-27A~~ L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469

## Logbook Entry

September 1, 2022

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~44648-27A~~ L-45081-27A  
Tach Time: 6494.2 TTSMOH: 100.0 TT ENG: Unknown

- Accomplished an annual inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: 79, 77, 80, 75 respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Replaced oil return hoses with part number STD-2180.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

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

David Birgmann A/P 3958469 I/A

D. Birgmann

| 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  |                       |                           |                              |  |
| <p>Reg: N13887<br/>Date: 09/20/2022 Tach: 6546.3<br/>Make: Lycoming TSMOH: 152.1<br/>Model: O-320-E2D TTENG: Unknown<br/>S/N: <del>44648-27A</del> L-45081-27A</p> <p>Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.</p> <p>David Birgmann A/P 3958469</p>  |                       |                           |                              |  |
| <p>Logbook Entry</p> <p>Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: <del>44648-27A</del> L-45081-27A<br/>Tach Time: 6586.9 TTSMOH: 192.7 TT ENG: Unknown</p> <p>Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.</p> <ul style="list-style-type: none"> <li>Performed a compression check: 78, 80, 80, 80 respectively.</li> <li>Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.</li> <li>Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.</li> <li>Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.</li> <li>Cleaned and gapped all spark plugs.</li> <li>Tightened all induction tube hose clamps, tightened all exhaust nuts.</li> <li>Adjusted fuel air mixture as required.</li> <li>Accomplished an engine run with no leaks or any other discrepancies noted.</li> </ul> <p>See AD compliance paper work. See AD compliance listing.</p> <p>I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.</p> <p>David Birgmann A/P 3958469 I/A</p> <p>D. Birgmann</p> |                       |                           |                              |  |
| <p>Reg: N13887<br/>Date: 11/07/2022 Tach: 6638.4<br/>Make: Lycoming TSMOH: 244.2<br/>Model: O-320-E2D TTENG: Unknown<br/>S/N: <del>44648-27A</del> L-45081-27A</p> <p>Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.</p> <p>David Birgmann A/P 3958469</p>  |                       |                           |                              |  |
| SUB-TOTALS on page   |                       |                           |                              |  |
| TOTALS-Carry forward to next page  |                       |                           |                              |  |



## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~L-44648-27A~~ **L-45081-27A**  
Tach Time: 6674.4 TTSMOH: 280.2 TT ENG: Unknown

December 4, 2022

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **76, 74, 80, 76** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

Reg: N13887  
Date: 01/16/2022 Tach: 6722.7  
Make: Lycoming TSMOH: 328.5  
Model: O-320-E2D TTENG: Unknown  
S/N: L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469

*D. Birgmann*

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~L-44648-27A~~ **L-45081-27A**  
Tach Time: 6768.1 TTSMOH: 373.9 TT ENG: Unknown

February 28, 2023

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **76, 80, 78, 78** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

| 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 |
|---|-----------------------|---------------------------|------------------------------|--|
|   |                       |                           |                              | forward from previous page   |
| Reg: N13887   |                       |                           |                              |  |
| Date: 04/19/2023  |                       |                           | Tach: 6822.3                 |  |
| Make: Lycoming  |                       |                           | TSMOH: 428.1                 |  |
| Model: O-320-E2D  |                       |                           | TTENG: Unknown               |  |
| S/N: L-45081-27A  |                       |                           |                              |  |
| Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted. |                       |                           |                              |  |
| David Birgmann A/P 3958469  |                       |                           |                              |  |

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~L-44648-27A~~ **L-45081-27A**  
Tach Time: 6833.7 TTSMOH: 439.5 TT ENG: Unknown

MAY 5, 2023

- Removed and replaced starter with an "Overhauled" Prestolite starter part number MZ-4222
- Serial Number 7H000049 in accordance with the Cessna Service Manual.
- Accomplished and engine start with no other discrepancies noted.

David Birgmann A/P 3958469 I/A

*D. Birgmann*

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: ~~L-44648-27A~~ **L-45081-27A**  
Tach Time: 6862.3 TTSMOH: 468.1 TT ENG: Unknown

May 24, 2023

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist section 2-22.
- Performed a compression check: **75, 75, 78, 75**.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Timed left and right magnetos in accordance with the Cessna Service Manual section 11-19.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

*D. Birgmann*



## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: L-45081-27A  
Tach Time: 6674.4 TTSMOH: 280.2 TT ENG: Unknown

December 4, 2022

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **76, 74, 80, 76** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

D. Birgmann

Reg: N13887  
Date: 01/16/2022 Tach: 6722.7  
Make: Lycoming TSMOH: 328.5  
Model: O-320-E2D TTENG: Unknown  
S/N: L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469

D. Birgmann

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: L-45081-27A  
Tach Time: 6768.1 TTSMOH: 373.9 TT ENG: Unknown

February 28, 2023

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **76, 80, 78, 78** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

D. Birgmann

| 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 |
|---|-----------------------|---------------------------|------------------------------|--|
|   |                       |                           |                              | forward from previous page   |
| Reg: N13887   |                       |                           |                              |  |
| Date: 04/19/2023  |                       |                           | Tach: 6822.3                 |  |
| Make: Lycoming  |                       |                           | TSMOH: 428.1                 |  |
| Model: O-320-E2D  |                       |                           | TTENG: Unknown               |  |
| S/N: L-45081-27A  |                       |                           |                              |  |
| Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Phillips 20w50w oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted. |                       |                           |                              |  |
| David Birgmann A/P 3958469  |                       |                           |                              |  |

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: L-45081-27A  
Tach Time: 6833.7 TTSMOH: 439.5 TT ENG: Unknown

MAY 5, 2023

- Removed and replaced starter with an "Overhauled" Prestolite starter part number MZ-4222
- Serial Number 7H000049 in accordance with the Cessna Service Manual.
- Accomplished and engine start with no other discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann

## Logbook Entry

Reg: N13887 Make: Lycoming Model: O-320-E2D Serial Number: L-45081-27A  
Tach Time: 6862.3 TTSMOH: 468.1 TT ENG: Unknown

May 24, 2023

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist section 2-22.
- Performed a compression check: **75, 75, 78, 75**.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Cleaned and gapped all spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Timed left and right magnetos in accordance with the Cessna Service Manual section 11-19.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See AD compliance paper work. See AD compliance listing.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

D. Birgmann



**TOTALS**-Carry forward to next page



## Logbook Entry

October 2, 2023

L-45081-27A

Reg: N13887

Make: Lycoming

Model: O-320-E2D

Serial Number: ~~L-45081-27A~~

Tach Time: 7043.2

TSMOH: 649.0

TT ENG: Unknown

- Accomplished an annual inspection of this engine in accordance with FAR 43 appendix D in addition to the Cessna Service Manual Inspection checklist.
- Performed a compression check: **79, 77, 80, 75** respectively.
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Replaced all spark plugs with Champion REM38E spark plugs.
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted fuel air mixture as required.
- Accomplished an engine run with no leaks or any other discrepancies noted.

See Airworthiness Directive Compliance records.

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

David Birgmann A/P 3958469 I/A

D. Birgmann

Reg: N13887

Date: 12/22/2023

Make: Lycoming

Model: O-320-E2D

S/ N: L-44648-27A

Tach: 7087.9

TSMOH: 693.7

TTENG: Unknown

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

David Birgmann A/P 3958469

## Logbook Entry

January 4, 2024

Reg: N13887

Make: Lycoming

Model: O-320-E2D

Serial Number: L-45081-27A

Tach Time: 7091.5

TSMOH: 697.3

TT ENG: Unknown

- Replaced left magneto with an "Overhauled" magneto part number 4371 serial number H-X120013 in accordance with the Cessna Service manual section 11, 11-52 through 11-57.
- Accomplished a magneto check in accordance with the Cessna Service Manual section 11, 1-59 with no discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann

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| 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 |
|------|--------------------------------|------------------------------------|---------------------------------------|--|
|------|--------------------------------|------------------------------------|---------------------------------------|--|

## Logbook Entry

March 11, 2024

Reg: N13887    Make: Lycoming    Model: O-320-E2D    Serial Number: L-45081-27A  
 Tach Time: 7135.0    TTSMOH: 740.8    TT ENG: Unknown

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.
- Performed a compression check in accordance with Lycoming Service Instruction No. 1191A: **77, 77, 76, 73.**
- Drained oil and removed oil filter, replaced oil filter with a "Champion CH48110-1 oil filter.
- Inspected oil screen and cut oil filter open and inspected with no discrepancies noted.
- Serviced engine with 7 quart "Aeroshell" 100w oil and one can "Avblend" oil additive.
- Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation).
- Tightened all induction tube hose clamps, tightened all exhaust nuts.
- Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments.
- Performed an engine run with no leaks or any other discrepancies noted.

See Airworthiness Directive Compliance records.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

D. Birgmann

## 7/23/24    Engine Log Entry    N13887

Make: Lycoming    Tach: 7181.9  
 Model: O-320-E2D  
 SN: L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil and one pint Avblend oil additive. Ran engine with no leaks or any other discrepancies noted.

END

Jahn Knight A&amp;P 4425382

## Logbook Entry

August 09, 2024

Reg: N13887    Make: Lycoming    Model: O-320-E2D    Serial Number: L-45081-27A  
 Tach Time: 7184.3    TTSMOH: 790.1    TT ENG: Unknown

- Removed and replaced engine starter with Prestolite Starter part number MZ-4222 serial number H-0060713 in accordance with the Cessna Service Manual D972C3-13-Rand-1750-7/75 section 11 Engine, 11-72 Removal And Installation.
- Accomplished an engine start with no discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann



## Logbook Entry

October 3, 2024

JAK

Reg: N13887

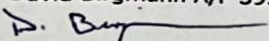
Make: Lycoming  
Tach Time: 7226.2Model: O-320-E2D  
TTSMOH: 832.0Serial Number: L-45081-27A  
TT ENG: Unknown

- Accomplished an annual inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.
- Performed a compression check in accordance with Lycoming Service Instruction No. 1191A: **78, 78, 79, 75.**
- Drained oil and replaced oil filter with a "Champion" CH48110-1 oil filter in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Cut oil filter open and inspected with no discrepancies noted, inspected oil screen with no discrepancies noted, in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Replaced induction air filter with "Brackett" part number **BA-6108.**
- Cleaned, gapped, and rotated spark plugs in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-60 Spark Plugs.
- Replaced all induction tube gaskets with Lycoming part number 71973.
- Tightened all induction hose clamps, tightened all induction tube bolts, tightened all rocker box covers screws.
- Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation).
- Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments
- Performed an engine run required by 14 CFR 43.13, with static RPM, Magnetos, Fuel, Oil pressure, Cylinder, and oil temperature, indicated and operated satisfactory in accordance with the manufacture's recommendations.

See Airworthiness Directive Compliance records.

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

David Birgmann A/P 3958469 I/A



## Logbook Entry

October 10, 2024

Reg: N13887

Make: Lycoming  
Tach Time: 7245.7Model: O-320-E2D  
TTSMOH: 851.5Serial Number: L-45081-27A  
TT ENG: Unknown

- Removed and replaced engine starter with Prestolite Starter part number MZ-4218 serial number 1J000496 in accordance with the Cessna Service Manual D972C3-13-Rand-1750-7/75 section 11 Engine, 11-72 Removal And Installation.
- Accomplished an engine start with no discrepancies noted.

David Birgmann A/P 3958469 I/A

10/23/2024

Engine Log Entry

N13887

Make: Lycoming  
Model: O-320-E2D  
S/N: L-45081-27A

Tach: 7263.2

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil. Ran engine with no leaks or any other discrepancies noted.

Jahn Knight A&amp;P 4425382

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## Logbook Entry

October 22, 2024

Reg: **N13887**    Make: Lycoming    Model: O-320-E2D    Serial Number: L-45081-27A  
 Tach Time: 7262.5    TTSMOH: 868.3    TT ENG: Unknown

- Removed and replaced engine starter with Prestolite Starter part number MZ-4218 serial number A2130109 in accordance with the Cessna Service Manual D972C3-13-Rand-1750-7/75 section 11 Engine, 11-72 Removal And Installation.
- Accomplished an engine start with no discrepancies noted.

David Birgmann A/P 3958469 I/A

D. Birgmann

## Logbook Entry

December 31, 2024

Reg: **N13887**    Make: Lycoming    Model: O-320-E2D    Serial Number: L-45081-27A  
 Tach Time: 7317.0    TTSMOH: 922.8    TT ENG: Unknown

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.
- Performed a compression check in accordance with Lycoming Service Instruction No. 1191A: **78, 79, 79, 79.**
- Drained oil and replaced oil filter with a "Champion" CH48110-1 oil filter in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Cut oil filter open and inspected with no discrepancies noted, inspected oil screen with no discrepancies noted, in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Replaced induction air filter with "Brackett" part number **BA-6108.**
- Cleaned, gapped, and rotated spark plugs in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-60 Spark Plugs.
- Replaced #2 and #3 induction tube gaskets with Lycoming part number 71973.
- Replaced induction tube hoses with part number with Lycoming part number 69603.
- Tightened all induction hose clamps, tightened all induction tube bolts, tightened all rocker box covers screws.
- Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation).
- Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments
- Performed an engine run required by 14 CFR 43.13, with static RPM, Magnetos, Fuel, Oil pressure, Cylinder, and oil temperature, indicated and operated satisfactory in accordance with the manufacture's recommendations.

See Airworthiness Directive Compliance records.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

D. Birgmann

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3/3/2025

Engine Log Entry

N13887

Make: Lycoming  
Model: O-320-E2D  
S/N: L-45081-27A

Tach: 7378.2

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil. Ran engine with no leaks or any other discrepancies.

Jahn Knight A&amp;P 4425382

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

LS brought forward from previous page

## Logbook Entry

March 28, 2025

Reg: N13887

Make: Lycoming  
Tach Time: 7416.4

Model: O-320-E2D  
TTSMOH: 1022.2

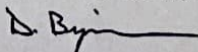
Serial Number: L-45081-27A  
TT ENG: Unknown

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.
- Performed a compression check in accordance with Lycoming Service Instruction No. 1191A: **78, 75, 79, 75.**
- Drained oil and replaced oil filter with a "Champion" CH48110-1 oil filter in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Cut oil filter open and inspected with no discrepancies noted, inspected oil screen with no discrepancies noted, in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Replaced induction air filter with "Brackett" part number **BA-6108.**
- Cleaned, gapped, and rotated spark plugs in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-60 Spark Plugs.
- Tightened all induction hose clamps, tightened all induction tube bolts, tightened all rocker box covers screws.
- Replaced muffler with a serviceable muffler assembly part number 1754001-25 in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-73 Exhaust System, 11-75 Removal And Installation with reference to figure 11-6 Exhaust System.
- Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation).
- Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments
- Performed an engine run required by 14 CFR 43.13, with static RPM, Magnetos, Fuel, Oil pressure, Cylinder, and oil temperature, indicated and operated satisfactory in accordance with the manufacture's recommendations.

See Airworthiness Directive Compliance records.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A



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4/24/2025

Engine Log Entry

N13887

Make: Lycoming

Tach: 7470.7

Model: O-320-E2D

S/N: L-45081-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil. Ran engine with no leaks or any other discrepancies.

Jahn Knight A&amp;P 4425382

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

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## Logbook Entry

June 5, 2025

Reg: N13887

Make: Lycoming

Model: O-320-E2D

Serial Number: L-45081-27A

Tach Time: 7515.1

TSMOH: 1120.9

TT ENG: Unknown

- Accomplished a 100-hour inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.
- Performed a compression check in accordance with Lycoming Service Instruction No. 1191A: **78, 76, 73, 74.**
- Drained oil and replaced oil filter with a "Champion" CH48110-1 oil filter in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Cut oil filter open and inspected with no discrepancies noted, inspected oil screen with no discrepancies noted, in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.
- Replaced induction air filter with "Brackett" part number **BA-6108.**
- Cleaned, gapped, and rotated spark plugs in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-60 Spark Plugs.
- Tightened all induction hose clamps, tightened all induction tube bolts, tightened all rocker box covers screws.
- Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation) and timed as needed.
- Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments
- Performed an engine run required by 14 CFR 43.13, with static RPM, Magnetos, Fuel, Oil pressure, Cylinder, and oil temperature, indicated and operated satisfactory in accordance with the manufacture's recommendations.

See Airworthiness Directive Compliance records.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was found to be in an airworthy condition.

David Birgmann A/P 3958469 I/A

Reg: N13887

Date: 07/15/2025

Tach: 7568.7

Make: Lycoming

TSMOH: 1174.5

Model: O-320-E2D

TTENG: Unknown

S/N: L-44648-27A

Drained oil and removed oil filter. Replaced oil filter with a Champion CH48110-1 oil filter. Serviced engine with 7 quarts Aeroshell 100W oil and one pint "Avblend" oil additive. Ran engine with no leaks or any other discrepancies noted.

page

David Birgmann A/P 3958469

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|               |             |
|---------------|-------------|
| <b>Make:</b>  | Lycoming    |
| <b>Model:</b> | O-320-E2D   |
| <b>Tail:</b>  | N13887      |
| <b>S/N:</b>   | L-45081-27A |

Accomplished an annual inspection of this engine in accordance with FAR 43 appendix D, in addition to the Cessna Service Manual (D972C3-13) section 2, page 2-22 through 2-25 Inspection Check List.

Drained oil and replaced oil filter with a "Champion" CH48110-1 oil filter in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.

Cut oil filter open and inspected with no discrepancies noted, Inspected oil screen with no discrepancies noted, in accordance with the Cessna Service Manual inspection D972C3-13 section 11 Engine, 11-34 Removal and Installation with reference to figure 11-3.

Cleaned, inspected, and gapped all spark plugs in accordance with the Cessna Service Manual (D972C3-13) section 11 Engine, 11-60 Spark Plugs.

Tightened all induction hose clamps, tightened all induction tube bolts, tightened all rocker box covers screws.

Checked magneto to engine timing in accordance with the Cessna Service Manual Section 11 Engine, 11-52 as a guide. (Slick magnetos are installed, timing pin used for internal magneto rotation) and timed as needed.

Adjusted idle speed and mixture as required in accordance with the Cessna Service Manual Section 11, 11-45 Idle Speed and Mixture Adjustments

Performed an engine run required by 14 CFR 43.13, with static RPM, Magnetos, Fuel, Oil pressure, Cylinder, and oil temperature, indicated and operated satisfactory in accordance with the manufacture's recommendations.

**See Airworthiness Directive Compliance Records**

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

D.R.

**Cert:** A/P 3958469 I/A

**Date:** 10/28/2025

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