

Ma  
11E  
EA

N5996B  
Log #1

**LYCOMING**

ENGINE LOG

Closed

SSP-1872-1

1. Approving National Aviation Authority/Country  
2. AUTHORITY  
FAA/UNITED STATES  
FAA FORM

4. ORGANIZATION NAME AND ADDRESS  
Lycoming Engines, 652 Oliver St., W

6. ITEM 7. DESCRIPTION 8. P/N ENPI  
1.1 Aircraft Engine

13. REMARKS ENGINE MODEL: T10-54C

AIRWORTHINESS APPROVAL - ENGINE

Limited life parts must be accompanied by maint

14. Certifies the items identified above were manufak

**LYCOMING**

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6181

## ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING MAKE T10 540-AH1A MODEL L-13830-61E SERIAL

FROM ~~2009~~ June 20 12 TO 20

DETAILING TIME FROM 0 HOURS TO HOURS

SSP-1872-1

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October 1994

**NEW RECIPROCATING ENGINE CERTIFICATE**

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by LYCOMING specifications and Federal Aviation Regulations. No further run-in is required. All Applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of manufacture.

MODEL TIO-540-AH1A SERIAL NO. L-13830-61E  
 DATE 5/3/12 *[Signature]*  
 (AUTHORIZED REPRESENTATIVE)

**LYCOMING**

LYCOMING ENGINES

652 Oliver Street  
 Williamsport, PA 17701 U.S.A.

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Form No. 777-C (Rev. 6/10)

**ENGINE DESCRIPTION**

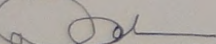
Mfgr.	LYCOMING	Place	Williamsport, PA 17701	Date	
Type		Model		Serial No.	
Rated H.P.		Max. H.P.		Weight (Dry)	
Rated R.P.M.		Max. R.P.M.		Oil Pressure	
Bore		Stroke		Displacement	Cu. In.
Compression Ratio		Supercharger Ratio			
Reduction Gear Ratio				Hub Design	Hub Serial No.
Propeller		Hub Design		Blade Serial No.	Blade Serial No.
Blade Design		Blade Serial No.		Max. Blade H.P.	
Max. Hub H.P.				Diameter	Length
Pitch					
Name					
Address					

Supplemental Log Book Entry  
Annual Engine

Reg: N599DB      Model: TIO-540-AH1A      S/N: L-13830-61E  
Date: 06/01/12      Hobbs: 0.0      TSN: 0.0

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2012-11. Complied with AD11-26-04 Fuel Injection Lines, by Inspection IAW SB342F. Next Due 100.0. AD11-15-10, N/A by New Fuel Servo installed. AD12-03-06, N/A by factory new engine installed. Installed New "Zero Time" Textron Lycoming Engine, TIO-540-AH1A, S/N L13890-61E. Installed 13 quarts of Aeroshell 15W50 Oil in Engine IAW Textron Lycoming Service Instruction No 1014M. Installed new Engine Manifold Drain Line, P/N MILH60001/4. Removed and Reinstalled Left Oil Cooler, P/N 10901A, S/N 770 and Right Oil Cooler, P/N 10901A, S/N 768 for Overhaul by Pacific Oil Coolers, Inc W/O#s Left:87434, Right:87435. Installed new TIT Probe, P/N 481-400. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -

END



David A. Johnson, 34480929 A&P, IA

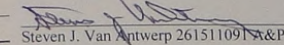
**ENGINE LOG**

Serial No. \_\_\_\_\_

Supplemental Log Book Entry  
Engine

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
Date: 06/07/12      Hobbs: 8.3

Changed Oil and Filter IAW Textron Lycoming Service Instruction # 1427C, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/NCH48110-1, inspected old Oil Filter for foreign matter and none found at this time. Inspected Suction Oil Screen IAW Textron Lycoming Service Instruction # 1427C. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

  
Steven J. Van Antwerp 261511091A&P

brought forward		Certificated mechanic, and the rating and Certificate Number MUST be Shown.
Total to Date		

License Number

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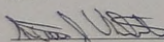
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**Supplemental Log Book Entry  
Engine**

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
 Date: 08/23/12      Hobbs: 35.4

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.  
**END-**

  
 Steven J. Van Antwerp 261574091 A&P

License  
Number

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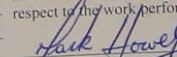
**ENGINE LOG**

Serial No. \_\_\_\_\_

**Supplemental Log Book Entry  
Engine**

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
 Date: 2/27/13      Hobbs: 77.4

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.  
**END-**

  
 Mark A. Howell, 3576906, A&P

License  
Number

Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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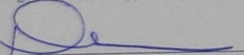
**ENGINE LOG**  
Supplemental Log Book Entry  
Annual Engine

Serial No.

Date

Reg: N599DB      Model: TIO-540-AH1A      S/N: L-13830-61E  
Date: 6/19/13      Hobbs: 101.8      TSN: 101.8

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2013-12. Complied with **AD11-26-04** Fuel Injection Lines, by Inspection IAW SB342F. Next Due **201.8**. **AD12-19-01**, Crankshaft Retirement, N/A by Engine S/N and Crankshaft. **AD12-24-09**, Turbine Wheel Head and Shaft Weld Joint, N/A by Engine Model Number. Performed Compression test, results as follows: 1>79/80, 2>78/80, 3>79/80, 4>79/80, 5>79/80, 6>79/80. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W15 Oil. Checked Oil Suction Screen. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**

  
David A. Johnson, 3638866 A&P, IA

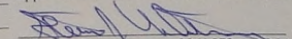
**ENGINE LOG**  
Supplemental Log Book Entry  
Engine

Serial No.

Date

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
Date: 10/1/13      Hobbs: 124.6

Adjusted and Sealed Engine Baffles. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**

  
Steven J. Van Antwerp, 3361572 A&P, IA

License Number

Brought Forward  
Total to Date

the engine must be shown to the inspecting Certified Mechanic, and his Rating and Certificate Number MUST be shown.

Supplemental Log Book Entry  
Engine

License  
Number

Date

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
Date: 3/10/14      Hobbs: 156.9

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

*Wilfredo Nieto*  
Wilfredo Nieto, 3676562, A&P

Page Total
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Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

Supplemental Log Book Entry  
Engine

License  
Number

Date

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
Date: 7/22/14      Hobbs: 193.3

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

*Mark A. Howch*  
Mark A. Howch, 3575906, A&P

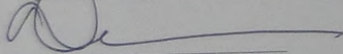
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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

Supplemental Log Book Entry  
Annual Engine

Reg: N599DB                      Model: TIO-540-AH1A                      S/N: L-13830-61E  
Date: 8/26/14                      Hobbs: 201.4                                      TSN: 201.4

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2014-17. Complied with **AD11-26-04**, Fuel Injection Lines, by Inspection IAW SB342G. Next Due **301.4 AD12-19-01**, Crankshaft Retirement, N/A by Engine S/N and Crankshaft. **AD12-24-09**, Turbine Wheel Head and Shaft Weld Joint, N/A by Engine Model Number. **AD13-21-02**, Turbine Wheel Head and Shaft Welded Joint, N/A by Turbocharger Part Number. Performed Compression test, results as follows: 1>78/80, 2>78/80, 3>79/80, 4>78/80, 5>78/80, 6>7/80. Lubricated Turbocharger Wastegate with Mouse Milk. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**

  
David A. Johnson, 3638866 A&P, IA

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	Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

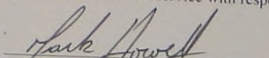
ENGINE LOG

Serial No. \_\_\_\_\_

Supplemental Log Book Entry  
Engine

Reg: N599DB                      Model: TSIO-540-AH1A                      S/N: L-13830-61E  
Date: 2/4/15                      Hobbs: 226.0

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**

  
Mark A. Howell, 3575906, A&P

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	Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.



### ENGINE LOG


Serial No. \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_ Signature \_\_\_\_\_ License No. \_\_\_\_\_

#### Supplemental Log Book Entry - Annual Engine

Reg: N599DB      Model: TIO-540-AH1A      S/N: L-13830-61E  
 Date: 9/2/15      Hobbs: 255.7      TSN: 255.7

Performed Annual Inspection in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2015-17. Complied with AD11-26-04, Fuel Injection Lines, by Inspection IAW SB342G. Next Due 355.7 AD15-02-07, Propeller Governor Idler Shaft Set Screw, N/A by Engine Model. AD15-10-06, Engine Exhaust Pipes and Turbocharger Mounting, N/A by Engine Model. Performed Compression test, results as follows: 1->78/80, 2->78/80, 3->78/80, 4->78/80, 5->78/80, 6->78/80. Removed, Cleaned, Inspected and Reinstalled Oil Suction Screen with new Crush Gasket, P/N MS35769-21. Removed and Replaced #1, #3 and #6 Silicone Rocker Cover Gaskets with new, P/N 08-01316 and torqued to manufactures specifications. Soaked/Lubricated Engine Turbocharger with B12 Chemtool. Removed and Replaced Turbocharger Oil Drain Adapter Gasket with new, P/N LW18038 and Turbocharger Oil Drain Gasket with new, P/N 77813. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. AD-

  
 Timothy E. Armesy, 316503774, A&P

### ENGINE LOG

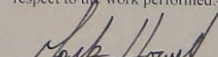
Serial No. \_\_\_\_\_

\_\_\_\_\_ License Number \_\_\_\_\_

#### Supplemental Log Book Entry Engine

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
 Date: 3/3/16      Hobbs: 280.1

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. -END-

  
 Mark A. Howel, 3575906, A&P

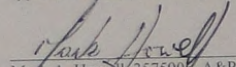
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**ENGINE LOG**  
Supplemental Log Book Entry  
Engine

Date

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
Date: 6/10/16      Hobbs: 315.9

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

  
Mark A. Howdy, 3575906, A&P

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Total to Date

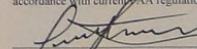
All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number MUST be Shown.

**ENGINE LOG**  
Supplemental Log Book Entry - Annual Engine

License  
Number

Reg: N599DB      Model: TIO-540-AH1A      S/N: L-13830-61E  
Date: 8/5/16      Hobbs: 326.1      TSN: 326.1

Performed Annual Inspection in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2016-16. Complied with AD11-26-84, Fuel Injection Lines, by Inspection IAW SB342G Next Due 426.1, 1950 S TT. Performed Compression test, results as follows: 1-78/80, 2-78/80, 3-75/80, 4-77/80, 5-72/80, 6-75/80. Removed, Cleaned, Inspected and Reinstalled Oil Suction Screen with new Crush Gasket, P/N MS35769-21. Removed and Replace #1 Cylinder Lower Spark Plug with new, P/N RHB36S. Removed and disassembled Left and Right Magnetos. Reset Left Magneto Internal Timing. Removed and Replaced Right Magneto Points with new, P/N M081 and reset Internal Timing IAW M.M. Reassembled and Reinstalled Left and Right Magnetos with new Magneto Gaskets, P/N LW12681 and Retimed to Engine. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

  
Timothy E. Ardesy, 328503774, A&P

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Total to Date

All Repair Data Must Bear the Endorsement of a  
Certificated Mechanic, and his Rating and  
Certificate Number MUST be Shown.



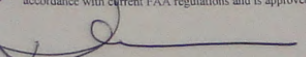
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 9. Serial Number  
 10. Status/Work  
 Overhauled  
 11. Status/Work  
 Overhauled  
 12. Work Order/Continuation  
 Number  
 36554

2011-FA-001070  
 WITNESS APPROVAL TAG

**ENGINE LOG**  
 Supplemental Log Book Entry - Annual Engine

Reg: N599DB Model: TIO-540-AH1A S/N: L-13830-61E  
 Date: 3/29/17 Hobbs: 367.8 TSN: 367.8

Performed Annual Inspection in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2017-06. Complied with AD11-26-04, Fuel Injection Lines, by Inspection IAW SB342G Next Due 467.8 Hobbs/1992.2 TT. Performed Compression test, results as follows: 1->79/80, 2->78/80, 3->78/80, 4->79/80, 5->78/80, 6->79/80. Removed and Reinstalled Engine, M/N TIO540-AH1A, S/N L1380-61E for Propeller Strike Inspection by Certified Engines Unlimited, W/O# 48422-000. Removed and Reinstalled Oil Cooler, P/N 10901A, S/N 768 W/O# 118655, and S/N 770 W/O# 118656, for Overhaul by Pacific Oil Cooler Service, Inc using new Oil Cooler Fitting O-Rings, P/N MS28778-8. Installed 13 quarts of Aeroshell 15W50 Oil. Removed and Replaced Exhaust Flange Gaskets with new, P/N 77611. Removed Turbocharger, P/N 46C19836, S/N H4PCL00046 and Replaced with Overhauled Exchange Turbocharger, P/N 46C19836, S/N FILL00184. (Approved Turbo Components-FL Inc W/O# 36554.) Removed and Replaced V Band Coupling Gasket with new, P/N 75845. Removed and Replaced Turbocharger Gasket with new, P/N 74944. Removed and Replaced Turbocharger Coupling Gasket with new, P/N 78084. Performed engine ground run and no oil or fuel leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

  
 David A. Johnson, 3638866, A&P IA

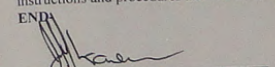
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All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

**Supplemental Log Book Entry**  
 Engine

Reg: N599DB Model: TSIO-540-AH1A S/N: L-13830-61E  
 Date: 4/4/17 Hobbs: 371.8

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and with nothing unusual found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. -END-

  
 Jeffrey Kamerer 3264637, A&P

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All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

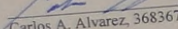


**ENGINE LOG**  
Supplemental Log Book Entry  
Engine

Reg: N599DB  
Date: 7/11/17

Model: TSIO-540-AH1A S/N: L-13830-61E  
Hobbs: 422.0

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

  
Carlos A. Alvarez, 3683673, A&P

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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

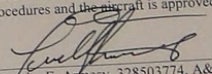
Supplemental Log Book Entry  
Engine

Reg: N599DB  
Date: 12/19/17

Model: TSIO-540-AH1A  
Hobbs: 440.6

S/N: L-13830-61E

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

  
Timothy E. Arnesy, 328503774, A&P IA

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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

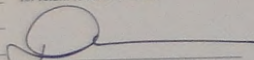
# ENGINE LOG

Serial No. \_\_\_\_\_

## Supplemental Log Book Entry - Annual Engine

Reg: N599DB                      Model: TIO-540-AH1A                      S/N: L-13830-61E  
Date: 4/23/18                      Hobbs: 461.9                                      TSN: 461.9

Performed Annual Inspection in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2018-08. Complied with AD15-19-07, Fuel Injection Lines, by Inspection IAW SB342G Next Due 561.9 Hobbs/ 2086.3 TT. Removed Left Magneto, P/N 6361 S/N 98040750 and Replaced with new Left Magneto, P/N 6361, S/N 18030714. Removed Right Magneto, P/N 6360, S/N 94080466 and Replaced Right Magneto, P/N 6360, S/N 18030629. Performed Compression test, results as follows: 1-75/80, 2-74/80, 3-75/80, 4-72/80, 5-73/80, 6-73/80. Removed and Replaced #2 Cylinder Lower Spark Plug with new, P/N RHB36S. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

  
David A. Johnson, 3638866, A&P IA

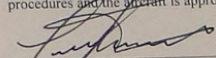
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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

## Supplemental Log Book Entry Engine

Reg: N599DB                      Model: TSIO-540-AH1A                      S/N: L-13830-61E  
Date: 9/28/18                      Hobbs: 499.2

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. -END-

  
Timothy L. Armsy, 328503774, A&P IA


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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

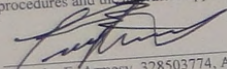
Supplemental Log Book Entry  
Engine

Reg: N599DB  
Date: 9/28/18

Model: TSIO-540-AH1A  
Hobbs: 490.2

S/N: L-13830-61E

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

  
Timothy E. Armesy, 328503774, A&P IA

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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

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11/18

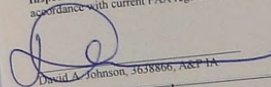
Supplemental Log Book Entry - Annual Engine

Reg: N599DB  
Date: 4/9/19

Model: TIO-540-AH1A  
Hobbs: 514.6

S/N: L-13830-61E  
TSN: 514.6

Performed Annual Inspection in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2019-07. Complied with AD15-19-07, Fuel Injection Lines, by Inspection IAW SB342G. Next Due 614.6 Hobbs/ 2139.0 TT. Left Magneto, P/N 6361 and Right Magneto, P/N 6360 Last replaced at 461.9. Performed Compression test, results as follows: 1>72/80, 2>72/80, 3>72/80, 4>75/80, 5>70/80, 6>70/80. Adjusted Engine Idle Speed and Mixture and Engine maximum RPM indicates normally at this time. Lubricated Turbocharger Wastegate. Removed, Inspected, Cleaned and Reinstalled Oil Suction/Finger Screen using new Crush Gasket, P/N MS35769-21 with no defects noted. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

  
David A. Johnson, 3638866, A&P IA

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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.



Supplemental Log Book Entry  
Engine

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
 Date: 6/28/16      Hobbs: 542.8

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed.-END-

*Mark Howell*  
 Mark A. Howell, 3575906, A&P

Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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Total to Date	

**ENGINE LOG**      Serial No. \_\_\_\_\_

Supplemental Log Book Entry  
Engine

Reg: N599DB      Model: TSIO-540-AH1A      S/N: L-13830-61E  
 Date: 1/23/20      Hobbs: 574.1

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

*Timothy E. Ames*  
 Timothy E. Ames, 328503774, A&P IA

Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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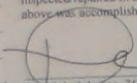
### ENGINE LOG

Serial No. \_\_\_\_\_

Supplemental Log Book Entry - Annual Engine

Reg: N599DB  
Date: 4/9/20Model: TIO-540-AH1A  
Hobbs: 585.9S/N: L-13830-61E  
TSN: 585.9

Performed an Annual Inspection with reference to FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2020-07. Complied with AD15-19-07, Fuel Injection Lines, by Inspection with reference to SB342G Next Due 685.9 Hobbs/ 2210.3 TT. Left Magneto, P/N 6361 and Right Magneto, P/N 6360 Last replaced at 461.9. 500 Hour Magneto Inspection Next Due 961.9 Hobbs. Complied with Slick SB1-19 by removal, inspection of Impulse Coupling Stop Pins and reinstallation of Left Magneto, P/N 6361, S/N 18030714 with no defects noted at this time. Next Due 1085.9 or Magneto replacement. Removed, Pressure Checked for leakage and Reinstalled #2 Cylinder Oil Return Line with no leaks found at this time. Removed and Replaced Spark Plugs with new, P/N URH3365 in all positions. Performed Compression test, results as follows: 1-75/80, 2-71/80, 3-76/80, 4-71/80, 5-76/80, 6-73/80. Removed, Inspected, Cleaned and Reinstalled Oil Suction/Finger Screen using new Crush Gasket, P/N MS35769-21 with no defects noted. Changed Oil and Filter, refilled with 10 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

  
David A. Johnson, 3638866, A&P IAbrought forward  
Total to DateCertificated Mechanic, and his Rating and  
Certificate Number MUST be Shown.

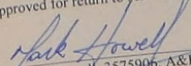
### Service Bulletins, Letters, Instructions & A D Notes

DATE \_\_\_\_\_

Supplemental Log Book Entry  
EngineReg: N599DB  
Date: 9/3/20Model: TSIO-540-AH1A  
Hobbs: 614.6

S/N: L-13830-61E

Removed Engine Cowling. Removed Engine Driven Fuel Pump, P/N 62E23186, S/N H-PSNG23FP, transferred fittings and Installed Overhauled Engine Driven Fuel Pump, P/N RG908014A/M, S/N CF0DLG03, Consolidated Fuel Systems W/O# 10DLG using a new Gasket, P/N MS9137-01. Reinstalled Engine Cowling. Performed Engine Ground Run, Adjusted Engine Idle and Mixture and Engine Operated normally with no fuel or oil leaks found at this time. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed. -END-

  
Mark A. Howell, 3575906, A&P

Supplemental Log Book Entry  
Engine

Reg: N599DB Model: TS10-540-AH1A S/N: L-13830-61E  
Date: 12/17/20 Hobbs: 627.1

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

*Charles Alvarez*  
Charles Alvarez, 3376352, A&P

Service Bulletins, Letters,  
Instructions & A D Notes

DATE \_\_\_\_\_

Supplemental Log Book Entry - Annual Engine

Reg: N599DB Model: T10-540-AH1A S/N: L-13830-61E  
Date: 5/27/21 Hobbs: 658.3 TSN: 658.3

Performed an Annual Inspection with reference to FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2021-11. Complied with ADIS-19-07, Fuel Injection Lines, by inspection with reference to SB342G. Next Due 758.3 Hobbs 2209.7. TT, Left Magneto, P/N 6361 and Right Magneto, P/N 6360 Last replaced at 461.9. 500 Hour Magneto Inspection Next Due 963.9 Hobbs. Left Magneto Slick SBI 119, Inspection of Impulse Coupling Stop Pins, Next Due 1085.9 or Magneto replacement. Performed Compression test, results as follows: 1-973.80, 2-743.80, 3-733.80, 4-733.80, 5-707.80, 6-707.80. Removed, Inspected, Cleaned and Reinstalled Oil Suction/Finger Screen using new Crush Gasket, P/N MS35769-21 with no defects noted. Removed and Replaced #1, #3 and #8 Engine Cylinder Rocker Oil Return Tubes with new, P/N STD-2180. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service.-END-

*Jose V. Cotto*  
Jose V. Cotto, 3118790 A&P, IA

Supplemental Log Book Entry  
Engine

Reg: N599DB  
Date: 9/13/21

Model: TSIO-540-AH1A      S/N: L-13830-61E  
Hobbs: 674.9

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

*J. Cotto*  
Jose J. Cotto, 3118790 A&P, IA

Supplemental Log Book Entry  
Engine

Reg: N599DB  
Date: 11/23/21

Model: TSIO-540-AH1A      S/N: L-13830-61E  
Hobbs: 682.8

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

*J. Cotto*  
Jose J. Cotto, 3118790 A&P, IA

N599DB  
Log # 2

**LYCOMING**

ENGINE LOG

SSP-1872-1

**LYCOMING**

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6191

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING  
MAKE T10-540-AH1A MODEL L-13830-61E SERIAL  
FROM JUNE 20 12 TO \_\_\_\_\_ 20 \_\_\_\_\_  
DETAILING TIME FROM \_\_\_\_\_ HOURS TO \_\_\_\_\_ HOURS

SSP-1872-1

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October 1994

**LYCOMING**

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6181

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING  
MAKE T10-540-AH1A MODEL L-13830-61E SERIAL  
FROM JUNE 20 12 TO \_\_\_\_\_ 20 \_\_\_\_\_  
DETAILING TIME FROM \_\_\_\_\_ HOURS TO \_\_\_\_\_ HOURS

SSP-1872-1

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October 1994

### ENGINE LOG

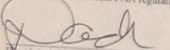
Supplemental Log Book Entry - Annual Engine

Serial No.

Reg: N599DB  
Date: 6/21/22

Model: T10-540-AH1A SN: L-13830-61E  
Hobbs: 707.3 TSN: 707.3

Performed an Annual Inspection with reference to FAR Part 43, Appendix "D" Complied with all applicable AD's thru 2022-12. Complied with AD15-19-07, Fuel Injection Lines, by Inspection with reference to SH3420 Next Due 807.3 Hobbs/ 2309.7 TT. Left Magneto, P/N 6361 and Right Magneto, P/N 6360 last replaced at 461.9 500 Hour Magneto Inspection Next Due 961.9 Hobbs/ 2309.7 TT. Left Magneto, P/N 6361 and Filter Screens using new O-Rings, P/N's 951392 and 951790 Replaced. Magneto replacement. Removed, Cleaned, Inspected and Reinstalled Fuel Injector Servo 4-78/80, 5-75/80, 6-72/80. Removed, Inspected, Cleaned and Reinstalled Oil Suction/Filter Screen using new O-Rings, P/N 535769-21 with no defects noted. Changed Oil and Filter, refilled with 11 quarts of AeroShell 15W-50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA4K119-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/ repaired in accordance with current FAA regulations and is approved for return to service. -END-

  
David A. Johnson, 3638866, A&P IA

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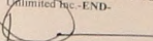
All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

Supplemental Log Book Entry - Engine

Reg: N599DB  
Date: 6/12/22

Model: T10-540-AH1A SN: L-13830-61E  
Hobbs: 712.9 TSN: 712.9

Removed Engine, M/N T10-540-AH1A, S/N L13830-61E for Propeller Strike Inspection by Certified Engines Unlimited Inc. -END-

  
David A. Johnson, 3638866, A&P IA


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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.



**PROPELLER STRIKE~CONTINUED TIME REPAIR~** This engine, model T10-540 AH1A, s/n L-13830-61E, was disassembled due to propeller strike. All internal steel parts were magna-fluxed by TIC Aerospace, CRS # 4S2R821C & all non-ferrous materials were checked for cracks. Crankshaft s/n AV537962537 had center main & flange run-outs checked within limits. No crankshaft AD's applicable per engine model & s/n. Complied with SB475C/533B & AD 2004-10-14C by inspecting crankshaft gear seating area & installing modified gear with new bolt & lockplate. All cyl barrels deglazed & new gapped/rings fitted to the pistons. Installed Camshaft, reground to fact new limits by A/C Specialties, CRS # DD2R764K, along with fact NEW tappets. Installed NEW Champion harness. Magnetos NOT overhauled as engine was not operating at time of prop strike. Engine was reassembled according to guidelines from Lycoming OH Manual 60294-7-14 & given a 1 hour performance run on test stand with all temps, compressions, & pressures within those as prescribed by the factory. Oil filter checked clean. This work complies with SB533B & SL163C. This engine is approved for return to service on Continued Time basis. TSN is 712.9.

4	SL70810	C/SHAFT BLADE BUSHING	6	STD-960	SCREW
1	SL-STD-1211	EXPANSION PLATE	12	INT2381	ROLLER TAPPETS
4	SL18641	MAGNETO CUSHION	12	OM429493	ROLLER SEAL
6	SL14820	RET RING	6	SL3601-SC	RING SET
2	SL173648	C/W ROLLER	1	M5005	NUT
2	SL174768	C/W ROLLER	1	WAVEPLATE	HARNESS COMPLETE
1	MSB144-01	PROP GOVERNOR GASKET	1	15B16647H	OIL FILTER, SPIN-ON
1	MSB2775-137	O-RING	1	AM568102945	CRANKSHAFT GEAR, MODIFIED
12	BS1381	O RING	1	SL-STD-2208	CRANKSHAFT BOLT
6	SL23886	C/SHAFT BEARING	12	7218	PISTON PIN PLUG
6	SL13885A	FRONT C/SHAFT BEARING	3	LN-51-0.94	BOLT
12	SL743056	CONN ROD BEARINGS	1	SL-STD-1410	NUT
1	OS122669	KEY-DIAL & GASKET SET	12	SL12586	ROD BOLT
2	87842	BEARING, MAG DRIVE	12	SL12186	CONN ROD NUT
6	1A-18787	ROSE	2	LM-25-0.63	BOLT
2	02625427	ROSE	1	STD-95	KEY
6	STD-2046	HOSE	6	MS1662-28	FAN
6	STD-2013	O RING	6	SL-STD-2180	DRAIN HOSE
1	56228031	OIL PUMP BAFFLE	6	SL1307A	CRANKSET NUT WASHER
6	AN870-3	WASHER			

Certified Engines Unlimited, Inc.

Authorized Signature

Frank Neves, Jr.

Pembroke Pines, FL 33023 USA  
 FAA CRS# KG4R309M  
 Date: 22 September 2022  
 Invoice / Work Order: 75348/59156

License  
Number

## ENGINE LOG

Serial No. \_\_\_\_\_

Supplemental Log Book Entry, Engine

Reg: N599DB  
 Date: 10/6/22

Model: TSIO-540-AH1A  
 Hobbs: 712.9

S/N: L-13830-61E  
 EngTSN: 712.9

18  
of

Reinstalled Engine M/N T10-540-AH1A, S/N L-13830-61E for Inspection due to "Non Operating" Propeller Strike Inspection by Certified Engines Unlimited, Inc W/O# 59156-000 with reference to AD04-10-14C1 and Lycoming SB's No533B, No SB475C. Added 12 quarts of Phillips 20W50 Mineral Oil. Removed and Reinstalled Oil Coolers P/N 10901A/727680, S/N's Left: 771, W/O # 152183, Right: 775 for Overhaul by Pacific Oil Coolers, Inc. W/O# 152184. Performed engine ground run and no oil or fuel leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

David A. Johnson, 3638866, A&P IA

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All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

### ENGINE LOG

Supplemental Log Book Entry, Engine

Serial No. \_\_\_\_\_

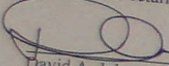
Reg: N599DB  
Date: 10/7/22

Model: TSIO-540-AH1A  
Hobbs: 715.2

S/N: L-13830-61E  
EngTSN: 715.2

License  
Number

Removed Engine Crankshaft Seal, P/N 78443 and Replaced with new Engine Crankshaft Seal, P/N SL15628. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

  
David A. Johnson, 3638866, A&P IA

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Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

### ENGINE LOG

Supplemental Log Book Entry, Engine

Serial No. \_\_\_\_\_

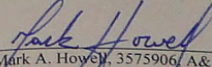
Reg: N599DB  
Date: 10/11/22

Model: TSIO-540-AH1A  
Hobbs: 720.3

S/N: L-13830-61E

License  
Number

Removed and Replaced Engine Oil Filter with new, P/N AA48110-2. Cut and Inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

  
Mark A. Howell, 3575906, A&P

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Total to Date

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

**ENGINE LOG**  
Supplemental Log Book Entry  
Engine

Serial No.

Reg: N599DB  
Date: 5/25/23

Model: TSIO-540-AH1A  
Hobbs: 745.1

S/N: L-13830-61E

se  
per

Changed Oil and Filter, refilled with 11 quarts of Phillips 20W50 Type M Mineral Oil. Installed new Oil Filter P/N AA48110-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service only with respect to the work performed.-END-

*Mark A. Howell*  
Mark A. Howell, 3575906, A&P

	Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.
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Supplemental Log Book Entry - Annual Engine

Reg: N599DB  
Date: 7/5/23

Model: TIO-540-AH1A  
Hobbs: 749.4

S/N: L-13830-61E  
TSN: 749.4

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Performed an Annual Inspection with reference to FAR Part 43, Appendix "D". Checked applicable AD's thru 2023-14. Complied with AD19-07, Fuel Injection Lines, by Inspection with reference to SB342G. Next Due 849.4 Hobbs/ 2400.8 AFTT. AD23-09-09. Failures of Spot-Welded, Multi-Segment V-Band Couplings. Found Not Applicable by "Rivited" Multi-Segmented Turbocharger Flange to Tail Pipe V-Band Coupling Installed. Left Magneto, P/N 6361 and Right Magneto, P/N 6360 Last replaced at 461.9. 500 Hour Magneto Inspection Next Due 961.9 Hobbs. Left Magneto Slick, SB1-19, Inspection of Impulse Coupling Stop Pins. Next Due 1085.9 or Magneto replacement. Performed Compression tests with results as follows: 1->75/80, 2->75/80, 3->76/80, 4->76/80, 5->73/80, 6->75/80. Treated Engine and Engine Hardware with ACF-50 Anti Corrosive. Collected Engine Oil Sample and submitted to Aviation Laboratories for Analysis. Removed Inlet Screen Filter from Engine Fuel Injector Servo. Inspected, Cleaned and Reinstalled Engine Fuel Injector Servo Inlet Screen Filter into Engine Fuel Injector Servo using new O-Rings, P/N 951790 and 951392. Torqued and safetied Engine Fuel Injector Servo Inlet Screen and leak checked. Performed Engine Annual Inspection and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. -END-

*David A. Johnson*  
David A. Johnson, 3638866, A&P/IA

	Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.
	Brought Forward	
	Total to Date	