



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N114DP

Engine Manufacturer Lycorning

Model TIO - 540 - A91A

Serial No. L-10361-61A

Date installed on aircraft 11/09/99

Time Between Overhauls (TBO) 2,000 Hours

Aircraft is single engine



PUBLICATIONS INC.

P.O. BOX 6025/FREEHOLD, N.J. 07728

(908) 462-5130

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

NEW RECIPROCATING ENGINE CERTIFICATE

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

MODEL TIO-540-AGIA SERIAL NO. L-10361-61A
 DATE 9-30-99 [Signature]
 (AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming652 Oliver Street
Williamsport, PA 17701 U.S.A.

FORM NO. 771-B (Rev. 3/79)

3-2-00	29.8	29.8	CHANGED OIL & OIL FILTER, OIL SAMPLE TAKEN #4137, SERVICED WITH 9 QTS. A/SWB0 4ea CH48110 FILTER RAN-UP LEAK CHECKED NO LEAKS NOTED. Dennis M. Miller A#P21348380 C/W AD. 9B-18-12 BY LYCOMING S/B 529 CRANE / LEAR RDMEC. FUEL PUMP TORQUE CHECK INSPECTION, NO DEFECTS NOTED, NEXT DUE AT 79.8 HOBBS TIME. Dennis M. Miller A#P21348380 3880
6-23-00	37.9	37.9	ALSO AD 2000-11-04 C/W COMMANDER S/B 114-33A V-BAND EXHAUST CLAMP, BY INSTALLATION OF NEW CLAMP / ea NH1009399-10, REMOVED & REINSTALLED FUEL SERVO FOR LEAK TESTING, ADJUSTED R.P.M. & IDLE MIXTURE RAN-UP NO LEAKS NOTED. Dennis M. Miller A#P21348380

SUB-TOTALS this page

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1135.0

July 18, 2023

Drained oil. Replaced oil filter with new filter, P/N AA48110-2. Cut open old filter and inspected. No metal found. Serviced engine with 9 qts 20W50 XC. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS23183.

William Polachek Airframe & Powerplant A&P2848502

wo: PS23245

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1160.0

September 18, 2023

Drained oil. Replaced oil filter with new filter, P/N AA48110-2 (owner supplied). Cut open old filter and inspected. No metal found. Serviced engine with 9 qts 20W50 XC, (owner supplied). Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS23245.

Adam Kaul Airframe & Powerplant A&P3879286

wo: PS23286

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1184.4

October 30, 2023

Drained oil. Replaced oil filter with new filter, P/N AA48110-2 (owner supplied). Cut open old filter and inspected. No metal found. Serviced engine with 9 qts 20W50 XC, (owner supplied). Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS23286.

Adam Kaul Airframe & Powerplant A&P3879286

wo: PS24041

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1212.0

February 08, 2024

Drained oil, took oil sample and sent out for analysis. Replaced oil filter with new filter, P/N AA48110-2 (owner supplied). Cut open old filter and inspected. No metal found. Serviced engine with 9 qts 20W50 XC, (owner supplied). Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24041.

Adam Kaul Airframe & Powerplant A&P3879286



Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd. - Waukesha, WI 53188 - 262-547-1800

N114DP

April 10, 2024

hobbs: 1228.0

- Completed 100-Hour/Annual Inspection IAW FAR 43 appendix D, using Commander 114TC inspection forms as a guide.
- Checked compressions: #174, #2 75, #3 77, #4 75, #5 75, #6 77/80.
- No oil change at this time.
- Inspected and lubed engine controls. Lubed wastegate.
- Accessed and removed #6 intake tube, due to excessive fuel staining coming from flange. Removed turbo support brace for access. Cleaned and inspected tube. Cleaned all mating surfaces. Re-installed intake tube with new gasket, P/N 71973. Reinstalled turbo support brace.
- Removed left and right magnetos for 250-500 hr inspection. Sent left magneto, P/N 6361, S/N 99081374, and right mag, P/N 6360, S/N 99040696, to Poplar Grove for inspection. Re-installed mags after inspection with new gaskets, supplied with mags, and new cap o rings, also supplied with mags. Timed mags to engine. Connected pressurization hoses to mags. Performed run up, leak checked. No leaks noted. Operational checks were good.
- Removed #1 intake tube due to fuel staining around flange. Cleaned and inspected mating surfaces at cylinder flange, reinstalled intake tube with new gasket, P/N LW71973.
- Installed 12 new spark plugs, P/N RH37E. Gapped and tested spark plugs before installation.
- Bore scoped all six cylinders on engine. No defects were found.
- Removed intake tubes, 1, 3, 5 and 6, to access sump tubes for repair. Re-swaged sump tubes due to tubes were loose and leaking. Cleaned mating surfaces and re-installed intake tubes with new gaskets, P/N 71973.
- Repositioned aft clamp for waste gate as required and safetied clamp.
- Removed Turbo support brace. Cleaned off minor corrosion as required. Prepped, primed and painted to prevent further corrosion. Re-installed support brace.
- C/W AD 15-19-07 by inspection of fuel injection lines and clamps. Found 2 clamps that require replacement. Replaced 2 clamps with new clamps, P/N No defects found. Next due 1328.0 Hobbs.
- AD's checked through 2024-06.

I certify this engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24078.

William Polachek Airframe & Powerplant A&P2848502

wo: PS24100

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd. - Waukesha, WI 53188 - 262-547-1800

N114DP

April 25, 2024

hobbs: 1234.2

Drained oil, took oil sample and sent out for analysis. Replaced oil filter with new filter, P/N AA48110-2. Cut open old filter and inspected. No metal found. Serviced engine with 9 qts 20W/50 XC. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24100.

William Polachek Airframe & Powerplant A&P2848502

wo: PS24180

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd. - Waukesha, WI 53188 - 262-547-1800

N114DP

July 11, 2024

hobbs: 1261.1

Drained oil. Replaced oil filter with new filter, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W/50 XC, (owner supplied). Lubricated waste gate with mouse milk. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24180.

William Polachek Airframe & Powerplant A&P2848502

wo: PS24259



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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

DATE

September 06, 2024

N114DP

hobbs: 1285.5

Drained oil, took oil sample and sent out for analysis. Replaced oil filter with new filter, P/N AA48110-2. Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W/50 XC, (owner supplied). Lubricated waste gate with mouse milk. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24259.

William Polachek Airframe & Powerplant A&P2848502 *William Polachek*

wo: PS24313

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP

hobbs: 1316.8

October 28, 2024

Drained oil, took oil sample and sent out for analysis. Replaced oil filter with new filter, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W/50 XC, (owner supplied). Lubricated waste gate with mouse milk. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24313.

Adam Kaul Airframe & Powerplant A&P3879286 *AD K*

wo: PS25039

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP

hobbs: 1342.6

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1342.6

March 13, 2025

1. Completed 100hr/Annual Inspection IAW FAR 43 appendix D, using Commander 114TC inspection forms as a guide.
2. Drained oil. Oil sample was taken by owner. Replaced oil filter with new filter, (owner supplied), P/N AA48110-2. Cut open old filter and inspected. No metal found. Serviced engine with 9qts. Phillips 20W/50 XC, owner supplied. Performed run up, leak check. No leaks noted.
3. Checked compressions: #1 72, #2 75, #3 75, #4 75, #5 75, #6 78/80.
4. Inspected and lubed engine controls. Lubed wastegate.
5. Left magneto at 24 degrees right magneto at 23 degrees. Adjusted magneto to engine timing to 20 degrees as required. Operational check good.
6. C/W AD 15-19-07 by inspection of fuel injection lines and clamps. No defects found. Next due 1442.6 Hobbs.
7. AD's checked through Bi-Weekly 2025-05.

I certify this Engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS25039.

William Polachek Airframe & Powerplant A&P2848502 *William Polachek*

wo: PS25175

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP

hobbs: 1370.3

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1370.3

June 25, 2025

Drained oil, took oil sample and sent out for analysis. Replaced oil filter with new filter, P/N AA48110-2. Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W/50 XC. Lubricated waste gate with mouse milk. Performed run up, leak check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS25175.

Mark Prybyl Airframe & Powerplant A&P3816360 *Mark Prybyl*



Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1395.0

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1395.0

August 27, 2025

1. Drained oil, removed and replaced oil filter with new, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W50 X/C, (owner supplied). Performed run up, leak check. No leaks noted.

2. Lubricated wastegate with mouse milk.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS25232.

William Polachek Airframe & Powerplant A&P2848502 *William Polachek*

wo: PS25309

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1421.5

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1421.5

November 18, 2025

1. Performed owner assisted oil change. Drained oil, removed and replaced oil filter with new, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W50 X/C, (owner supplied). Performed run up, leak check. No leaks noted.
2. Lubricated wastegate with mouse milk.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS25309.

Adam Kaul Airframe & Powerplant A&P3879286 *Adam Kaul*

wo: PS26020

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Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP
hobbs: 1450.4

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1450.4

February 09, 2026

Performed owner assisted oil change. Drained oil, removed and replaced oil filter with new, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W50 X/C, (owner supplied). Performed run up, leak check. No leaks noted.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS26020.

Adam Kaul Airframe & Powerplant A&P3879286 *Adam Kaul*

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TOTALS—Carry forward to next page



Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

DO—
DRAWING WORK

N114DP

hobbs: 1461.8

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1461.8

March 13, 2026

1. Completed 100hr/Annual Inspection IAW FAR 43 appendix D, using Commander 114TC inspection forms as a guide.
2. No oil change at this time.
3. Checked compressions: #1 65, #2 75, #3 75, #4 77, #5 75, #6 73/80.
4. Inspected magnetos and checked mag to engine timing.
5. Inspected and lubed engine controls. Lubed wastegate.
6. Cleaned, inspected gasket, and tested spark plugs. Rotated and re-installed with new gaskets, P/N: M6474.
7. Accessed #4 and #6 intake tubes and removed to access intake tube connectors at engine case. Tightened loose tube connectors using a Lycoming tube expander tool. Cleaned surrounding area of dirt and grime. Cleaned intake tubes, clamps and heat shields. Re-installed #4's & #6 intake tubes with new gaskets, P/N 71973. Re-installed all components removed for access.
8. Researched and checked applicability for AD 2026-04-11, Faulty Lycoming rod end bushings installed at overhaul. AD does not apply due to manufacture date of engine and rod end bushings.
9. C/W AD 15-19-07 by inspection of fuel injection lines and clamps. No defects found. Next due 1571.8.
10. AD's checked through Bi-Weekly 2026-05.

I certify this engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS26041.

William Polachek Airframe & Powerplant A&P2848502

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wo: PS26099



Plane Safe Aircraft Maintenance, Inc. - 503 West Bluemound Rd - Waukesha, WI 53188 - 262-547-1800

N114DP

hobbs: 1474.89

Lycoming, TIO-540-AGIA, S/N: L10361-61A
TTSN: 1474.89

May 08, 2026

Performed owner assisted oil change. Drained oil, and sample taken by owner. removed and replaced oil filter with new, P/N AA48110-2, (owner supplied). Cut open old filter and inspected. No debris found. Serviced engine with 9 qts. Phillips 20W50 X/C, (owner supplied). Performed run up, leak check. No leaks noted.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS26099.

William Polachek Airframe & Powerplant A&P2848502