

Book #3



The Standard
ENGINE LOG

200-000

Engine Record General Information

Manufacturer TIO-540-SIAD Model Lycoming

Serial _____ Type Certificate _____

This engine is currently installed in aircraft: _____

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

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				5159.5 ACT

MAKE LYCOMING **MODEL** TIO-540-S1AD **S/N** L-5683-61A
Total Time 5159.5 **Hours** Time Since Major Overhaul ZERO **Hours**
This engine was disassembled, cleaned, inspected and reassembled with necessary new parts in accordance with a major overhaul as per the manufacturer's current overhaul manual 60294-7 New tolerances and clearances were maintained. A detailed parts list is on file at this agency. The following accessories were overhauled or exchanged. See maintenance releases in this logbook.
Installed six (6) new Lycoming cylinders P/N 05K21108. Reinstalled existing mangeto, 156.2 hours SFOH.
Installed new camshaft kit P/N AEL101. Installed fuel pump P/N RG9080J6A/M, S/N B5528-019, overhauled by Aircraft Systems, Inc.. Reinstalled existing fuel servo, 307.5 hours SMOH. Supplied starter P/N MZ-4222, S/N A144155, overhauled by Poplar Grove Airmotive, Inc.. ---END---

All applicable airworthiness directives and related factory publications have been checked for compliance at this date. See list in this log book. This engine was test run in an FAA approved test cell and meets specifications. The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

Work Order # 8694 **Date** 10/28/2004

Poplar Grove Airmotive, Inc.

Poplar Grove Airport, Poplar Grove, IL

FAA Approved Repair Station #YYBR664L


Signed for Poplar Grove Airmotive, Inc.

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MANUFACTURER Lycoming ENGINE MODEL: TIO-540-S1AD S/N: L-5683-61A WO# 8694

AD #	DESCRIPTION	COMPLIANCE STATUS
75-09-15	fuel flow dividers with P/N "-1"	N/A by engine model
78-23-10	fuel servo	N/A by servo number
79-04-05	fuel servo	N/A by servo number
80-17-10	throttle movement	N/A by engine S/N
83-22-04	fuel injector diaphragm	N/A by injector S/N
91-08-07 C	fuel pump fitting	P/C/W has "R" stamped on fitting
#91-21-01 R1 C	exhaust K band couplings E	N/A Exhaust system not supplied
92-12-05	piston pin P/N LW-14077	N/A by date of purchase of new pins installed
95-07-01	connecting rod bolt P/N 75060	N/A by bolt P/N
95-26-02	improper fuel	N/A by registration #N255G
#97-01-04	Superior cylinders	N/A-Superior cylinders not installed
97-15-11	piston pin	N/A to new pins installed
#02-12-07	to prevent complete loss of engine oil	N/A by P/N of new plate seal installed
#02-19-03	crankshaft failure	N/A by engine S/N
#02-26-01	fuel injector fuel lines	C/W IAW Lycoming SB342, A, B, C,D
#03-14-03	fuel pump	C/W by pump overhaul
#04-05-24	engine power	N/A by bolt part number
#04-10-14	crankshaft gear	C/W IAW Lycoming SB 475C

Next due after propeller strike.

Poplar Grove Airmotive, Inc.

Repair Station YYBR664L

Date: 10/28/2004

SERVICEABLE

(COMPONENTS)

Starter

COMPONENT NAME

Prestolite

MFG. NAME

M2-4222

MODEL or TYPE

A194155

SERIAL NO.

☐ REPAIRED ☒ HAULED ☒ TESTED ☒ INSPECTED

The aircraft component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under:

OWNER: Wami Watutown

WORK ORDER No. 8694-10 DATE 10-13-04

Scott R. Brunner
SIGNED FOR:

POPLAR GROVE AIRMOTIVE, INC.

11619 U. S. ROUTE 76
POPLAR GROVE, IL 61065

FAA Approved Repair Station #YYBR664L

YEAR

DATE

Date: 11/ 9/2004, Aircraft: N255G, Type: PIPER PA32RT-300T, S/N: 32R-7887180, Hobbs: 5473.9, Tach: 5159.5, Total Time: 5159.5, Engine - Type: TIO-540-S1AD, S/N: L-5683-61A, Time: 5159.5, Prop Type: HC-E2YR-1BF, S/N: DK1297B, Time: 5159.5 ETSO: 0.0 PTO: 459.5

Engine Work ID 718

Completed an Annual inspection in accordance with Piper PA32RT-300T inspection form and Service Manual. Reinstalled engine, p/n TSIO-540-S1AD, s/n L-5683-61A, after overhaul by Poplar Gove Airmotive, CRS# YYBR664L, Wo# 8694, dated 10/28/04. Serviced engine with 12 qts. X/C 20W50M Phillips. AD 03-14-03 (8/14/03) Fuel pump inspection no further action required, p/n RG9080J6A/M, s/n B5528-019 installed during engine overhaul. AD 02-26-01(1/31/03) Fuel injection lines completed during engine overhaul, next due 5259.5 ACTT or 11/05. Ground run for ops and leak ck good.

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

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Madison, WI 53704
608-268-5003



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920-261-4567

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Date: 3/ 3/2005, Aircraft: N255G, Type: PIPER PA32RT-300T, S/N: 32R-7887180, Hobbs: 5473.9, Tach: 5217.9, Total Time: 5217.9

Engine Work ID 985

Changed oil and filter(CH48103-1), cut filter, no metal noted, serviced engine with 10 qts Exxon Elite oil (owner supplied). Performed compression test on all cylinders 78/80 or better. Ground run for ops and leak ck good.

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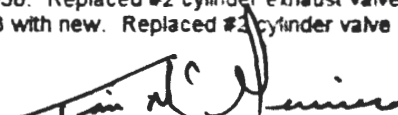
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Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

Date: 8/12/2005, Aircraft: N255G, Type: PIPER PA32RT-300T, S/N: 32R-7887180, Tach: 5313.5, Total Time: 5313.5

Engine Work ID 1192

Reinstalled turbo drain reservoir after repaired and pressure checked. Installed rub strips on reservoir. Installed new turbo outlet gasket p/n LW18038. Replaced #2 cylinder exhaust valve push rod housing tube p/n 72257 and seals p/n LW18661 and sleeve p/n 61503 with new. Replaced #3 cylinder valve cover gasket p/n 71450 with new. Ground run for ops and leak ck good.



A2P 473138392 IA

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YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked, Added
~~Aeroshell~~ Exxon qts. 20-50 11 qts oil. Cleaned & tested sparkplugs. Checked magneto timing
to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 91-21-01R1 Dated 6-96 C/W by inspection. Due 5440.7 Tack.

Ad# 2002-26-01 C/W by inspection per SB#342D. due 5440.7.

Ad# 2005-14-11 N/A. Affected crank not installed.

Replaced Induction air filter element.

Compression #1 72 #2 71 #3 75 #4 74 #5 73 #6 74/80.

No metal present in filter.

Weld repair heat muff shroud.

Replaced support Cable at Exhaust cross over.

Retighten Tach Cable housing connector at engine.

Date 11-15-05 total ENGINE time 5340.7 TACH 5340.7 TSOH 181.2 I certify this ENGINE has been
inspected in accordance with a 100-hour inspection per FAR 43 App. D and was determined to be airworthy.
A&P # 393589930 T.C.'s Air Care, Reedsburg, WI 53959

[illegible]

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Date: 10/25/2006; Aircraft: N255G; Type: PIPER PA32RT-300T; S/N: 32R-7887180; Tach: 5494.10; Total Time: 5494.10

Engine Work ID 2165

Changed oil and filter (CH48103-1), took sample, cut filter, no metal noted, serviced engine with 10 qts 20W50 Exxon Elite. Ground run for ops and leak ck good.

John Podgorski

A&P 349766925

John Podgorski



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3606 Corben Court
Madison, WI 53704
608-268-5003

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Watertown, WI 53094
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked, Added ~~AeroShell~~ ~~Exxon~~ qts. 20.50 oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2002-26-01 C/W by inspection per SB#342D.Due 5619.5 Tack.

Ad# 2005-19-11 N/A.Affected Crankshaft not installed.

Ad# 2006-20-09 N.A Ser# of crankshaft.

Compression #1 78 #2 79 #3 79 #4 79 #5 77 #6 77/80¹.

No metal present in filter or screen.

Ad# 2005-12-06 C/W by inspection per MSB645.Due 6019.5 Tack.Reinstalled with new base gasket & Retimed to engine.

Replaced turbo waste gate return spring with new.

Replaced 4 sparkplugs with new RHB37E.

Date 11-17-06 total **ENGINE** time 5519.5 TACH 5519.5 TSOH 340.0 I certify this **ENGINE** has been inspected in accordance with a 100-hour inspection per FAR 43 App. D and was determined to be airworthy.
A&P #393588930 T.C.'s Air Care, Reedsburg, WI 53959

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Description of Inspections, Tests, Repairs and Alterati

Entries must be endorsed with Name, Rating and Certificate Number
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked, Added
Aeroshell 11 qts 20-50 Elite oil. Cleaned & tested sparkplugs. Checked magneto timing
to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2002-26-01 C/W by inspection per SB#342E.Due 5676.7 Tack.

Ad# 2003-04-19R1 N/A.Affected cylinders not installed.

Repaired crossover pipe heat shroud.Replaced cable clamp bolt.

Replaced Magneto base gasket & Retimed to engine.

No metal present in filter or screen.

Compression #1 76 #2 74 #3 76 #4 75 #5 75 #6 76/80!

Date 12-19-07 total ENGINE time 5576.7 TACH 5576.7 TSOH 397.2 I certify this ENGINE has been
inspected in accordance with a 100-hour inspection per FAR 43 App. D and was determined to be airworthy.
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RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterat Entries must be endorsed with Name, Rating and Certificate Number Technician or Repair Facility. (See back pages for other specific entr
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked, Added Aeroshell 10 _____ qts. Exxon Elite _____ oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2008008-14 N/A.

Ad# 2008-14-07 C/W by inspection per SB#342e. Due 5743.0 tack.

Cleaned; inspected, & reinstalled with new seals.

Replaced 2 RHB37e sparkplugs with new.

Replaced inlet to & exit to heater Scat duct hoses.

Compression #1 76 #2 76 #3 76 #4 72 #5 76 #6 76/80.

No metal present in filter or screen.

Date 12-29-08 total **ENGINE** time 5643.0 TACH 5643.0 TSOH 463.5 I certify this
ENGINE has been inspected in accordance with a 100-hour inspection per FAR 43 App. D and was determined to be airworthy.
A&P # 393588930 T.C.'s Air Care, Reedsburg, WI 53959

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked, Added ~~Aeroshell~~ 11 qts. 20-50 Exxon oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2009-02-03 N/A. Log search.

Ad# 2008-14-07 C/W by inspection per SB#342E. Due 11-2010 or 5794.8.

Ad# 91-21-01R1 C/W by inspection. Due 5794.9 Tack.

Replaced induction air filter element.

No metal present in filter or screen.

Compression #1 77 #2 79 #3 77 #4 78 #5 79 #6 78/80.

Replaced Misc drain hoses in engine compartment.

Date 11-20-09 Total ENGINE time 5694.9 TACH 5694.9 TSOH 515.4 ~~855.4~~ I certify this
ENGINE has been inspected in accordance with a 100-hour inspection per FAR 43 App. D and was determined to be airworthy.
A&P # 393588930 T.C.'s Air Care, Reedsburg, WI 53959

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked.
Added EXXON ELITE 11 qt. oil. Cleaned & tested sparkplugs. Checked magneto
timing to engine & functionally tested engine. Inspected propeller & dressed blades.

AD# 91-21-01R1 C/W by inspection. NEXT DUE@ 5821.2

AD#-2008-14-07 C/W by inspection per S.B. 342E. NEXT DUE@ 5821.2 OR 12-2011

Compression Readings- #1-75 #2-74 #3-76 #4-76 #5-76 #6-76/80

No metal present in old filter.

Date 12-8-2010 total ENGINE time 5721.2 TACH 5721.2 TSOH 541.7 I
certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. Jason E. King A&P # 2812578 IA

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked.
Added 11 20-50 Exxon qt. oil. Cleaned & tested sparkplugs. Checked magneto
timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Compression 01 79 02 78 03 79 04 78 05 74 06 76/80. Ad# 91-21-01R1 C/W by inspection. Due Tack
5846.2 Ad# 2011-26-04 C/W by inspection per SB#342E. Due 5846.2. This Ad Supersedes Ad#
2008-14-07. Replaced oil pressure indicating line to firewall with new. (Aero Aviation). No metal noted
in filter or screen. Tighten all rocker cover screws to torque.

Date 12-9-2011 total ENGINE time 5746.2 TACH 5746.2 TSOH 566.7 I
certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked. Added 11 Exxon 20-50 qt. oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Compression #177 #2 74 #3 76 #4 75 #5 77 #6 76/80. Replaced #3 rocker cover gasket. Retorque all rocker cover screws. No metal noted in filter or screen.

Date 3-14-2013 total ENGINE time 5766.3 TACH 5766.3 TSOH 586.8 I
certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked. Added 11 Exxon Elite qt. oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

No metal noted in filter or screen.Compression #1 77 #2 78 #3 c78 #4 78 #5 78 #6 78/80.Ad# 2011-26-04 C/W by inspection of injector lines per SB#342F.Due 5796.1 Tack.

Date 6-1-2014 total ENGINE time 5796.1 TACH 5796.1 TSOH 616.6 I
 certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
 and was determined to be airworthy. A&P # 393588930 IA
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YEAR DATE

ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked. Added 11 20-50 Exxon qt. oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2015-02-07 Due at overhaul per SB#1343B.Compression #1 79 #2 76 #3 79 #4 76 #5 79 #6 79/80. No metal noted in filter,Ad# 2011-26-04 C/W by inspection per SB#342F.Due 5810.3 Tack.Replaced #3 rocker cover gasket.Replaced Oil Verna therm valve with Pt# SL53E189600 new valve Leak checked ok.

Date 6023-2015636 total ENGINE time 5810.3 TACH 5810.3 TSOH 630.8 I
certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. A&P # 393588930 IA
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked. Added 10 qts Exxon elite 20-50 qt. oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2015-19-07 C/W by inspectio of fuel injector lines & clamps per SB\$342G.Due 5922.4 Tack Compression #1 77 #2 77 #3 77#4 78 #5 76 #6 78/80.No metal noted in filter or screen.Replaced #2 rocker cover gasket with RG71450 per installation instruction.Replaced engine driven vacuum pump with overhauled unit.

Date 8-24-2016 total **ENGINE** time 5822.4 TACH 5822.4 TSOH 642.9 I
certify this **ENGINE** has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked.
Added 10 Exxon-20-50 qt. oil. Cleaned & tested sparkplugs. Checked magneto
timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2015-19-07 C/W by inspection per SB#342G.Due 5925.7 Tack.Ad# 2017-16-11 N/A.Ser# of
engine installed,No metal noted in filter or screen.Compression #1 78 #2 76 #3 78 #4 75 #5 77 #6
76/80,Replaced leaking oil cooler With Pt# 8535311 Ser# 82M2553.See 8130 formWO#011062 for
details.Leak checked ok.

Date 4-16-019 total **ENGINE** time 5825.7 TACH 5825.7 TSOH 646.2 I
certify this **ENGINE** has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA

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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked. Added 10 Exxon-20-50 qt. oil. Cleaned & tested sparkplugs. Checked magneto timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2015-19-07 C/W by inspection per SB#342G.Due 5925.7 Tack.Ad# 2017-16-11 N/A.Ser# of engine installed,No metal noted in filter or screen.Compression #1 78 #2 76 #3 78 #4 75 #5 77 #6 76/80,Replaced leaking oil cooler With Pt# 8535311 Ser# 82M2553.See 8130 formWO#011062 for details.Leak checked ok.

Date 4-16-019 total **ENGINE** time 5825.7 TACH 5825.7 TSOH 646.2 I
certify this **ENGINE** has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA
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ENGINE: Drained oil; filter or screen checked; compression tested; fuel filters & screens checked.
Added 10 Exxon Elite oil. qt. oil. Cleaned & tested sparkplugs. Checked magneto
timing to engine & functionally tested engine. Inspected propeller & dressed blades.

Ad# 2015-19-07 C/W by inspection per SB#342G.Due 5926.9 Tack.No metal noted in filter or
screen,Compression #1 78 #2 74 #3 76 #4 76 #5 78 #6 76/80.

Date 6-15-020 total ENGINE time 5826.9 TACH 5826.9 TSOH 647.4 I
certify this ENGINE has been inspected in accordance with a 100-hour inspection per FAR43 App D
and was determined to be airworthy. [Signature] A&P # 393588930 IA
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