

LYCOMING

New Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been manufactured and ground operation tested as prescribed by Lycoming specification and Federal Aviation Regulations. All applicable Federal Aviation Airworthiness Directives applicable Lycoming Service Publications have been complied with at time of manufacture. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Serial Number L-13899-61A
Engine Model TIO-540-AE2A
Work Order AR538871
Total Time 0 New

Charles Hess 9/17/12
Authorized Representative Date

Form 777C Rev 07/12

Production Certificate #3

652 Oliver Street Williamsport, PA 17701 U.S.A
Lycoming Engines is a division of Avco Corporation



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ENGINE LOG

PIPER AIRCRAFT, INC.

General Offices at
Vero Beach, Florida
U.S.A.

Part No. 230716



Scanned with CamScanner

ENGINE LOG

WHEEL RECORDS

General Officer at
U.S. Coast Guard
A-1

PERMITS

OWNER

NAME ADDRESS		Installed in Aircraft No.	Date
1		N321AG	NOV 01 2012
2			
3			
4			
5			
6			

If this book is found, please return it to the owner.

OWNER

ADDRESS

NAME

NOTICE

Making false entries in this book is a violation of government regulations and is punishable by civil penalty.

THIS ENGINE SERVICED WITH

EXXON ELITE 20W50

OIL AT THE PIPER FACTORY

ENGINE DESCRIPTION

Manufacturer: LYCOMING, WILLIAMSPORT, PA Serial No. L-13899-61A
 Horsepower: 350
 Model: TIO-540-AE2A FAA T. C. No. E14EA

jetsource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	
Total Time	37.1	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- CHANGED OIL AND OIL FILTER WITH 12 QUARTS AERO SHELL 15W-50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR12-05982.

Joey L. Crawford
 Joey L. Crawford
 CRSJ36R336X

Jet Source Inc.
 2056 Palomar Airport Road
 Carlsbad, CA 92011

12/06/2012



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COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES ON ENGINE AND ACCESSORIES

A. D. No. and Date	Item	Method of Compliance (See Log for Details)	Time on Engine	Date of Compliance	Signature and Certificate No.
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JetSource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	
Total Time	46.2	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- COMPLETED 50 HOUR INSPECTION I.A.W. PIPER PA-46-350P MAINTENANCE MANUAL WARRANTABLE 1ST 50 HOUR INSPECTION REPORT.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR12-06001.

Joey L. Crawford
Joey L. Crawford
CRS J36R336X

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

12/11/2012

COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES ON ENGINE AND ACCESSORIES

A. D. No.	Item	Method of Compliance	Time on	Date of	Signature and Certificate No.
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JetSource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	
Total Time	69.9	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- CHANGED OIL AND OIL FILTER WITH 12 QUARTS AERO SHELL 15W-50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.
- COMPLIED WITH LYCOMING SERVICE BULLETIN SB480E INSPECTED OIL FILTER AND SUMP OIL SCREEN NO DISCREPANCIES NOTED.
- OIL SAMPLE TAKEN.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR13-06068.

Joey L. Crawford
Joey L. Crawford
CRS J36R336X

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

02/13/2013

COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES ON ENGINE AND ACCESSORIES

A. D. No.	Method of Compliance	Time on Engine	Date of Compliance	Signature and Certificate No.
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jetsource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	L-13899-61A
Total Time	103.9	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- CHANGED OIL AND OIL FILTER WITH 12 QUARTS AERO SHELL 15W-50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.
- COMPLIED WITH LYCOMING SERVICE BULLETIN SB480E INSPECTED OIL FILTER AND SUMP OIL SCREEN NO DISCREPANCIES NOTED.
- OIL SAMPLE TAKEN.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR13-06219.

Joey L. Crawford
Joey L. Crawford
CRSJ

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

01/19/2013

jetsource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	L-13899-61A
Total Time	158.4	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- COMPLETED AN ANNUAL INSPECTION I.A.W. PIPER PA46-350P MAINTENANCE MANUAL CHAPTER 5-20-00 AND LYCOMING TIO-540-AE2A OPERATORS MANUAL.
- COMPRESSION CHECK #1 78/80, #2 78/80, #3 78/80, #4 77/80, #5 77/80, #6 76/80..
- COMPLIED WITH LYCOMING MANDATORY SERVICE BULLETIN NO. 521 INSPECTION OF EXHAUST SYSTEM SLIP JOINTS. NO DISCREPANCY NOTED AT THIS TIME.
- COMPLIED WITH LYCOMING MANDATORY SERVICE BULLETIN NO. 531C INSPECTION OF TURBOCHARGERS AND TAIL PIPES. NO DISCREPANCY NOTED AT THIS TIME.
- COMPLIED WITH AD 2008-14-07 FUEL INJECTION LINES INSPECTION.
- CHANGED OIL AND OIL FILTER WITH 12 QUARTS AERO SHELL 15W-50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.
- COMPLIED WITH LYCOMING SERVICE BULLETIN SB480E INSPECTED OIL FILTER AND SUMP OIL SCREEN NO DISCREPANCIES NOTED.
- OIL SAMPLE TAKEN.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION FOR RETURN TO SERVICE.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR13-06400.

Joey L. Crawford
Joey L. Crawford
CRSJ36R336X

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

11/01/2013

ENGINE OVERHAUL

REMARKS

TYPE

TIME

jetsource

ENGINE LOGBOOK ENTRY CRS # J36R336X

Manufacturer	LYCOMING	Model	TIO-540
Registration	N321AG	Serial Number	L-13899-61A
Total Time	242.5	Cycles	

The following maintenance/inspection/repairs have been accomplished:

- COMPLETED AN ANNUAL INSPECTION I.A.W. PIPER PA46-350P MAINTENANCE MANUAL CHAPTER 5-20-00 AND LYCOMING TIO-540-AE2A OPERATORS MANUAL.
- COMPRESSION CHECK #1 75/80, #2 78/80, #3 75/80, #4 78/80, #5 75/80, #6 77/80.
- COMPLIED WITH LYCOMING MANDATORY SERVICE BULLETIN NO. 521 INSPECTION OF EXHAUST SYSTEM SLIP JOINTS. NO DISCREPANCY NOTED AT THIS TIME.
- COMPLIED WITH LYCOMING MANDATORY SERVICE BULLETIN NO. 531C INSPECTION OF TURBOCHARGERS AND TAIL PIPES. NO DISCREPANCY NOTED AT THIS TIME.
- COMPLIED WITH AD 2008-14-07 FUEL INJECTION LINES INSPECTION.
- CHANGED OIL AND OIL FILTER WITH 12 QUARTS EXXON ELITE 20W50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.
- COMPLIED WITH LYCOMING SERVICE BULLETIN SB480E INSPECTED OIL FILTER AND SUMP OIL SCREEN NO DISCREPANCIES NOTED.
- OIL SAMPLE TAKEN.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION FOR RETURN TO SERVICE.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Part and details of this report are on file at this facility under work order MR13-06665

Joey L. Crawford
CRSJ36R336X

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

10/27/2014

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N L-13899-61A
REG NO N321AG
WORK ORDER 27606



American Aircraft Maintenance, Inc.

Repair Station No Z5SR421Y
19711-B Campus Drive
Santa Ana, CA 92707
Phone (949) 852-8420

DATE: 7/24/2015
A/C TSN
ENG TT
HOBBS 292.3

Engine Entries

Drained engine oil. Removed filter and cut open for inspection. No defects found. Serviced engine with Exxon Elite 20W50 oil. Installed new filter, torqued and safetied. Washed engine. Ran engine to check for leaks. No leaks observed. Oil sample taken and sent for analysis. Complied with Mandatory Service Bulletin 480E by inspection and cleaning of oil suction screen.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR. IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

DATE: 7/24/2015

SIGNED:

Richard Sanchez
Certified Repair Station No. Z5SR421Y

Work Order: 27606

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I certify that this overhaul was accomplished in accordance with FAA Regulations and Directives using approved material and parts.

Signature

Certificate No.

Address

FAA - PMA

This tag certifies that Sky-Tec Model No. 149-NL/ec
Serial No. FNE-311431 was manufactured new on 06 Aug 2014
by Sky-Tec under the authority of FAA-PMA No. PQ0852SW
Supplement No. 7 in accordance with Sky-Tec's
FAA-Approved Quality System (14CFR Part 21, Subpart K).
This article has been determined to be airworthy.
For installation eligibility see www.skytecair.com/eligibility.htm
Starter Installed on N _____ by _____
(Aircraft) (Mechanic)


Form CC1108-1

SLIP JOINTS. NO DISCREPANCY NOTED.

- COMPLIED WITH LYCOMING MANDATORY SERVICE BULLETIN NO. 531C INSPECTION OF TURBOCHARGERS AND TAIL PIPES. NO DISCREPANCY NOTED AT THIS TIME.
- COMPLIED WITH AD 2008-14-07 FUEL INJECTION LINES INSPECTION.
- CHANGED OIL AND OIL FILTER WITH 12 QUARTS EXXON ELITE 20W50 AND NEW CH48103-1 OIL FILTER RAN ENGINE NO LEAKS DETECTED WORK DONE IAW PIPER PA-46-350P M.M. CHAPTER 12-10-00.
- COMPLIED WITH LYCOMING SERVICE BULLETIN SB480E INSPECTED OIL FILTER AND SUMP OIL SCREEN NO DISCREPANCIES NOTED.
- OIL SAMPLE TAKEN.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION FOR RETURN TO SERVICE.

The aircraft identified above was inspected and/or repaired in accordance with the current manufacturers specifications and current Federal Aviation Administration regulations and is returned to service with respect to the work performed. Pertinent details of this report are on file at this facility under work order: MR13-06665.


Joey L. Crawford
CRS J36R336X

Jet Source Inc.
2056 Palomar Airport Road
Carlsbad, CA 92011

TIME

J36R336X

	TIO-540
Number	L-13899-61A

ed:

NTENANCE MANUAL CHAPTER 5-20-00 AND

30, #6 77/80..

521 INSPECTION OF EXHAUST SYSTEM

531C INSPECTION OF TURBOCHARGERS

10/27/2014

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER: 27739



American Aircraft Maintenance, Inc.
Repair Station No. Z5SR421Y
19711-B Campus Drive
Santa Ana, CA 92707
Phone: (949) 852-8420

DATE: 11/6/2015
A/C TSN: 310.5
ENG TT: 310.5
HOBBS: 310.5

Engine Entries

Complied with an Annual/100 HR inspection in accordance with FAR Part 43, Appendix D, using Piper Aircraft, Inc. Inspection Report p/n 767-011 as a guide. Changed oil and filter, serviced with Exxon Elite 20W50 oil. Filter opened and inspected, no contamination found. Leak check satisfactory. All Airworthiness Directives are in compliance at this time through bi-weekly issue 2015-22. Compressions #1 78/80, #2 79/80, #3 72/80, #4 78/80, #5 78/80, #6 78/80. Oil sample taken and sent for analysis. Complied with Lycoming Service Bulletin No. 480E, oil screen cleaning. Complied with Lycoming SB 521 by inspection of exhaust crossover slip joints, clamps and transitions, no defects noted. Complied with Lycoming Service Bulletin No. 531A. Inspected turbochargers and tail pipes. No indication of foreign object damage to blades. No indications of contact with exhaust deposits. Turbocharger spins freely. Adjusted both magnetos to 20 degrees before top center per engine data plate. Operational and leak check good. Inspected fuel pump. AD2003-14-03 does not apply due to make and model of fuel pump. Hartzell Fuel Pump Part Number 200F-5002 installed. Complied with AD2015-19-07 by inspection of fuel injection lines and clamps, no defects noted.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

DATE: 11/6/2015

SIGNED:

Richard Sanchez
Certified Repair Station No. Z5SR421Y

Work Order: 27739

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The Flight Shop, Inc. 435-723-3469 6/21/2016 N321AG Hobbs 350.8
Engine Log

1. Changed engine oil, serviced with Exxon Elite 20w50; 2. Changed engine oil filter, opened old no contamination found; 3. Ground run engine, satisfactory, no leaks.

281A

Craig Hulke

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386
N321AG Lycoming TIO-540-AE2A S/N: L-13899-61A Total Time: 356.2
14 July 2016 Hobbs: 356.2

Compression test #1) 78/80, 2) 77/80, 3) 78/80, 4) 78/80, 5) 77/80, 6) 78/80. Cut oil filter open and inspected, no contaminants noted. No oil change completed at this time. Added one quart of Exxon Elite 2W50 oil. Ground run up and leak check good.

w/o 36972

Scott L. Utz A&P 442269

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6489-12-2016

HIGH PERFORMANCE AIRCRAFT, INC.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 9/1/2016
A/C TSN: 378.3
ENG TT: 378.3
HOBBS: 378.3

Engine Entries

DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E; CUT OPEN AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND. REPLACED OIL FILTER WITH ONE EA. CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE 20W50 OIL. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6489-12-2016

Signature

DATE: 9/1/2016

SIGNED:

Dan Salzman
Certified Repair Station No. HPFR569X

Work Order: 6489-12-2016

Printed by EBis 3 (datcomedia.com)

Address

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6444-08-2016

HIGH PERFORMANCE AIRCRAFT, INC.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 12/19/2016
A/C TSN: 403.3
ENG TT: 403.3
HOBBS: 403.3

Engine Entries

COMPLETED AN ANNUAL INSPECTION IN ACCORDANCE WITH FAR PART 43, APPENDIX D, USING CURRENT MALIBU MIRAGE PA46-350P MAINTENANCE MANUAL 5-20-00 CHECKLIST AS A GUIDE. ALL AD'S CHECKED THRU THIS DATE, SEE ATTACHED LIST.... COMPLIED WITH AD 2015-19-07, DATED 11/3/2015 (TO PREVENT FAILURE OF THE FUEL INJECTOR FUEL LINES) IAW PARA. (e), NO ABNORMALITIES NOTED AT THIS TIME, REINSPECT DUE EACH 100 HOURS.... COMPLIED WITH LYCOMING SB 521 BY DISASSEMBLING THE CROSSOVER SLIP JOINT ASSEMBLIES AND MEASURING FOR MINIMUM ENGAGEMENT OF .75 INCHES, FOUND SUFFICIENT ENGAGEMENT, REPLACED PIPE CROSS OVER RIGHT P/N 40B19974, GASKET P/N 06B19913, CLAMPS (4EA) P/N LW15592-8E24, AND REASSEMBLED IAW SB 521 SERVICE INSTRUCTIONS.... COMPLIED WITH LYCOMING SB 531C (INSPECTION OF TURBOCHARGERS AND TAILPIPS ON TIO-540-AE2A MODEL ENGINES) INSPECTED PER SB INSTRUCTIONS WITH NO DEFECTS NOTED AT THIS TIME. REINSPECT EACH 250 HOURS IN SERVICE OR ANNUALLY, WHICHEVER OCCURS FIRST.... REPLACED LEAKING INTAKE GASKETS AND O-RINGS AT CYLINDERS NUMBER 1, 2 AND 4, WITH 3 EA. OF P/N 71973 AND P/N 72711.... REPLACED LEFT AND RIGHT MAGNETO GASKETS WITH 2 EA. OF P/N LW12681 AND P/N 62224, AND TIMED MAGNETOS TO ENGINE.... REPLACED WASTE GATE CONTROLLER WITH P/N 481008-0033, S/N ZJN09632, AND ADJUSTED MANIFOLD PRESSURE TO 42 INCHES AT TAKEOFF... PERFORMED LYCOMING 400 HOUR VALVE ROCKER INSPECTION. REMOVED ROCKER COVERS, CHECKED FOR FREEDOM OF VALVE ROCKERS WHEN VALVES ARE CLOSED. NO EVIDENCE OF ABNORMAL WEAR OR BROKEN PARTS IN THE AREA OF THE VALVE TIPS, VALVE KEEPERS, SPRINGS OR SPRING SEATS FOUND AT

DATE 3/17/2017
REG N321AG
MODEL TIO-540-AE2A
SER # L-13899-61A

FALCON EXECUTIVE AVIATION, INC.

4766 E. FALCON DR.

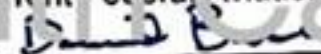
MESA, ARIZONA 85215

FAA APPROVED REPAIR STATION NO. X0FR185J

ENGINE LOG ENTRY

1. Removed Kelly Aerospace Starter PN: ERB-8011 SN: H-M062158 and installed new Sky-Tec Starter MN: 149-NL/ec

S. F IE-3 143, with Starter wire adapter kit PN: E CE-6. Ground rail, operational check good.

3. The work identified above was performed in accordance with current Federal Aviation Regulations and found to be satisfactory for return to service. AUTHORIZED SIGNATURE: 

Pertinent details of work accomplished on this aircraft are on file at this agency under work order SVC-7666.

END

ENGINE MODEL:
ENGINE S/N:
REG. NO: N321AG
WORK ORDER: 1568



Above View Jet Center Inc.
4196 S. Airport Parkway Unit 2A
St. George, UT 84790
Phone: 435-688-8009

DATE: 4/11/2017
A/C TSN:
ENG TT:
TACH: 447.8

Engine Entries

(1) Complied with a 50 hour inspection Per the Manufactures Maintenance Manual. Replaced oil and filter with a Champion CH 48103-1 filter and 12 qts. of Exxon Elite 20W-50 oil. Engine operation checked, no leaks found, ops check normal.

DATE: 4/11/2017

SIGNED:

Justin Hansen, A&P: 3691832

Work Order: 1568

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ENGINE M:
TIO-540-AE
ENGINE S/I
REG. NO. N
WORK OR:
6566-06-20

Engine E
FOUND LE
62224, ANI

The aircraft a
Regulations i
Dated

DATE: 6/8/2

Sign

Address

ENGINE MODEL:
ENGINE S/N:
REG. NO: N321AG
WORK ORDER: 1604



Above View Jet Center Inc.
4196 S. Airport Parkway Unit 2A
St. George, UT 84790
Phone: 435-688-8009

DATE: 9/22/2017
A/C TSN:
ENG TT:
HOBBS: 487.7

Engine Entries

(1) Complied with a 50 hour inspection Per the Manufactures Maintenance Manual. Replaced oil and filter with a Champion CH 48103-1 filter and 12 qts. of Exxon Elite 20W-50 oil. Engine operation checked, no leaks found, ops check normal.

DATE: 9/22/2017

SIGNED:

Justin Hansen, A&P: 3691832

Work Order: 1604

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6444-08-2016



HIGH PERFORMANCE AIRCRAFT, INC.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 12/19/2016
A/C TSN: 403.3
ENG TT: 403.3
HOBBS: 403.3

Engine Entries

COMPLETED AN ANNUAL INSPECTION IN ACCORDANCE WITH FAR PART 43, APPENDIX D, USING CURRENT MALIBU MIRAGE PA46-350P MAINTENANCE MANUAL 5-20-00 CHECKLIST AS A GUIDE. ALL AD'S CHECKED THRU THIS DATE, SEE ATTACHED LIST.... COMPLIED WITH AD 2015-19-07, DATED 11/3/2015 (TO PREVENT FAILURE OF THE FUEL INJECTOR FUEL LINES) IAW PARA. (e), NO ABNORMALITIES NOTED AT THIS TIME, REINSPECT DUE EACH 100 HOURS... COMPLIED WITH LYCOMING SB 521 BY DISASSEMBLING THE CROSSOVER SLIP JOINT ASSEMBLIES AND MEASURING FOR MINIMUM ENGAGEMENT OF .75 INCHES, FOUND SUFFICIENT ENGAGEMENT, REPLACED PIPE CROSS OVER RIGHT P/N 40B19974, GASKET P/N 06B19913, CLAMPS (4EA) P/N LW15592-8E24, AND REASSEMBLED IAW SB 521 SERVICE INSTRUCTIONS.... COMPLIED WITH LYCOMING SB 531C (INSPECTION OF TURBOCHARGERS AND TAILPIPES ON TIO-540-AE2A MODEL ENGINES) INSPECTED PER SB INSTRUCTIONS WITH NO DEFECTS NOTED AT THIS TIME. REINSPECT EACH 250 HOURS IN SERVICE OR ANNUALLY, WHICHEVER OCCURS FIRST.... REPLACED LEAKING INTAKE GASKETS AND O-RINGS AT CYLINDERS NUMBER 1, 2 AND 4, WITH 3 EA. OF P/N 71973 AND P/N 72711... REPLACED LEFT AND RIGHT MAGNETO GASKETS WITH 2 EA. OF P/N LW12681 AND P/N 62224, AND TIMED MAGNETOS TO ENGINE.... REPLACED WASTE GATE CONTROLLER WITH P/N 481008-0033, S/N ZJN09632, AND ADJUSTED MANIFOLD PRESSURE TO 42 INCHES AT TAKEOFF... PERFORMED LYCOMING 400 HOUR VALVE ROCKER INSPECTION. REMOVED ROCKER COVERS, CHECKED FOR FREEDOM OF VALVE ROCKERS WHEN VALVES ARE CLOSED. NO EVIDENCE OF ABNORMAL WEAR OR BROKEN PARTS IN THE AREA OF THE VALVE TIPS, VALVE KEEPERS, SPRINGS, OR SPRING SEATS FOUND AT THIS TIME, REINSTALLED COVERS WITH 6 EA. NEW GASKETS P/N 67193... PERFORMED DIFFERENTIAL COMPRESSION CHECK USING .060 ORIFICE TESTER PER AC 43.13-1B, PARA. 8-14(b): 1) 78/80, 2) 77/80, 3) 78/80, 4) 79/80, 5) 79/80, 6) 78/80. CHECKED MAG TIMING, CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS, CLEANED FUEL INJECTORS, CLEANED FUEL INJECTION SERVO SCREEN... DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E; CUT OPEN AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND. REPLACED OIL FILTER WITH ONE EA. CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE 20W50 OIL. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6444-08-2016
Dated

DATE: 12/19/2016

SIGNED:

Dan Salzman
Certified Repair Station No. HPFR569X

Work Order: 6444-08-2016

Printed by EBis 3 (datcomedia.com)



Scanned with CamScanner

ENGINE MODEL:
ENGINE S/N:
REG. NO: N321AG
WORK ORDER: 1568



Above View Jet Center Inc.

4196 S. Airport Parkway Unit 2A
St. George, UT 84790
Phone: 435-688-8009

DATE: 4/11/2017
A/C TSN:
ENG TT:
TACH: 447.8

Engine Entries

(1) Complied with a 50 hour inspection Per the Manufactures Maintenance Manual. Replaced oil and filter with a Champion CH 48103-1 filter and 12 qts. of Exxon Elite 20W-50 oil. Engine operation checked, no leaks found, ops check normal.

DATE: 4/11/2017

SIGNED:

Work Order: 1568

Justin Hansen, A&P: 3691832

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6566-06-2017



High Performance Aircraft, Inc.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 6/8/2017
A/C TSN: 462.2
ENG TT: 462.2
HOBBS: 462.2

Engine Entries

FOUND LEAK AT LEFT MAGNETO BASE, REPLACED LEFT MAGNETO BASE AND ADAPTER GASKETS WITH 1 EA. OF P/N 62224, AND LW12681, TIMED MAGNETO TO ENGINE, NO LEAKS DETECTED AFTER ENGINE RUN UP

The aircraft and/or component(s) indentified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6566-06-2017
Dated

DATE: 6/8/2017

SIGNED:

Work Order: 6566-06-2017

Dan Salzman
Certified Repair Station No. HPFR569X

Printed by EBis 3 (datcomedia.com)

Sign

Address

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6640-11-2017

High Performance Aircraft, Inc.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 12/7/2017
A/C TSN: 507.8
ENG TT: 507.8
HOBBS: 507.8

Engine Entries

COMPLETED AN ANNUAL INSPECTION IN ACCORDANCE WITH FAR PART 43, APPENDIX D, USING CURRENT MALIBU MIRAGE PA46-350P MAINTENANCE MANUAL 5-20-00 CHECKLIST AS A GUIDE. ALL AD'S CHECKED THRU THIS DATE, SEE ATTACHED LIST.... COMPLIED WITH AD 2015-19-07, DATED 11/3/2015 (TO PREVENT FAILURE OF THE FUEL INJECTOR FUEL LINES) IAW PARA. (e), NO ABNORMALITIES NOTED AT THIS TIME, REINSPECT DUE EACH 100 HOURS... COMPLIED WITH LYCOMING SB 521 BY DISASSEMBLING THE CROSSOVER SLIP JOINT ASSEMBLIES AND MEASURING FOR MINIMUM ENGAGEMENT OF .75 INCHES, FOUND SUFFICIENT ENGAGEMENT, REPLACED HARDWARE AS REQUIRED AND REASSEMBLED IAW SB 521 SERVICE INSTRUCTIONS.... COMPLIED WITH LYCOMING SB 531C (INSPECTION OF TURBOCHARGERS AND TAILPIPS ON TIO-540-AE2A MODEL ENGINES) VISUALLY COMPLIED PER SB INSTRUCTIONS WITH NO DEFECTS NOTED AT THIS TIME. REINSPECT EACH 250 HOURS IN SERVICE OR ANNUALLY, WHICHEVER OCCURS FIRST.... REPLACED RIGHT MAGNETO BREAKER POINTS WITH P/N M3081, REPLACED LEFT MAGNETO BREAKER POINTS WITH 2 EA. P/N M3637, REPLACED BOTH MAGS CARBON BRUSHES WITH 2 EA. P/N K3215, BASE AND ADAPTER GASKETS WITH 2 EA. OF P/N 62224 AND P/N LW 12681, ADJUSTED INTERNAL MAGNETO TIMING ON BOTH MAGNETOS, REINSTALLED AND ADJUSTED TIMING TO ENGINE... REPLACED #1 INTAKE TUBE GASKET WITH P/N 71973, AND SEAL P/N 72711... REPLACED #5 CYLINDER ROCKER COVER GASKET WITH P/N 67193... PERFORMED DIFFERENTIAL COMPRESSION CHECK USING .060 ORIFICE TESTER PER AC 43.13-1B, PARA. 8-14(b): #1, 78/80, #2, 78/80, #3, 78/80, #4, 78/80, #5, 78/80, #6, 78/80. CHECKED MAG TIMING, CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS, CLEANED FUEL INJECTION SERVO SCREEN... DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E; CUT OPEN AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND. REPLACED OIL FILTER WITH ONE EA. CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE 20W50 OIL. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6640-11-2017
Dated

DATE: 12/7/2017

SIGNED:

Dan Salzman

Certified Repair Station No. HPFR569X

Work Order: 6640-11-2017

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6712-04-2018

High Performance Aircraft, Inc.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 3/31/2018
A/C TSN: 547.8
ENG TT: 547.8
HOBBS: 547.8

Engine Entries

DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E; CUT OPEN AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND. REPLACED OIL FILTER WITH ONE EA. CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE 20W50 OIL. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6712-04-2018
Dated

DATE: 3/31/2018

SIGNED:

Dan Salzman

Certified Repair Station No. HPFR569X

Work Order: 6712-04-2018

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
TIO-540-AE2A
ENGINE S/N: L-13899-61A
REG. NO: N321AG
WORK ORDER:
6803-11-2018

High Performance Aircraft, Inc.

Repair Station No. HPFR569X
1850 JOE CROSSON DRIVE
El Cajon, CA 92020
Phone: 858-576-5000

DATE: 12/4/2018
A/C TSN: 678.8
ENG TT: 678.8
HOBBS: 678.8

Engine Entries

COMPLETED AN ANNUAL INSPECTION IN ACCORDANCE WITH FAR PART 43, APPENDIX D, USING CURRENT MALIBU PA-46-350P MAINTENANCE MANUAL 5-20-00 CHECKLIST AND LYCOMING OPERATOR'S MANUAL AS A GUIDE. ALL AD'S CHECKED THRU THIS DATE, SEE ATTACHED LIST.... COMPLIED WITH AD 2015-19-07, DATED 11/3/2015 (TO PREVENT FAILURE OF THE FUEL INJECTOR FUEL LINES) INSPECTED IAW PARA. (e). NO ABNORMALITIES NOTED AT THIS TIME, REINSPECT DUE EACH 100 HOURS... AD 2017-16-11, DATED 08/15/2017 (LYCOMING SB 632 IDENTIFICATION OF CONNECTING RODS WITH NON-CONFORMING SMALL END BUSHINGS) IS N/A BY ENGINE MODEL AND SERIAL NO. AND NO AFFECTED BEARINGS HAVE BEEN INSTALLED... REPLACED 3 SPARK PLUGS WITH NEW, P/N RHB36S... PERFORMED DIFFERENTIAL COMPRESSION CHECK USING .060 ORIFICE TESTER PER AC 43.13-1B, PARA. 8-14(b): 1) 78/80, 2) 78/80, 3) 78/80, 4) 78/80, 5) 78/80, 6) 78/80. CHECKED MAG TIMING, CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS, CLEANED FUEL INJECTION SERVO SCREEN... DRAINED OIL. RETAINED SAMPLE FOR TESTING. COMPLIED WITH LYCOMING SB 480E; CUT OPEN AND INSPECTED OIL FILTER-NO METAL FOUND. INSPECTED AND CLEANED OIL SUMP SCREEN-NO METAL FOUND. REPLACED OIL FILTER WITH ONE EA. CHAMPION P/N CH48103-1. SERVICED ENGINE WITH 12 QUARTS EXXON ELITE 20W50. GROUND RUN PERFORMED. OPERATION IS NORMAL WITH NO LEAKS DETECTED AT THIS TIME.

The aircraft and/or component(s) identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details of this repair are on file at this repair station under Work Order No. 6803-11-2018
Dated

DATE: 12/4/2018

SIGNED: 

Dan Salzman
Certified Repair Station No. HPFR569X

Work Order: 6803-11-2018

Printed by EBis 3 (datcomedia.com)

CS

Carry forward

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#

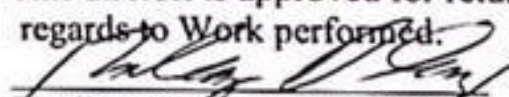
Date 1/4/2019

ACTT:

Tach: 697.5

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.


Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN# 4636563

Date 12/18/2018

ACTT:

HRM: 688.0

1. Replaced 9 spark plugs RHB36S upper 1,3,5 and upper and lower on the 2,4,6 cylinders.
2. Checked the mag timing LH 20 deg RH 20.8

This aircraft is approved for return to service in regards to Work performed.


Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#

Date 2/12/2019

ACTT:
Tach: 730.4

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.


Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#

Date 4/2/2019

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray
Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#

Date 6/12/2019

1. Removed the #1 alternator and installed a new alternator PN# ALU-6: SN# H-S081883. Replaced the lug on the power wire.
2. Removed the #2 alternator and installed new brushes PN# ALE-30451

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray
Bradley D Gray A&P 3135226

ACTT:

Tach: 761.3

ACTT:

HRM: 784.1

B&G Aviation LLC
Georgetown Texas 78628 ph 512-864-7632
N321AG
SN#
Date 6/25/2019
1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.
This aircraft is approved for return to service in regards to Work performed.
Bradley D Gray
Bradley D Gray A&P 3135226

ACTT:
Tach: 761.3

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#

Date 8/9/2019

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray
Bradley D Gray A&P 3135226

ACTT:

Tach: 827.3

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN# 4636263

Date 11/6/2019

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray
Bradley D Gray A&P 3135226

ACTT:

Tach: 862.2

B&G Aviation LLC
Georgetown Texas 78628 ph 512-864-7632
N321AG
SN# 4636263
Date 12/10/2019
1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.
This aircraft is approved for return to service in regards to Work performed.
Bradley D Gray
Bradley D Gray A&P 3135226

ACTT:
Tach: 892.8

ite No.

Total
Carry Forward

ENGINE LOG

Date

Engine Time

Recorder
Reading

Maintenance

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN#L-13899-61A

Date 1-15-2020

TTE:907.2

SMOH:

H.M:907.2

1.Changed oil & filter serviced with 12 Qts Phillips 20W-50 new filter AA48103-2

2.Cleaned gapped & rotated plugs

3.Comp Cks #1 69 #2 64 #3 64 #4 63 #5 69 #6 72 over 80 PSI

4.Cleaned fuel & oil screens

5.Checked mag timing

6.Took oil sample at this time

7.C/W AD 15-19-07 fuel injection lines (visual) next due TTE 1007.7 or if clamps are removed

8.Removed & reinstalled starter after tightening hardware

9.All routine maintenance C/W

10.Ground ran engine Ops Ck good no leaks noted.

I certify that this engine has been inspected in accordance

with a 100hr inspection. In accordance with FAR part 43 appendix D

and was determined to be in an airworthy condition

This Engine is approved for return to service in

regards to Work performed.

David McCoy AP 3615278

To

Carry Forward

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN# 4636263

Date 3/24/2020

ACTT:

Tach: 903.0

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN# 4636263

Date 6/29/2020

ACTT:

Tach: 982.2

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray A&P 3135226

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

SN# 4636263

Date 9/9/2020

ACTT:
Tach: 1017.7

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray A&P 3135226

Certificate No.

ACTT:

Tach: 1049.3


Maintenance

1. Changed the oil and filter serviced with Phillips 20W50 and a AA48103 filter. Cut open the old filter and inspected. Ground run Leak check satisfactory.

This aircraft is approved for return to service in regards to Work performed.

Bradley D Gray A&P 3135226

Total
Carry Forward

 Scanned with CamScanner

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: MS-540786	
4. Organization Name and Address: LYCOMING ENGINES 652 OLIVER STREET WILLIAMSPORT, PA 17701				PRODUCTION CERTIFICATE #3		
5. Work Order/Contract/ Invoice Number: 172910/5193261						
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/ Work:	
3.1	KIT-CYL PISTON/RING ASSY	05K21262	12	N/A	NEW	
12. Remarks: AIRWORTHINESS APPROVAL PARTS AIR POWER INC						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved Design data and are in a condition for safe operation. ... Non-approved design data specified in Block 12.			14a. 14 CFR 43.9 Return to Service - Other regulation specified in Block 12. 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.			
13b. Authorized Signature:	13c. Approval/Authorization No: ODA830878NE	14b. Authorized Signature:		14c. Approval/Certificate No.:		
13d. Name (Typed or Printed): T. STROUD	13e. Date (dd/mm/yyyy): 18-DEC-2020	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):		
<p align="center">User/Installer Responsibilities</p> <p>It is important to understand the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>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 his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>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 national regulations by the user/installer before the aircraft may be flown.</p>						
FAA Form 8130-3 (02-14)						
NSN: 0052-00-012-0005						

NSN: 0052-00-012-9005

B&G Aviation LLC

Georgetown Texas 78628 ph 512-864-7632

N321AG

ACTT: 1071.5

SN# L13899.61A

Hrm: 1071.5

Date 2/9/2021

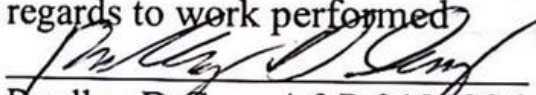
ETT: 1071.5

I certify that this engine has been inspected in accordance with a 100hr inspection. In accordance with FAR part 43 appendix D

Work accomplished as follows

1. Compressions are #1 75/80, 60/80, 72/80, 77/80, 73/80, 77/80
2. Removed the #2 cylinder and replaced with a new cylinder PN#05K21262 and all new gaskets
3. Removed both magnetos and complied with the 500hr inspection on the RH magneto and installed a new PN# 6363 magneto in the LH position and timed to the engine.
4. Complied with AD 15-19-07 fuel injection line inspection. Next due at ACTT: 1171.5
5. Changed the oil and filter serviced with Phillips 20W50 and a new filter. Cut open the old filter and inspected
6. Took an oil sample
7. Cleaned gapped and rotated the spark plugs
8. Complied with all routine maintenance

This engine is approved for return to service in regards to work performed


Bradley D. Gray A&P 3135226



Scanned with CamScanner

ENGINE LOG

ENGINE MODEL:
TIO-540-AE2A
ENGINE SN: L-13899-61A
REG. NO: 321AG
WORK ORDER:
9347-04-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 6/10/2021
A/C TSN: 1093.6
ENG TT: 1093.6
HOBBS: 1093.6

Engine Entries

- (17) CW LYCOMING SB 521 EXHAUST SYSTEM SLIP JOINT INSP. REMOVED CROSSOVER TUBE, SENT OUT TO HAVE SLIP JOINTS SEPARATED TO COMPLETE INSP. INSTALLED CROSSOVER TUBE ASSY AND INSPECTED ALL CLAMPS AND FLANGES. NEXT DUE IN 250HRS.
- (18) CW LYCOMING SB 531 TURBO EXHAUST INSP PER STEPS 1-4. NO DEFECTS FOUND AT THIS TIME. DUE EA 250 HRS.
- (25) REPLACED ENGINE OIL FILLER BASE GASKET WITH NEW P/N 70457 IAW TIO-540 OVERHAUL MANUAL.
- (28) REMOVED EXHAUST TRANSITION PIPE AND SENT OUT TO BE SEPARATED FROM CROSSOVER PIPE ASSY. RE INSTALLED WITH NEW GASKET IAW TIO-540-AE2A MM.
- (30) RE SAFETIED V-BAND CLAMP ON LH SIDE EXHAUST IAW PA46-350P MM CH 81-20-00.
- (33) REPLACED CYLS 1,3,4, 5 & 6 ROCKER BOX COVER GASKETS WITH NEW P/N SL67193-S IAW TIO-540-AE2A MM.
- (37) TENSIONED A/C COMPRESSOR AND ALTERNATOR BELTS IAW PA46-350P MM CH 21-50 AND 24-30.
- (46) REPLACED CYLINDER #1 INTAKE TUBE O-RING AND GASKET IAW TIO-540 OVERHAUL MAN SECTION 6.
- (48) ADJUSTED MIXTURE RISE AND IDLE SPEED IAW PA46-350P CHAP 76-10-00.
- (49) ADJUSTED MANIFOLD PRESSURE IAW PA46-350P CHAP 76-10-00.

DATE: 6/10/2021

SIGNED:

Desmond Gray, A&P: 3622985

Work Order: 9347-04-2021

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Total
Carr

and Remarks

Signature

Certificate No.

ENGINE MODEL:
TIO-540-AE2A
ENGINE SN: L-13899-61A
REG. NO: 321AG
WORK ORDER:
9401-06-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 6/14/2021
A/C TSN: 1096.6
ENG TT: 1096.6
HOBBS: 1096.6

Engine Entries

- (2) REMOVED #2 LOWER VACUUM PUMP P/N 442CW-6 S/N 182033 AND INSTALLED OVERHAULED UNIT P/N 442CW-6 S/N 193821. INSTALLED 2 NEW VACUUM REGULATOR FILTERS P/N RAB3-5-1. ALL WORK PERFORMED IAW PIPER PA-46-350P MM CH 37-10.

DATE: 6/14/2021

SIGNED:

Desmond Gray, A&P: 3622985

Work Order: 9401-06-2021

Printed by EBis 3 (datamedia.com)

07/06/2021
Tach: 1105.5

Lawrence Airmotive LLC
603-479-2067

LWMAirmotive@outlook.com

Removed and replaced lower vacuum pump with
Function and leak checked OK.



Lawrence Municipal Airport
492 Sutton St.
N. Andover, MA 01845

overhauled unit Tempest 442CW sn: 0MWN06.

N321AG

Michael Moschetto AP4217960

02/04/2022
Tach: 1131
AC/PropTT: 1131

Lawrence Airmotive LLC
603-479-2067
LWMAirmotive@outlook.com



Lawrence Municipal Airport
492 Sutton St.
N. Andover, MA 01845

N321AG
ETT: 1131

Complied with an annual inspection in accordance
All airworthiness directives reviewed through biweekly 2022-03 and none due at this time.
Compressions #1 76 #2 75 #3 73 #4 76 #5 78 #6 76/80
Removed and replaced exhaust gasket at cylinder #6.

with FAR 43 appendix D.

Complied with oil and filter change. Removed filter was split and no contamination found. Engine serviced with 11qts of Phillips X/C 20w/50 and a new CH48103-1 filter. Engine ran-up and leak checked OK.

All fuel injector nozzles were removed, cleaned, flow tested and reinstalled with new seals. Ops and leak check OK.

All spark plugs were cleaned, gapped tested and rotated when reinstalled.

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


Nicholas Flammia AP3339511A

Total To Carry Forward				

Date: 8/25/2022; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1227.60; Total Time: 1227.60

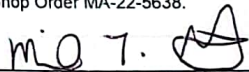
1. Changed engine oil and filter. Cut open and visually inspected old filter. Took oil sample for spectrometric analysis. Installed new p/n CH48103-1 filter and safetied. Cleaned engine and lubed controls. Serviced engine with 11 quarts of Phillips 20W50 XC oil.

2. Removed left magneto Slick m/n 6363 s/n 2010040. Replaced adapter gasket p/n 6224 and base gasket p/n LW-12681. Reinstalled and timed to engine at 20° BTCC cylinder No. 1. Right magneto timing checked at 20°.

3. Ran engine and checked for leaks. No leaks noted. Engine ground operation checked good.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.
Shop Order MA-22-5638.


Michael T. Gavaghan A&P 3473342 IA

8/25/2022
date

Certificate No.

ENGINE LOG

Date: 8/26/2022; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1227.60

Maintenance

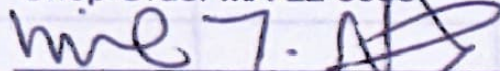
1. Repositioned heat shield on exhaust crossover below cylinder No. 5 in correct orientation using 2 new p/n LW15592-8E24 clamps. Repositioned V-band clamp for clearance. Torqued to 65 in / lbs and safetied. Retorqued V-Band clamp after engine run.

2. Adjusted idle mixture 3 clicks to enrichen IAW AMM Section 76-10-00. Checked good on engine ground run.

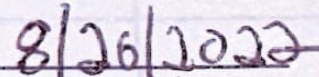
Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.

Shop Order MA-22-5638



Michael T. Gavaghan A&P 3473342 IA


date

Total To
Carry Forward

Date: 8/26/2022; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1189.60

Certificate No.

1. Full power is approx 1" low. Increased manifold pressure control 1 turn counter clockwise. Tightened jamb nut.

2. Customers instructor requested check of #5 cylinder spark plugs. Removed engine cylinder #5 top spark plug and tested with resistance test box. Plug checked good. Reinstalled plug and torqued. Reinstalled ignition lead and tightened.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.
Shop Order MA-22-5638

Anthony J. DiNuzzo A&P 3466490 IA

Date

N321AG

Eng Hrs: 1275.6

12-29-2022

- Drained oil, removed and cut filter. No discrepancies noted. Installed new Champion CH48103-1 oil filter and added 11 qts Aeroshell 15W50 engine oil.
- Installed 12 new Champion RHB36S spark plugs.

Michael B. Priolo
A&P 3987560

Big Sky Aviation, Millville NJ

ENGINE LOG

Date	Engine Time		Recorder	Maintenance		
	This Date	Since Major				
Date: 3/24/2023; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1280.80; Total Time: 1280.80						
MAKE: Lycoming m/n: TIO-540-AE2A; s/n: L-13899-61A; TOTAL TIME =1280.8; TSMOH = N/A						
I certify that this engine has been inspected in accordance with an ANNUAL INSPECTION and current FAA Regulations and was determined to be in an airworthy condition. Pertinent details are on file at this facility under Shop Order # MA-23-5860.						
1. Complied with engine cylinders compression check: #1-75/80; #2-78/80; #3-74/80; #4-76/80; #5-78/80; #6-77/80.						
2. All spark plugs cleaned, gapped, tested, rotated, and reinstalled using new p/n M674 gaskets.						
3. Changed engine oil and filter. Took engine oil sample for spectrometric analysis. Cut open and visually inspected old filter. Installed new p/n CH48103-1 filter and safetied. Cleaned engine and lubed engine controls. Serviced engine with 11 quarts of Aeroshell 15W50 oil.						
4. Inspected, cleaned, and reinstalled oil suction screen using new p/n MS35769-21 gasket.						
5. Left magneto timing checked at 20 BTDC #1 cylinder. Right magneto timing checked at 20 BTDC #1 cylinder.						
6. Fuel controller fuel inlet screen visually inspected, cleaned, and reinstalled. No leaks noted.						
7. On pre inspection run, full power manifold pressure was approx 1" low. Adjusted 1 turn counterclockwise on pressure controller IAW Piper Maintenance Manual Chapter 76-10-00 page						
Total Carr	Forward					

and Remarks	Signature	Certificate No.
2 paragraph 3.		
8. On pre inspection run, engine idle was high. Turned idle bolt two flats counter clock wise.		
9. Pre inspection run, engine mixture rise on shut down maybe 10 RPM rise. Adjusted idle mixture 2 clicks in the rich direction.		
10. Complied with inspection of exhaust system slip joints for proper engagement and inspection of Marmon flange joint at transition inlet IAW Textron Lycoming Mandatory Service Bulletin #521 dated 2 /10/1995. Right and intermediate crossover pipes look in good condition with 2" and 1.5" of engagement. Left crossover pipe had damage on surfaces. Reassembled crossover tube with new left exhaust tube p/n 04B19850. Aligned pipes and reconnected right pip with new gasket p/n 06B19913 and original V-band clamp. Connected left side with new p/n 75845 gasket and original V-band clamp. Reconnected attach support straps with original hardware IAW MSB # 521 Figure 1 and tightened. Torqued left V-band clamp to 85 in / lbs and safety wired clamp. Torqued right V-band clamp to 65 in lbs and safety wired clamp. Reinstalled center heat shield forward half with 2 new clamps p/n LW15592-8E24 and tightened. Installed aft heat shield with 2 original bolts, 2 new bolts p/n AN3-3A and tightened. Reinstalled right side heat shield and tightened.		
11. Complied with Lycoming Mandatory Service Bulletin 531C dated 3/10/2020 inspection of engine turbochargers and tail pipes. No defects noted.		
12. Complied with AD 2015-19-07 Amendment: 39-18269 dated 11/03/2015 inspection of fuel injector fuel lines and support clamps per Lycoming Mandatory Service Bulletin 342G dated July 16, 2013, Lycoming Mandatory Service Bulletin 342G Supplement 1 dated August 29, 2013 and Lycoming Mandatory Service Bulletin 342G Supplement 2 dated January 23, 2014. No defects		

ENGINE LOG

Date	Engine Time	Recorder	Maintenance
	noted. Next inspection is due within 110 hours at Hobbs 1390.8 and engine overhaul and whenever any fuel lines support clamps are disconnected, moved, or loosened.		
	13. Removed engine breather tube from left exhaust pipe. Decoked opening in left tail pipe. Reinstalled breather tube and tightened clamp.		
	14. Hardware is loose on the lower end of the pressure controller rod. Removed cotter pin from nut on pressure controller rod lower attach point. Tightened nut and bolt. Installed new cotter pin.		
	15. Removed dirt and debris for top of the pressure controller plunger and cams.		
	16. Pressure checked engine exhaust system for leaks. No excessive leaks noted.		
	17. Pressure checked engine induction system for leaks. No leaks noted.		
	18. Performed 400 hour rocker box inspection on cylinders. No damage or defects noted. Cleaned surfaces. Reinstalled covers using 5 original silicone gaskets and one new gasket p/n 06B26811. Torqued cover attach hardware IAW Lycoming direct drive engines Section 5 Special Torque requirements Revision 4/1/2020 SSP-1776. Next 400 hours inspection is in 400 hour or at 1680.8 Hobbs time.		
	19. Ops checked engine manifold drain. Checked good.		
	20. Left magneto was replaced at aircraft total time 1071.5 m/n 6363 s/n 20100401. Next 500 hour is due in 290.7 hours. Right magneto 500 hour inspection last complied with 2/9/2021 at aircraft total time 1071.5. Next 500 hour inspection due at aircraft total time 1571.5. 290.7 hours till due.		
Total To Carry Forward			

1

A IRM # 94

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RE FAA Form 8130-3, AI
4. Organization Name and Address: Piper Aircraft, Inc. 2926 Piper Drive Vero Beach, FL 32960 USA		PC
6. Item:	7. Description:	8. Part Number:
10	BATTERY	601-919
12. Remarks: Airworthiness Approval Expires on 6/7/2022		

and Remark

Certificate No.

21. Removed right turbocharger p/n 46C19839M s/n H-PHL00049. Installed overhauled turbocharger from Main Turbo System Inc p/n 466642-9005 s/n DFL04540. Aligned center section to turbine section. Torqued to 130 in /lbs and bent safety tabs. Installed turbocharger with original hardware. Reconnected tail pipe and torqued clamp to 65 in / lbs. Safetied wired clamp. Installed reservoir to turbocharger and oiled bearing section with engine oil untill oil came out of reservoir. Connected inlet hose to reservoir. Tightened B-nuts. Installed compressor hoses. Indexed compressor and tightened compressor housing bolts. Torqued to 130 in / lbs. Preoiled turbocharger by cranking engine.

22. Engine ground operation checked good. No leaks noted.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.
Shop Order MA-23-5880

Anthony J. DiNuzzo A&P 3466490 IA

3/24/2023
Date

- ☒ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 12.

13b. Authorized Signature:

13d. Name (Typed or Printed):

Melton, Carolyn

13c. Approval/Authorization
PC206

13e. Date (dd/mm/yyyy):

2/June/2021

ENGINE LOG

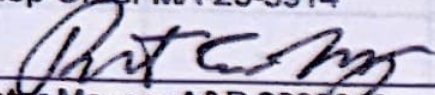
Date: 5/12/2023; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1306.80

Changed engine oil and filter. Took engine oil sample for spectrometric analysis. Cut open and visually inspected old filter. Installed new p/n CH48103-1 filter and safetied. Cleaned engine and lubed engine controls. Serviced engine with 11 quarts of Aeroshell 15W50 oil. Ran engine and checked for leaks. No leaks noted. Engine ground operation checked good.

Maintenance

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.
Shop Order MA-23-5914


Peter Meyers A&P 2206210

5/12/2023
Date

Date: 5/12/2023; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1306.80

Checked and adjusted idle RPM. After adjustment of the idle speed with engine up to normal operating temp the idle speed was approx 690-710 RPM.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified above was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.
Shop Order MA-23-5914


Kyle S. Bork A&P IA 3492553

5/12/23
Date

Total
Carr

10/02/2023 - N321AG - Model PA-46-350P - SN: 4636563
ACTT: 1344.7

Oil change is due

Gained access to engine oil filter. Changed oil and filter, cut filter open and inspected filter media, no obvious signs of metal noted. Oil sample taken, Owner to send oil sample for analysis. New filter installed, torqued and safetied as needed. Ran engine, leak check passed.

Work done IAW Piper PA-46-350P AMM 12-10-00. and Lycoming SB No.480F.

Nilson Bolanos



A&P 3366635 IA

Signature

Certificate No.

Date: 3/22/2024; Aircraft: N321AG; Type: PA-46-350P; S/N: 4636563; Hobbs: 1368.20; Total Time: 1368.20

MAKE: Lycoming m/n: TIO-540-AE2A; s/n: L-13899-61A; TOTAL TIME =1368.2; TSMOH = N/A

I certify that this engine has been inspected in accordance with an ANNUAL INSPECTION and current FAA Regulations and was determined to be in an airworthy condition. Pertinent details are on file at this facility under Shop Order # MA-24-6168

1. Complied with engine cylinders compression check: #1-74/80; #2-76/80; #3-72/80; #4-78/80; #5-78/80; #6-76/80.
2. All spark plugs cleaned, gapped, tested, rotated, and reinstalled using new p/n M674 gaskets.
3. Changed engine oil and filter. Took engine oil sample for spectrometric analysis. Cut open and visually inspected old filter. Installed new p/n CH48103-1 filter and safetied. Cleaned engine and lubed engine controls. Serviced engine with 11 quarts of Aeroshell 15W50 oil.
4. Inspected, cleaned, and reinstalled oil suction screen using new p/n MS35769-21 gasket.

5. Left magneto timing checked at 21° BTDC #1 cylinder. Right magneto timing checked at 20° BTDC #1 cylinder.

6. Fuel controller fuel inlet screen visually inspected, cleaned, and reinstalled. No leaks noted.

7. Removed filter. Tapped out loose dirt and debris. Inspected filter and reinstalled.

8. Complied with Lycoming Mandatory Service Bulletin 521 dated 2/10/1995 inspection of exhaust system slip joint for proper engagement and inspection of Maron flange joint at transition inlet. Removed crossover pipes inspection. No defects noted. All engagement checked good. Reassembled crossover tubes and installed new gasket p/n 06B19913 at right V-band clamp. Torqued V-band clamp to 85 in / lb and safety wired. Reinstalled support clamps and links. Adjusted and tightened. Reinstalled heat shield with 1 new clamp p/n LW15592-8E24 on the forward shield. Installed aft heat shield with 4 original bolts and 1 new bolt p/n AN3-3A. Reinstalled the left induction tube and coupling. Tightened clamps and reinstalled right heatshield. Tightened clamps. Reinstalled the right sonic nozzle hose with one new clamp.

9. Complied with Lycoming Mandatory Service Bulletin 531C dated 3/10/2000 inspection of engine turbochargers and tail pipes. No defects noted . Next due in 250 hours Hobbs 1618.2 or next annual

10. Complied with AD 2015-19-07 Amendment: 39-18269 dated 11/03/2015 inspection of fuel injector fuel lines and support clamps per Lycoming Mandatory Service Bulletin 342G dated July 16, 2013, Lycoming Mandatory Service Bulletin 342G Supplement 1 dated August 29, 2013 and Lycoming Mandatory Service Bulletin 342G Supplement 2 dated January 23, 2014. No defects noted. Next inspection is due within 110 hours at Hobbs 1478.2 and engine overhaul and whenever any fuel lines support clamps are disconnected, moved, or loosened.

11. Pressure checked engine exhaust system. No defects noted.

12. Pressure checked engine exhaust system. No defects noted.

13. Last engine 400 hour rocker box inspection complied with at ACTT 1280.8. Next due at ACTT 1680.0. 312.5 hours till due.

14. Ops checked engine manifold drain. Ops checked good.

15. Engine magneto 500 hour inspection. Next due at ACTT 1571.5. 203.3 hours till due.

Date

Total To
Carry Forward

16. Removed engine breather tube from the left exhaust tail pipe. Decoked opening and reinstalled breather tube.

17. Complied with Lycoming Mandatory Service Bulletin 650 dated 1/4/2024 intake pipe and flange inspection. No defects noted at this time. Next inspection is due at next scheduled inspection.

18. AD 2023-09-09 dated 7/17/2023 is not applicable at this time. Riveted V-band clamps are installed on exhaust tail pipe.

19. Bolt is loose through engine cylinder #3 top forward flange attaching fuel upper deck reference tube and outer baffle support bracket. Installed a new bolt p/n AN4-16 nut, and washer.

20. Cleaned all ignition lead ends with MEK.

21. Lubed exhaust system slip joints with mouse milk.

22. Checked and retorqued exhaust system V-band clamps IAW Lycoming SI 1238B Table 1.

23. Resecured screen on exhaust crossover pipe forward heat shield with safety wire

24. Engine ground operation checked good. No leaks noted.

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA, and is approved for return to service.

Shop Order MA-24-6168

Anthony J. DiNuzzo A&P 3466490 1A

Date _____

Certificate No.