

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-AE2A

SERIAL NO. L-11012-61A

DATE 5-23-01

B. McCarty
(AUTHORIZED REPRESENTATIVE)

TEXTRON Lycoming

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

Date: 10/12/2001

Hobbs: 28.0

TT: 28.0

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

Aircraft SN: 4636315

Date in service 10/08/2001

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Changed engine oil and filter, inspected filter and suction screen , no defects or contamination found, serviced with 12 quarts A/S 15W50 and (1) # CH48103 filter. Washed engine compartment as needed, ground run engine, leak checked, no leaks detected & operation checked satisfactory. W.O. # 13937

Signature



ECWR470D

Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Date:

Hobbs: 66.3

TT: 66.3

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

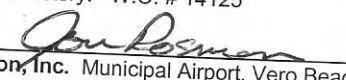
Aircraft SN: 4636315

Date in service 10/08/2001

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Changed engine oil and filter, inspected filter and suction screen , no defects or contamination found, serviced with 12 quarts A/S 15W50 and (1) # CH48103 filter. Removed oil sample & shipped to Aviation Laboratories for analysis. Washed engine compartment as needed, ground run engine, leak checked, no leaks detected & operation checked satisfactory. W.O. # 14125

Signature



ECWR470D

Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Total To
Carry Forward



and Remarks	Signature	Certificate No.
<p>Date: 12/19/2001 Hobbs: 103.3 TT: 103.3</p> <p>Engine Log Model: TIO-540-AE2A SN: L-11012-61A</p> <p>N239CC Aircraft SN: 4636315 Date in service 10/08/2001</p> <p>MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.</p> <p>Performed a 100 HOUR inspection IAW FAR 91.409 (a) (1) AND FAR 43, appendix D.</p> <p>Compressions: (1) 75 (2) 75 (3) 74 (4) 74 (5) 74 (6) 75/80. Changed engine oil and filter, inspected oil filter element and serviced with 12 quarts A/S 15W/50 oil and (1) each # CH48103 filter. Removed oil sample & shipped to Aviation Laboratories for analysis. Replaced TIT probe IAW AD 99-15-04 R1, amend. 39-11747, installed FAA approved PN 481-389, see approval letter dated 10, 1999 attached to log entry, replace each 250 hours or as needed. C/W AD 84-26-02 amend 39-4966 inspected induction air filter & found ok, inspect ea 100 hours and replace ea 500 hours or as needed. C/W AD 93-02-05 amend. 39-8487, inspect fuel injector lines/clamps IAW Lyc. SB 342 A, B & C and AD 00-00-04 & no defects found, inspect ea 100 hours or annually. Removed oil temperature probe & replaced crush washer. Installed (1) new intake gasket on # 3 cylinder. Re-timed both magnetos to 20 degrees BTDC. Installed new clamp on # 5 cylinder heat shield. Washed engine compartment, as needed, ground run engine, leak checked, no leaks found and operation checked satisfactory. A.D.'s researched through Rev. 2001.25, W.O. # 14333</p> <p>Signature <u><i>[Signature]</i></u> ECWR470D Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257</p>		

Date: 2/01/2002

Hobbs: 136.0

TT: 136.0

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

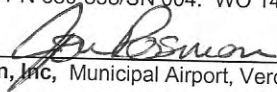
Aircraft SN: 4636315

Date in service 10/08/2001

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Replaced (2) each fuel boost pump switches PN C4003. Set height of nose trunion rigging retraction & set steering bellcranks. De-fueled aircraft, replaced Left and Right Wing fuel quantity sensors (matching pair), Left PN 766-673 & Right PN 766-674, refueled system and calibrated fuel system, IAW Piper Maintenance Manual Ref. 28-40-00, operation checked satisfactory. Lubricated nose tire roller. Replaced static wick, LH side. Repositioned trim indicator. Reset fuel pressure IAW Piper Maintenance Manual. Inspected alternate air rigging and found ok. Reset main landing gear retract cylinder and checked toe. C/W Piper SA 46-12 by replacing annunciator panel, removed PN 602-234/SN N182 and installed PN 680-838/SN 004. WO 14584

Signature



ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Date: 2/01/2002

Hobbs: 136.0

TT: 136.0

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

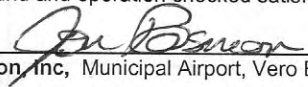
Aircraft SN: 4636315

Date in service 10/08/2001

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Changed engine oil and serviced with 11 quarts A/S 15W/50 oil. Ground run engine, leak checked, no leaks found and operation checked satisfactory. W.O. # 14584

Signature



ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Total To
Carry Forward

Date: 3/26/2002

Hobbs: 164.5

TT: 164.5

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

Aircraft SN: 4636315

Date in service 10/08/2001

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Changed engine oil & filter, serviced with 12 qts A/S 15W50 and (1) CH48103 filter. WO 14711

Signature *[Signature]*

ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Certificate No.

Date: 5/17/2002

Hobbs: 218.9

TT: 218.9

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

Aircraft SN: 4636315

Date in service 10/08/2001

Changed engine oil & filter, added 12 qts A/S 15W50 and (1) CH48103 filter. Removed oil sample & shipped to Aviation Laboratories for analysis.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office. WO 14916

Signature *[Signature]*

ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Date: 12/19/2001

Hobbs: 103.3

TT: 103.3

Propeller Log

Model: HC-13YR-1E

SN: HK692B

N239CC

Aircraft SN: 4636315

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified below was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Performed a 100 HOUR inspection IAW FAR 91.409 (a) (1) AND FAR 43, appendix D.
Lubricated hub and dressed blades. A.D.'s researched through Rev. 2001.25 W.O. # 14333

Signature *[Signature]*

ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (561) 562-9257

Date: 7/18/2002
Hobbs: 255.0
TTAF: 255.0

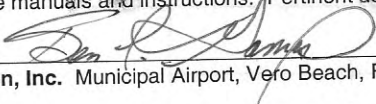
Engine Log
Model: TIO-540-AE2A
SN: L-11012-61A

N239CC
Aircraft SN: 4636315
Date In Service: 10/08/01

Drained oil, removed filter & cut open, no contamination noted. Serviced with 12 qts. A/S 15W50 & (1) CH48103 filter, torqued to 16 ft lbs. Ran engine, leak check good, W/O# 15397.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office.

Signature



ECWR470D

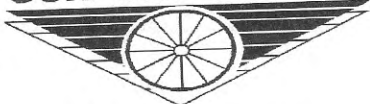
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

DATE: 02/07/2003

MAKE / MODEL: Lycoming TIO540-AE2A

ENGINE TT: 293.6

SUN JET CENTER



ENGINE LOG ENTRY

AIRCRAFT REG: N239CC

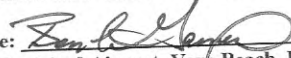
AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

- Removed this engine for compliance with AD 2002-19-03, replacement of the engine crankshaft. The engine was crated and returned to Lycoming for compliance. End.

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 15527

Authorized Signature:



Ben T. Games, Chief Inspector for CRS# ECWR470D
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

and Remarks

Signature

Certificate No.

LYCOMING

A Textron Company

652 Oliver Street
Williamsport, PA 17701

03/24/03 Engine s/n **L-11012-61A** was removed from service with 293.6 TT and returned to Lycoming for inspection/repair for replacement of the crankshaft. Engine was disassembled, cleaned, and inspected. Engine was reassembled replacing the crankshaft with s/n V537931197 (1) Crankshaft Gear, (3) Intake Pipes, (1) Prop. Governor Idler Gear, (3) Pistons, (1) Oil Pump Body, (2) Impellers, (1) Turbo Strut and (12) Tappets. All the cylinders were replaced including valves, springs, & seats. Also replaced were all bearings, piston rings, all other hardware necessary for the repair, and all perishable items. Engine was tested in accordance with Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240S, 342D (93-02-05), 475C (91-14-22), 521, 531, 534, 552 (2002-19-03), 554 (2002-23-06), 555, SI 1267C, 1410, 1424, 1487. All pertinent data relating to this work is on file at Lycoming under work-order **CA11012**.


F. H. Hill Jr. Repairman #2395329
Repair Station EJ1R115K

END

ENGINE LOG

SUN JET CENTER



ENGINE LOG ENTRY

DATE: 04/09/2003

MAKE / MODEL: Lycoming TIO540AE2A

AIRCRAFT TOTAL TIME: 294.0

ENGINE TOTAL TIME: 294.0

AIRCRAFT REG: N239CC

AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

- I certify that this engine has been inspected I/A/W an annual inspection per guidelines in the Piper PA46-350P maintenance manual 100 hour inspection checklist, FAR 43, Appendix D, and this engine has been determined to be in an airworthy condition. Airworthiness Directives verified through Bi-Weekly 2003-07.

AIRWORTHINESS DIRECTIVES COMPLIED WITH THIS INSPECTION:

SPECIAL INSPECTIONS COMPLIED WITH THIS INSPECTION:

- AD 2002-26-01, by inspection of the fuel injector lines and clamps per SB 342D.
- No special inspections apply at this time.

SERVICE INFORMATION COMPLIED WITH THIS INSPECTION:

- No service information accomplished this inspection.

MISCELLANEOUS MAINTENANCE PERFORMED THIS INSPECTION:

- Annual inspection completed after engine installation post Lycoming repair and compliance with AD 2002-19-03. Engine was set up and rigged per Lycoming maintenance manual and applicable service instructions. Serviced the engine with Aeroshell 15W50 oil.
- Operational / leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-350P maintenance manual and is approved for return to service. END

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 16368.

Authorized Signature:  Ben T. Games, Chief Inspector for CRS# ECWR470D
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

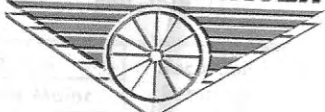
DATE: 05/29/2003

MAKE / MODEL: Lycoming TIO540AE2A

AIRCRAFT TOTAL TIME: 334.1

ENGINE TOTAL TIME: 334.1

SUN JET CENTER



ENGINE LOG ENTRY


AIRCRAFT REG: N239CC

AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

- Removed defective engine fuel pump P/N RG9080J4A/M, S/N E1588, and installed factory new pump P/N RG9080J4A/M, S/N E2333. Performed engine set up and performance runs. Adjusted as necessary.
- Operational / Leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-350P maintenance manual and is approved for return to service. END

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 16949.

Authorized Signature:  **Ben T. Games, Chief Inspector for CRS# ECWR470D**
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

Total To Carry Forward				

SUN JET CENTER



ENGINE LOG ENTRY

DATE: 06/25/2003

MAKE / MODEL: Lycoming TIO540AE2A

AIRCRAFT TOTAL TIME: 351.7

ENGINE TOTAL TIME: 351.7

AIRCRAFT REG: N239CC

AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

- Performed an engine oil and filter change. Drained the engine oil and removed the filter. The filter was cut open for a metallic contamination inspection and no contaminants were noted at this time. Installed a new filter P/N CH48103 and replenished the engine with 12 quarts Aeroshell 15W50oil.
- Freed frozen wastegate linkage and lubricated to achieve proper operating parameters throughout all power settings.
- Leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-350P maintenance manual and is approved for return to service. END

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 17058.

Authorized Signature:  Ben T. Games, Chief Inspector for CRS# ECWR470D

Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

Presidential Aviation Inc.

Hobbs: 380.0 Date: 7/22/03

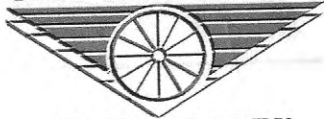
Maintenance

Removed and replaced r/h mag. W/ new p/n 66LP-OSCNP M/N
6360 S/N 03061228, retimed l/h mag, oil and filter changed, filter
cut- no metal found, added 12 qt. 15/50 aeroshell, new ch48103
filter. Ops check-ok. Joshua Withe A&P 26687591

Joshua Withe 26687591/ATP

Total To Carry Forward				

SUN JET CENTER



ENGINE LOG ENTRY

DATE: 08/26/2003

MAKE / MODEL: Lycoming TIO540AE2A

AIRCRAFT TOTAL TIME: 414.5

ENGINE TOTAL TIME: 414.5

AIRCRAFT REG: N239CC

AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

- I certify that this engine has been inspected I/A/W a 100 hour inspection per guidelines in the Piper PA46-350P maintenance manual 100 hour inspection checklist, FAR 43, Appendix D, and this engine has been determined to be in an airworthy condition. Airworthiness Directives verified through Bi-Weekly 2003-17.

AIRWORTHINESS DIRECTIVES COMPLIED WITH THIS INSPECTION: SPECIAL INSPECTIONS COMPLIED WITH THIS INSPECTION:

- AD 2002-26-01, by inspection of the fuel injector lines and clamps per SB 342D. ➤ No special inspections apply at this time.

SERVICE INFORMATION COMPLIED WITH THIS INSPECTION:

- No service information accomplished this inspection.

MISCELLANEOUS MAINTENANCE PERFORMED THIS INSPECTION:

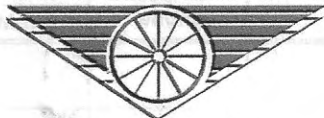
- Complied with an engine cylinder differential compression test and the results are as follows: 1) 76/80, 2) 74/80, 3) 75/80, 4) 76/80, 5) 74/80, 6) 75/80.
- Accomplished an engine oil and filter change. Drained the engine oil and removed the filter. The filter was cut open for a metallic contamination inspection and no contaminants were note at this time. Installed a new filter P/N CH48103 and replenished the engine with 12 quarts Aeroshell 15W50 oil.
- Removed debris from the oil breather tube into exhaust port. Installed new spark plug P/N RHB36S in the lower #2 cylinder. Installed new #1 vacuum pump cooling shroud P/N 89689-005.
- Installed a new L/H magneto P/N 6363, S/N 03021075 and timed to 20 deg. BTDC.
- Operational / leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-350P maintenance manual and is approved for return to service. END

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 17373.

Authorized Signature:  Ben T. Games, Chief Inspector for CRS# ECWR470D
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

ENGINE LOG

SUN JET CENTER



"Shining as a Leader in Aviation Services since 1929"

DATE: 11/07/2003

MAKE / MODEL: Lycoming TIO540AE2A

AIRCRAFT TOTAL TIME: 470.3

ENGINE TOTAL TIME: 470.3

AIRCRAFT REG: N239CC


AIRCRAFT S/N: 4636315

ENGINE S/N: L-11012-61A

ENGINE LOG ENTRY

- Performed an engine oil and filter change. Drained the engine oil and removed the filter. The filter was cut open for a metallic contamination inspection and no contaminants were noted at this time. Installed a new filter P/N CH48103 and replenished the engine with 12 quarts Aeroshell 15W50 oil.
- Leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-350P maintenance manual and is approved for return to service. END

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 17897.

Authorized Signature:  Ben T. Games, Chief Inspector for CRS# ECWR470D
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

Total To Carry Forward				

and Remarks

Signature

Certificate No.

SUN AVIATION, INC., Vero Beach, FL (VRB)

Date: 5/12/04

Engine Log

N239CC

Hobbs: 519.9

Model: TIO-540-AE2A

Aircraft SN: 4636315

Engine TT: 519.9

SN: L-11012-61A

Date in service 10/08/2001

ACTT: 519.9

C/W an Annual Inspection IAW FAR 43, appendix "D" using the Piper PA46-350P 100 Hour Inspection Checklist as a guide.

Engine Cylinder Compressions: (1) 78 (2) 79 (3) 77 (4) 78 (5) 78 (6) 79 all over 80.

Installed (12) ea new Sparkplug Gaskets PN M674. Changed engine oil & filter, inspected oil filter element, cleaned suction screen, removed oil sample for analysis and installed 12 qts A/S 15W50 and (1) CH48103-1 filter.

C/W AD 84-26-02 Inspection of Induction Air Filter (Replace EA 500 Hrs), next due at ACTT. TT 914.5.

C/W AD 99-15-04R1 TIT Probe Inspection and Replacement, due ea 250 HRS, next due ACTT 544.0

C/W AD 2002-26-01 Inspection of Fuel Injector Lines/Clamps, next due @ Eng. TT 619.9 or Annual.

C/W AD 2003-14-03 Romec/Lear Rotary Fuel Pump Inspection, Installed Repaired Engine Driven Fuel Pump PN RG9080J4 A/M/SN E2019. Replaced all Rocker Box Cover Gaskets, installed 6 ea new PN 67193 Gaskets. Installed new Gaskets, RH Magneto, 1 ea PN LW12681 and 1 ea PN 62224. Installed new Gaskets, # 1 Vacuum Pump, 1 ea PN 61183 and 1 ea PN 8313. C/W 400 HR Pressure Manifold and Cleaning, De-Ice Valve Pneumatic Control Valves IAW Piper SB 803A. Installed (1) ea new Worm Clamp PN QS200MOH, RH Engine Mount. Re-tensioned A/C Compressor Belt, the # 1 and # 2 Alternator Belts. Tightened all Alternate Air Door Linkage and re-safetied. Lubricated Waste-gate Butterfly Shaft Bushings. Rerouted hoses, as needed, to install Engine Driven Fuel Pump.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO # 18653. Ad'S Researched through Rev. 4/26/2004

Signature

CRS # ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

SUN AVIATION, INC., Vero Beach, FL (VRB)

Date: 06/29/04

Hobbs: 624.0

Engine TT: 624.0

ACTT: 624.0

Engine Log

Model: TIO-540-AE2A

SN: L-11012-61A

N239CC

Aircraft SN: 4636315

Date in service 10/08/2001

W an Annual inspection IAW FAR 43, appendix "D" using the Piper PA46-350P 100 Hour Inspection Checklist as a guide.

Engine Cylinder Compressions: (1) 74 (2) 73 (3) 72 (4) 75 (5) 72 (6) 74 all over 80.

Installed (12) ea new Sparkplug Gaskets PN M674. Changed engine oil & filter, inspected oil filter element, cleaned suction screen, removed oil sample for analysis and installed 12 qts A/S 15W50 and (1) CH48103-1 filter.

C/W AD 84-26-02 Inspection of Induction Air Filter (Replace EA 500 Hrs), next due at ACTT. TT 914.5.

C/W AD 99-15-04R1 TIT Probe Inspection, replaced TIT Probe installed 1 ea new PN 86307, Replacement, due ea 250 HRS, next due ACTT 874.0. **C/W AD 2002-26-01** Inspection of Fuel Injector Lines/Clamps, next due @ Eng. TT 724.0 or

Annual. **C/W AD 2003-14-03** Romec/Lear Rotary Fuel Pump Inspection, "M suffix is present and NO FURTHER ACTION REQUIRED. **C/W Piper SB 1012/Lyc. 531** Removed and inspected LH and RH Tailpipes, Turbo Exhaust and cleaned

deposits in Turbo Exhaust Outlet. **C/W Piper SB 1029/Lyc. 534**, found new styli tanks previously installed PN 58B22629 and PN 58B22630. **Verified Piper SB 1103B N/A** new style mount installed. Installed new upper Actuator

Mount Bolt PN AN3-15A. **C/W Lycoming SB 521** by inspecting Exhaust Crossover Pipe and Slip Joint Engagement. Re-tensioned # 1 and # 2 Alternator Belts. Re-tensioned A/C Compressor Belt. Re-timed RH Magneto to 20 degrees

BTDC. Disconnected Wastegate Actuator from Wastegate Butterfly, lubricated and freed up Butterfly. Reconnected Wastegate Actuator to Wastegate Butterfly. Tightened Alternate Air Door Linkage and replaced FWD Linkage Bolt PN

AN3-5.

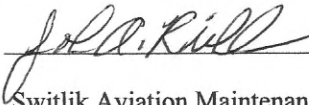

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO # 19951. Ad'S Researched through Rev. 2005.11

Signature 

CRS # ECWR470D

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Tail N239CC Date 8/4/05 Hours 659.2			
	Changed oil & filter, Aeroshell			
	15W 50, CH48103. Run-up normal.			
				
	John A Richardson 262536133 A&P			
	Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666			
	11-22-05 N239CC Hobbs 659.2			
	Changed oil & filter. Aeroshell			
	W15W 50. Inspected engine			
	INSTALLATION. Ground Run & Leak			
	Checked.			
				
	LA2197076			
Total To Carry Forward				

SUN AVIATION, INC., Vero Beach, FL (VRB)

UPS FOR UPS SHIPPING ONLY

Date: 7/18/06
Hobbs: 754.4
Engine TT: 754.4
ACTT: 754.4

Engine Log
Model: TIO-540-AE2A
SN: L-11012-61A

N239CC
Aircraft SN: 4636315
Date in service 10/08/2001

C/W an Annual inspection IAW FAR 43, appendix "D" using the Piper PA46-350P 100 Hour Inspection Checklist as a guide.

Engine Cylinder Compressions: (1) 77 (2) 76 (3) 74 (4) 76 (5) 75 (6) 77 all over 80.

Changed engine oil & filter, inspected oil filter element, cleaned suction screen, removed oil sample for analysis and installed 12 qts A/S 15W50 and (1) CH48103-1 filter. Installed 11 new Sparkplug Gaskets PN M674.

C/W AD 84-26-02 Inspected and replaced the Induction Air Filter PN 561-020, (Replace EA 500 Hrs), next due at ACTT. TT 1254.4. C/W AD 99-15-04R1 TIT Probe Inspection, replaced TIT Probe installed 1 ea new PN 86307, Replacement, due ea 250 HRS, next due ACTT 1004.4. C/W AD 2002-26-01 Inspection of Fuel Injector Lines/Clamps, next due @ AC TT: 854.4 or Annual. C/W Lycoming SB 521 by inspecting Exhaust

Crossover Pipe and Slip Joint Engagement at Transition Inlet, installed new Worm Clamps on Crossover Heat Shield and on RH Heat-shield, 4 ea new PN 6204028, Screws and Gaskets, as needed. C/W Piper SB

1012/Lyc. 531 Removed and inspected LH and RH Tailpipes, Turbo Exhaust and cleaned deposits in Turbo Exhaust Outlet, installed 2 new Couplings and 2 new V Band Clamps on top and bottom of Waste Gate and new V Band Clamps on LH and RH Tailpipes. Installed New Lord Mounts, 4 ea PN 475-116, 4 ea PN 475-117 and 1 ea new Gasket PN 71973. Straightened Intercooler Pins. Installed new A/C and new Alternator Belts, 1 ea PN 37A19773-382, 1 ea PN 37A19773-464 and 1 ea PN 37B19774-460. Installed new Throttle Bracket PN 89711-002 and new Lock Washers, as needed. Installed 1 new Barrel Nut PN 65614 and Screw in Left Front Baffle. Removed Play in Alternate Air Linkage, installed (1) new Bolt PN AN3-5, Nuts and Washers, as needed and adjusted Travel. Removed # 3 Cylinder Exhaust Stack, shipped to Aerospace Welding for repair, reinstalled with 1 new Turbo Gasket PN 78084, 1 new Nut PN STD2233 and 2 new Exh. Gasket PN

77611.Gaskets. Removed LH Turbo, shipped to Approved Turbo for Overhaul and reinstalled. Added Fire Sleeves PN 2650-6 to Mixture Cable, Left Side. Installed (2) New Bolts PN on Flapper Valves in Air Box. Accomplish 500 Hour Oil Cooler Flush, removed Oil Cooler, shipped to Drake Air, Inc. For Flushing and reinstalled. Installed 4 New Spark Plugs PN RHB36S. Re-timed Magnetos to 20 Degrees BTDC. Installed 1 new Induction Air Filter PN 561-020. Lubed and freed up Waste-Gate Butterfly. Installed 1 new RH Front Baffle PN 89759-002, 1 new Spacer PN 89731-005 and 1 new Bolt PN AN3-30A.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO 21677. AD's Researched THRU Rev. 2006.13

Signature

Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

CRS#ECWR470D

SUN AVIATION, INC., Vero Beach, FL (VRB)

Date: 10/26/06

Engine Log

N239CC

Hobbs: 793.5

Model: TIO-540-AE2A

Aircraft SN: 4636315

Engine TT: 793.5

SN: L-11012-61A

Date in service 10/08/2001

ACTT: 793.5

Removed LH and RH Magnetos, shipped to Maxwell Magnetos for inspection/repairs, reinstalled and timed to 20 degrees BTDC. Changed engine Oil & Filter, cut open and inspected the filter removed and no defects noted, installed 1 ea new Filter PN CH48103-1 and serviced with 10 Qts A/S 15W50 oil.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO 22102.

Signature



CRS#ECWR470D

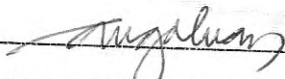
Sun Aviation, Inc, Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

Tail N239CC Date 07/15/07 Hours 8270

CHANGED OIL AND FILTER ADDED

10 QTS. OF AEROSPHELL 15W50. RAN ENGINE

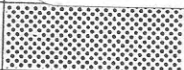
AND CHECK FOR OIL LEAK.



Albert A Angoluan 2857040 A&P

Switlik Aviation Maintenance Inc Fort Myers FL 239-936-3666

Total To
Carry Forward



SUN AVIATION, INC. Vero Beach, FL (VRB)

Date: 08/09/07

Hobbs: 887.9

ETT: 887.9

Engine

Model: LTIO540AE2A

N239CC

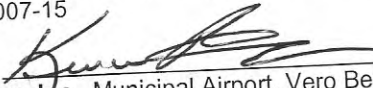
SN: L-11012-61A

No.


Accomplished an annual inspection IAW FAR 43, Appendix "D", using the Piper PA46-350P 100 hour inspection report. Accomplished Engine compressions: 1) 76/80, 2) 77/80, 3) 76/80, 4) 77/80, 5) 78/80, 6) 78/80. Accomplished an oil and filter change and inspected the filter removed. Serviced with 12 Qts 15W50 oil and 1 CH48103-1 filter. Accomplished AD 84-26-02 by inspection of the paper induction air filters, no defects noted, Next due replacement 1254.4 hours. Accomplished AD 99-15-04R1 by checking the TIT probe, no defects noted, next due replacement 1004.4 hours. Accomplished AD 2002-26-01 by inspecting the fuel injector lines, no defects noted. Accomplished Lyc. SB521 by inspecting the exhaust slip joints for proper engagement and marmom flange joint at transition inlet, no defects noted. Accomplish SB1012 IAW LYC. SB 531 by inspecting the left turbo, no defects noted. C/W AD 2003-14-03 - Lear/Romec fuel pump inspection N/A, fuel pump has M on PN. Reinstalled screw on #3 cylinder rocker corner. Replaced all 6 rocker box cover gasket with new. Adjusted oil pressure adjustment screws. Replaced right turbocharger with overhauled unit, PN 46C19839 SN: ACD46689. Tightened clamps on all Rocker box hose drains and checked tubing connections. Reset exhaust. Rerigged alternate air door and repaired linkage. Tightened A/C and alternator compressor belts. Cleaned Wastegate butterfly. Replaced two spark plugs. Retimed right and left magnetos to 20 degrees BTDC. Accomplished SB1180A - V-band exhaust coupling inspection, no defects noted.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO# 23244 AD's researched thru Rev. 2007-15

Signature:

 CRS # ECWR470D
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
<p>SUN AVIATION, INC., Vero Beach, FL (VRB) Date: 10/04/07 Engine Log N 239CC Hobbs: 895.9 Model: TIO540-AE2A Aircraft SN: 4636315 Eng.TT: 895.9 SN: L-11012-61A ACTT: 895.9</p> <p>Tightened rocker box drain tubes and torqued case half bolts.</p> <p>MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with applicable aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file at the repair station office, WO # 23665 .</p> <p>Signature  CRS # ECWR470D Sun Aviation, Inc., Municipal Airport, Vero Beach, FL 32961 (772) 562-9257</p>				
Total To Carry Forward				

and Remarks	Signature	Certificate No.
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**Supplemental Log Book Entry
Engine**

Reg: N239CC


Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 12/11/2007

Hobbs: 944.5

Changed oil and filter, refilled with 11 quarts of Exxon Elite 20W/50 Oil. Oil analysis taken. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Steven J. Van Antwerp 261511091 A&P


ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

**Supplemental Log Book Entry
Engine**

Reg: N239CC**Model: TIO-540-AE2A****S/N: L-11012-61A****Date: 02/22/08****Hobbs: 985.0**

Changed oil and filter, refilled with 11 quarts of Exxon Elite 20W/50 Oil. Oil analysis taken. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Found Rocker Covers loose and missing screws. Found Crankcase Vent misaligned. Tightened and torqued Rocker Covers Screws and replaced missing screws. Realigned Crankcase Vent. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**



Steven J. Van Antwerp 261511091 A&P

Carry Forward

and Remarks	Signature	Certificate No.
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**Supplemental Log Book Entry
Engine**

Reg: N239CC

Model: TIO-540-AE2A

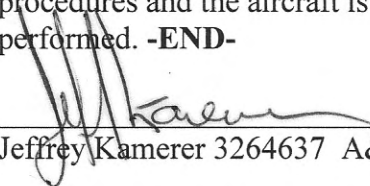
S/N: L-11012-61A

Date: 06/05/08

Hobbs: 1043.6

Changed oil and filter, refilled with 10 quarts of Exxon Elite 20W/50 Oil. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time.

This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**



Jeffrey Kameron 3264637 A&P

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ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Supplemental Log Book Entry Engine

Reg: N239CC **Model: TIO-540-AE2A** **S/N: L-11012-61A**
Date: 07/31/08 **Hobbs: 1103.6**

Changed oil and filter, refilled with 10 quarts of Exxon Elite 20W/50 Oil. Oil Analysis taken. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


 Steven J. Van Antwerp 261511091 A&P

Total To Carry Forward				

**Supplemental Log book entry
Annual Engine**

Reg: N239CC

Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 08/28/08

Hobbs: 1123.8

ENGTT: 1123.8

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable **AD's thru 2008-17. AD08-08-17**, N/A by Engine Model Number and RayJay Turbo's Installed. **C/W AD08-14-07** by Inspection IAW SB342E. Next Due 1223.8. Compression Test Results: 1>78/80, 2> 77/80, 3>78/80, 4>77/80, 5>78/80, 6>76/80. Removed #5 Cylinder and found broken Oil Control Ring, delivered to Tropic Airpower. Reinstalled #5 Cylinder following IRAN by Tropic Airpower. Remove and replace worn Upper Deck Engine Cylinder Hoses on #1, #3 and #5 Cylinders with new P/N#LW18724. Performed ground run and engines operated normally and no leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**


Steven J. Van Antwerp 2615110911A

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Supplemental Log Book Entry Engine

Reg: N239CC	Model: TIO-540-AE2A	S/N: L-11012-61A
Date: 10/07/08	Hobbs: 1133.9	

Performed Compression Check on #3 Cylinder 77/80, Cleaned #1,#3,#5 Fuel Injectors and Upper Deck Fuel Injector Line. Performed engine ground run and No fuel leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


 Steven Van Antwerp 261511091 A&P

Total To Carry Forward				

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Supplemental Log Book Entry Engine

Reg: N239CC	Model: TIO-540-AE2A	S/N: L-11012-61A
Date: 10/07/08	Hobbs: 1133.9	

Performed Compression Check on #3 Cylinder 77/80, Cleaned #1,#3,#5 Fuel Injectors and Upper Deck Fuel Injector Line. Performed engine ground run and No fuel leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


 Steven Van Antwerp 261511091 A&P

Total To Carry Forward				

and Remarks	Signature	Certificate No.
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**Supplemental Log Book Entry
Engine**

Reg: N239CC
Date: 12/01/08

Model: TIO-540-AE2A
Hobbs: 1156.7

S/N: L-11012-61A

Changed oil and filter, refilled with 11 quarts of Exxon Elite 20W/50 Oil.. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Steven J. Van Antwerp 261511091 A&P

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ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			

Supplemental Log Book Entry Engine

Reg: N239CC

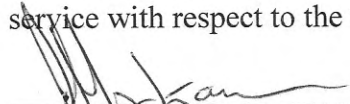
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 02/03/09

Hobbs: 1176.4

Changed oil and filter, refilled with 11 quarts of Exxon Elite 20W/50 Oil. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**



 Jeffrey Kamerer 3264637 A&P

Total to Carry Forward			
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and Remarks	Signature	Certificate No.
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**Supplemental Log Book Entry
Engine**

Reg: N239CC

Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 02/09/09

Hobbs: 1183.3

AD2009-02-03 Fuel Injector Hex Plug Gasket, N/A by No Overhaul or Service since August 22, 2006. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Steven J. Van Antwerp 261511091 A&P

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ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Supplemental Log Book Entry Engine

Reg: N239CC

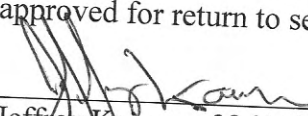
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 05/28/09

Hobbs: 1210.8

Changed oil and filter, refilled with 11 quarts of Aeroshell 15W/50 Oil. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft approved for return to service with respect to the work performed. **-END-**


 Jeffrey Kamerer 3264637 A&P

Total To Carry Forward				


**Supplemental Log book entry
Annual Engine**

Reg: N239CC
Date: 08/28/09

Model: TIO-540-AE2A
Hobbs: 1287.7

S/N: L-11012-61A
ENGTT: 1287.7

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable **AD's thru 2009-18. AD08-14-07**, C/W by Inspection IAW SB342E. **Next Due 1387.7**. Compression Test Results: 1>78/80, 2> 76/80, 3>75/80, 4>76/80, 5>75/80, 6>77/80. Changed oil and filter, refilled with 12 quarts of Aeroshell 15W/50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new oil filter P/N#CH48103-3, inspected old oil filter for foreign matter and none found at this time. Remove and replace Propeller to gain access to replace Alternators and Air Conditioning Compressor Drive Belts. Air Conditioning Compressor Drive Belt replaced with new P/N#37B19774-460. Left and Right Alternator Belts replaced with new P/N#37A19773-464 and P/N#37A19773-382. Remove and replace Left and Right Magnetos with New Left Magneto P/N#6363 and Right Magneto P/N#6360. Performed ground run and engines operated normally and no leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**


Steven J. Van Antwerp 261511091 IA

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Supplemental Log Book Entry Engine

Reg: N239CC

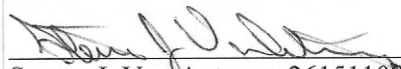
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 7/22/10

Hobbs: 1407.7

Changed oil and filter, refilled with 12 quarts of Aeroshell 15W/50 Oil. Performed oil analysis and submitted to Aviation Laboratories for testing. Installed new oil filter P/N#CH48103-1, inspected old oil filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


 Steven J. Van Antwerp 261511091 A&P IA

Total To Carry Forward				

and Remarks	Signature	Certificate No.
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**Supplemental Log book entry
Annual Engine**

Reg: N239CC	Model: TIO-540-AE2A	S/N: L-11012-61A
Date: 09/09/10	Hobbs: 1452.7	ENGTT: 1452.7

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable **AD's thru 2010-19**. Complied with **AD08-14-07** by Inspection IAW SB342F. **Next Due 1552.7**. Compression Test Results: 1>75/80, 2> 75/80, 3>75/80, 4>75/80, 5>76/80, 6>75/80. Changed oil and filter, refilled with 11 quarts of Aeroshell 15W/50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new oil filter P/N ES48103-3, inspected old oil filter for foreign matter and none found at this time. Removed and replaced Propeller to gain access to replace Alternators and Air Conditioning Compressor Drive Belts. Air Conditioning Compressor Drive Belt replaced with new P/N 37B19774-460. Left and Right Alternator Belts replaced with new P/N 37A19773-464 and P/N 37A19773-382. Removed and Replaced #1 and #6 Cylinder Fine Wire Spark Plugs with new, P/N RHB36S. Removed and Replaced #1 Cylinder and #5 Cylinder Intake Gaskets with new, P/N LYC71973. Removed for, and Reinstalled after Overhaul of Turbocharger Wastegate Valve, P/N 470954-007, S/N ECN13349 by Approved Turbo Components, WO#30240. Removed for, and Reinstalled after Overhaul of Turbocharger Wastegate Density Controller, P/N 481008-003, S/N ECN1304 by Approved Turbo Components, WO#30241. Removed and Replaced Exhaust Wastegate Gaskets with new, P/N's 75845, 78084, 06B19913 and 77611. Removed and Replaced Exhaust Wastegate Clamp with new, P/N LW12093-5. Removed for and

-----Continued on next page-----

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ENGINE LOG

-----Continued from previous page-----

Reinstalled after Overhaul of #3 Cylinder Riser, P/N 40B19827, W/O 135466, #1, #4, #5 Cylinder Adapter, P/N 40B19840, W/O 135467, #1, #4, #5 Cylinder Adapter, P/N 40B19840, W/O 135468, Right Engine Exhaust Transition, P/N 47C19845, W/O 135469, #2 Cylinder Riser, P/N 40B19841, W/O 135470, #4 Cylinder Riser, P/N 40B19842, W/O 135471, #1, #4, #5 Cylinder Adapter, P/N 40B19840, W/O 135472, #1, #4, #5 Cylinder Adapter, P/N 40B19840, W/O 135473, Left Engine Exhaust Transition, P/N 47C19847, W/O 135474, Right Engine Exhaust Crossover, P/N 40B19975, W/O 135475, Left Engine Exhaust Transition, P/N 47C19848, W/O 135476, Adapter Transition, P/N 40B19851, W/O 135477, by Aerospace Welding Inc., W/O's 135466-135477. Performed ground run and engines operated normally and no leaks found at this time. I certify that this Aircraft Engine has been inspected/repaired in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**


 Steven J. Van Antwerp 261511091 AP,IA

Total To Carry Forward				

and Remarks	Signature	Certificate No.
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**Supplemental Log Book Entry
Engine**

Reg: N239CC

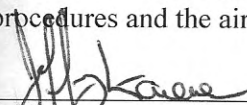
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 12/10/10

Hobbs: 1497.8

Removed #2 Cylinder P/N LW-12988, S/N 025116 and Replaced with Serviceable/Repaired #2 Cylinder Assembly, P/N LW-12988, S/N 57152-1. Removed Turbocharger, P/N 46C19839J, S/N ECL0374 and Replaced with Overhauled Turbocharger, P/N 466642-9005, S/N NCR00106. Changed Oil and Filter, refilled with 12 quarts of Aeroshell 20W50 Oil. Installed new Oil Filter P/N CH48103, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


 Jeffrey Kamerer, 3264637 A&P

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ENGINE LOG

Supplemental Log Book Entry
Engine

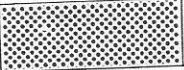
Reg: N239CC
Date: 03/02/11

Model: TIO-540-AE2A
Hobbs: 1532.9

S/N: L-11012-61A

Removed and reinstalled Left Turbocharger, P/N 466642-9005, S/N NCR00106 for inspection by Approved Turbo Components, Inc. Removed all Cylinder Assemblies and installed Overhauled P/N 12988, S/N's #1 - 57420, #2 - 57421-1, #3 - 57422, #4 - 57423, #5 - 57424-1, #6 - 57425, supplied by Certified Engines, Inc. W/O#35650. Changed Oil and Filter, refilled with 11 quarts of Phillips 20W50 XCII Oil. Installed new Oil Filter P/N CH 48103, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. -END-


Steven J. Van Antwerp 261511091, A&P, IA

Total To Carry Forward			
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**Supplemental Log Book Entry
Engine**

Reg: N239CC
Date: 05/03/11

Model: TIO-540-AE2A
Hobbs: 1554.5

S/N: L-11012-61A

Changed Oil and Filter, refilled with 11 quarts of Phillips XC 20W50 Oil. Installed new Oil Filter P/N CH 48103, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**



Jeffrey Kamerer, 3264637, A&P

**Supplemental Log Book Entry
Engine**

Reg: N239CC

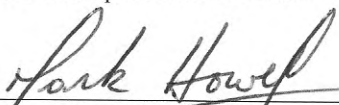
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 07/27/11

Hobbs: 1594.3

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N CH 48103, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Mark A. Howell, 3575906, A&P

Engine

Reg: N239CC

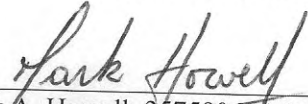
Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 08/26/11

Hobbs: 1635.1

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Installed new Oil Filter P/N CH 48103, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Mark A. Howell, 3575906, A&P

and Remarks	Signature	Certificate No
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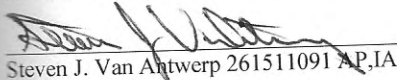
**Supplemental Log book entry
Annual Engine**

Reg: N239CC
Date: 10/28/11

Model: TIO-540-AE2A
Hobbs: 1663.6

S/N: L-11012-61A
ENGTT: 1663.6

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable AD's thru 2011-22. Complied with **AD08-14-07** by Inspection IAW SB342F. **Next Due 1763.6**. Complied with **AD11-06-10**, Turbine Inlet Temperature Indicators, by replacement of TIT Probe with new P/N 686-216 IAW SB995C. Next Due **1913.6 AD11-13-03**, N/A by Turbo-Charger has more than 50 hours TIS. **AD11-15-10**, N/A by Fuel Injector/Servo Diaphragm P/N NOT installed. Compression Test Results: #1>78/80,# 2>78/80,# 3>77/80,# 4>77/80,# 5>77 /80, #6>78 /80. Removed and Replaced one spark plug with new Fine Wire Spark Plug, P/N RHB38S. Reset Right Magneto timing to 20 degrees BTDC. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil and 1 pint of Cam-guard. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48103-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**


Steven J. Van Antwerp 261511091 AP,IA

ENGINE LOG

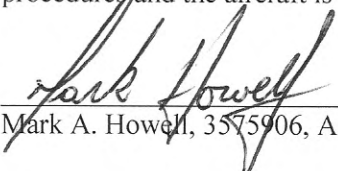
Supplemental Log Book Entry Engine

Reg: N239CC
Date: 03/13/12

Model: TIO-540-AE2A
Hobbs: 1699.0

S/N: L-11012-61A

Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N AA48103-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**



Mark A. Howell, 3575906, A&P

Total To Carry Forward			

**Supplemental Log Book Entry
Engine**

Reg: N239CC


Model: TIO-540-AE2A

S/N: L-11012-61A

Date: 05/23/12

Hobbs: 1758.1

Changed Oil and Filter, refilled with 10 quarts of Aeroshell 15W50 Oil and one can of Cam-guard. Installed new Oil Filter P/N AA48103-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Charles Alvarez, 3376352, A&P

ENGINE LOG

Supplemental Log Book Entry Engine

Reg: N239CC

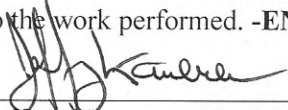
Model: TIO-540-AE2A

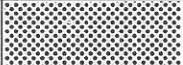
S/N: L-11012-61A

Date: 07/18/12

Hobbs: 1800.0

Changed Oil and Filter, refilled with 10 quarts of Aeroshell 15W50 Oil and one can of Cam guard. Installed new Oil Filter P/N AA48103-2, inspected old Oil Filter for foreign matter and none found at this time. Removed and Replaced #1 and #3 Cylinder Exhaust Gaskets with new, P/N 77611. Removed and Replaced Exhaust Crossover Pipe Heat Shield Clamps with new, P/N LW15592-8E24. Performed engine ground run and no oil leaks found at this time. This maintenance was performed in accordance with the manufacturer's instructions and procedures and the aircraft is approved for return to service with respect to the work performed. **-END-**


Jeffrey Kamerer, 3264637, A&P

Total To Carry Forward				

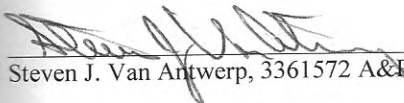
Supplemental Log book entry
Annual Engine

Reg: N239CC
Date: 10/10/12

Model: TIO-540-AE2A
Hobbs: 1848.2

S/N: L-11012-61A
ENGTT: 1848.2

Performed **Annual Inspection** in accordance with FAR Part 43, Appendix "D". Complied with all applicable **AD's thru 2012-20**. Complied with **AD11-26-04** Fuel Injection Lines, by Inspection IAW MSB#342F. Next Due **1948.2** Complied with **AD11-06-10**, Turbine Inlet Temperature Indicators, by replacement of TIT Probe with new P/N 686-216 IAW SB995C. Next Due **1913.6 AD12-03-06**, AFS Fuel Servo Diaphragm, N/A by Fuel Injector Diaphragm P/N not installed and not listed in AFS-SB6. Compression Test Results: #1>79/80,# 2>78/80,# 3>77/80,# 4>77/80,# 5>78 /80, #6>79/80. Removed and Replaced all Lower Spark Plugs with new Fine Wire Iridium Spark Plugs, P/N URHB36S. Changed Oil and Filter, refilled with 11 quarts of Aeroshell 15W50 Oil and 1 pint of Cam-guard. Performed Oil Analysis and submitted to Aviation Laboratories for testing. Installed new Oil Filter P/N CH48103-2, inspected old Oil Filter for foreign matter and none found at this time. Performed engine ground run and no oil leaks found at this time. I certify that this Aircraft Engine has been inspected/repared in accordance with an **Annual Inspection** and has been determined to be in an airworthy condition and that work described above was accomplished and inspected in accordance with current FAA regulations and is approved for return to service. **-END-**


Steven J. Van Antwerp, 3361572 A&P IA

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

ROCKET
ENGINEERING CORP.

6427 E. Rutter Rd.
Felts Field
Spokane, WA 99212

REG: 239CC

DATE: 11/19/2012

MODEL: TIO-540-AE2A

HOBBS: 1875.4

S/N: L-11012-61A

ENGTT: 1875.4

**THIS ENGINE WAS REMOVED FROM THE AIRFRAME FOR TURBINE CONVERSION.
CYLINDER COMPRESSIONS: #1 79/80; #2 79/80; #3 78/80; #4 79/80; #5 78/80; #6 79/80.
NO WORK WAS PERFORMED ON THE ENGINE.**



STEVE NITCHMAN 3247177 A&P

Total To Carry Forward				

MAINTENANCE RECORD F.A.R. 43.9

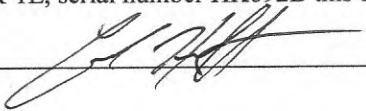
Make: MAKO N580L LLC

Model: NLA-450

Serial: NLA-450-1001

TTAF: 0.0

Installed engine, Ly-Con Experimental Engine AEIO-540-EXP, serial number L-51198-03 this date. Installed propeller, HC-13YR-1E, serial number HK692B this date.

Conrad Huffstutler 

Date: 7/3/17

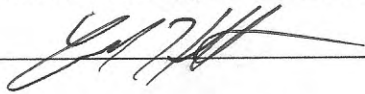
Make: MAKO N580L LLC

Model: NLA-450

Serial: NLA-450-1001

TTAF: 0.0

I certify that I have constructed this aircraft according to plans and kit instructions delivered by Lancair. I certify that the ELT in this aircraft has been inspected IAW FAR 91.207(d) and determined airworthy this date.

Conrad Huffstutler 

Date: 8/3/17

DATE 6/30/2017 TTAF 0

I HAVE INSPECTED THIS AIRCRAFT IN ACCORDANCE WITH FAR 43 APPENDIX "D" AND DETERMINE IT TO BE IN A CONDITION FOR SAFE OPERATION.

 BUILDER