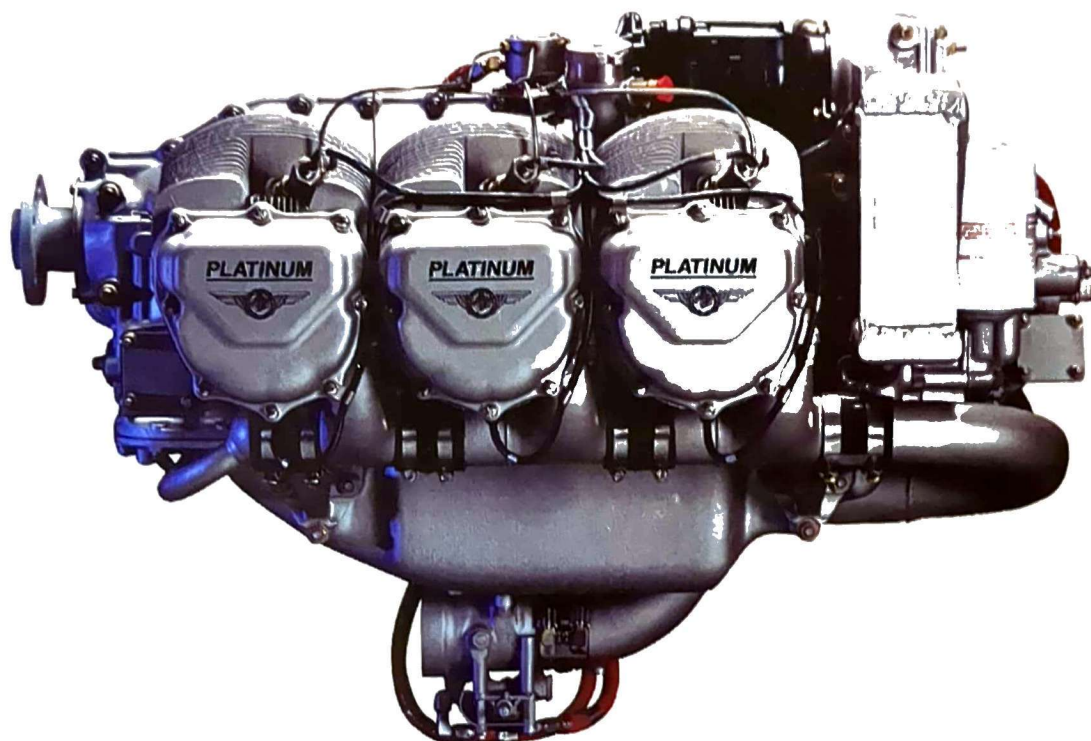
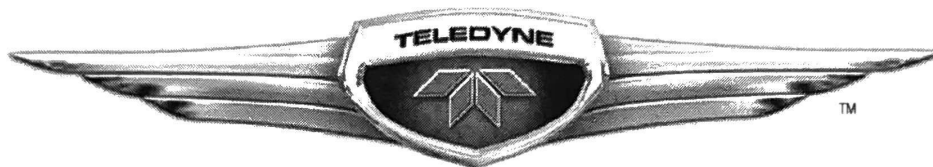


# PLATINUM ENGINE LOG BOOK



## CONTINENTAL MOTORS

# PLATINUM ENGINE LOG BOOK



## CONTINENTAL MOTORS

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



**Teledyne Continental Motors, Inc.**  
A Teledyne Technologies Company

Printed: 01/14/2007

This engine model 10550N46 , Serial No. 690871 was manufactured on 01/14/2007  
by Teledyne Continental Motors in accordance with approved design data and the applicable requirements  
of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all  
changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



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**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508

### **Service Information**

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.


### **Engine Returns**

All returned engines are to be shipped with this log book Directly to:

**Teledyne Continental Motors  
Abbeville Industrial Park  
Suite 159  
Abbeville, AL 36310**


Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

THE FOLLOWING SUPPLEMENTAL TYPE CERTIFICATE NUMBER HAS BEEN INSTALLED ON THIS ENGINE SE10589SC

CDC  on Feb 21 / 2007.  
 Cirrus Design Corporation Duluth, MN USA  
 PC# 338CE


Reg: N90MG Make: SR22 S/N: 2380	Date: Feb 28, 2007 Hobbs: 19.4 Flight Hrs: 16.6
---------------------------------------	---

Removed oil and filter. Added 8 Qts Phillips Type M, 20W50 and installed Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No discrepancies noted. Aircraft returned to service. -END-

  
 A&P 2726736

Reg: N90MG Make: SR22 S/N: 2380	Date: March 14, 2007 Hobbs: 31.7 Flight Hrs: 30.0
---------------------------------------	---

Removed oil and filter. Added 8 Qts Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No discrepancies noted. Aircraft returned to service. -END-

  
 A&P 2726736

MARCH 8, 2007 Hobbs: 23.4 FLIGHT HRS: 20.9

INSTALLED REIFF PREHEAT SYSTEMS & HOTSTRIP OIL SUMP HEATING SYSTEM  
 FAA-PMA APPROVED, OPERATIONAL CHECK OK. J.P. PASE/2007/A&P 2224148



Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward  $\longrightarrow$

ENGINE MODEL 10-550-N  
(42)  
ENGINE S/N 690871  
REG. NO. 90MG  
WORK ORDER  
8943-05-2007



**Cirrus Design Factory Service Center**  
Repair Station No. YD5R855Y  
4515 Taylor Circle  
Duluth, MN 55811  
Phone: 218-788-3101

DATE 5/21/2007  
A/C TSN 90.4  
ENG TT 90.4  
HOBSBS 90.4

**Engine Entries**

(30) Changed engine oil and filter p/n 50857-001, serviced engine with 8 quarts of Aeroshell 15W50 engine oil. Performed particulate inspection on drain plug & old filter, no discrepancies noted. Retained oil sample to be sent out for analysis. Performed operational and leak checks with satisfactory results. All work was accomplished IAW CDC AMM 12-10.

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YD5R855Y.

DATE: 5/21/2007

SIGNED: *Steve Wilhelm*  
Steve Wilhelm  
Certified Repair Station No. YD5R855Y

Work Order: 8943-05-2007  
Printed by EBis 3 (datcomedia.com)

Reg: N90MG Date: June 27, 2007  
Make: SR22 Hobbs: **127.0**  
S/N: 2380 Flight Hrs:  
  
Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No discrepancies noted. Aircraft returned to service. -END-  
  
*Alison*  
A&P 2726736

Reg: N90MG Date: July 25, 2007  
Make: SR22 Hobbs: 158.0  
  
Removed oil and filter. Added 8 Qts Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No discrepancies noted. Aircraft returned to service. -END-  
  
*Alison*  
A&P 2726736

**North East Aero**  
**97 Hangar RD Montgomery NY, 12549 (845) 457-1184**  
**Cirrus Design SR22 N90MG S/N 2380**  
**Hobbs Time: 190.7 Flight Timer: 190.6**  
**S/N: 690871**

13, September 2007  
TCMIO-550N

1. Drained oil and retained sample for analysis. Removed filter cut and inspected with no contamination noted. Installed new filter saftied and added 8qts Exxon Elite 20W-50 oil.
2. Adjusted absolute pressure controller to achieve 29.5 inches of manifold pressure at 2700RPM.

*Run up and leak check satisfactory*  
**James T. Markey 31668721A** *James T. Markey*

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward	→			

## ENGINE

## LANMAR AVIATION

WO # 2489

145 TOWER AVENUE GROTON NEW LONDON AIRPORT GROTON, CT 06340  
FAA Approved Repair Station # L4AR428X Phone: 860-446-8621 Fax: 860-446-0329

Registration #	Eng. Make / Model	Eng. Serial #	Eng. TT	Hr. Mtr.
N90MG	IO-550-N7	690871	233.4 hrs.	233.4 hrs.

1. Changed oil and serviced with Exxon Elite 20W-50.
2. Inspected oil filter. No defects found
3. Installed a new CH48108-1 filter.
4. Engine run and leak check satisfactory.

THE AIRCRAFT ENGINE, IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE AT THIS REPAIR STATION UNDER WORK ORDER NO. 2489, DATED 10/17/2007.

SIGNED

  
John M. Locke

## ENGINE

## LANMAR AVIATION

WO # 2662

145 TOWER AVENUE GROTON NEW LONDON AIRPORT GROTON, CT 06340  
FAA Approved Repair Station # L4AR428X Phone: 860-446-8621 Fax: 860-446-0329

Registration #	Eng. Make / Model	Eng. Serial #	AFTT	Engine TT
N90MG	IO-550N 46	690871	266.7 hrs.	266.7 hrs.

1. Completed all engine Annual Inspection items in accordance with Chapter 5-20 of Cirrus SR 22 Airplane Maintenance Manual, p/n 13773-001, dated Apr. 16, 2007.
2. Changed oil and serviced with Aeroshell 80 W Mineral.
3. Inspected oil filter. No defects found.
4. Installed a new CH48108-1 filter.
5. Checked compression; Cyl. # 1-<sup>75</sup>/<sub>80</sub>, # 2-<sup>50</sup>/<sub>80</sub>, # 3-<sup>72</sup>/<sub>80</sub>, # 4-<sup>72</sup>/<sub>80</sub>, # 5-<sup>75</sup>/<sub>80</sub>, # 6-<sup>72</sup>/<sub>80</sub>.
6. Removed and reinstalled the # 2 Cyl for repair by Teledyne Mattituck Services, Inc., CRS # T10R507Y, under WO #61934, dated 2/26/2008. Installed the cylinder in accordance with TCM IO-550 Permold Series Overhaul Manual, Form X30568A, and torqued hardware per Fig. 19-23.
7. Replaced the following exhaust system parts in accordance with Tornado Alley Turbo Inc., M.M. p/n report 215-10:
  - a. ETI-G2-110-R-1 – Tail Pipe Assy.
  - b. ETI-G2-600-116 – Turbo Support and ETI-G2-600-117 – Bolt.
  - c. ETI –G2-600-103-1 – Turbo Bracket and LC085H03S – Turbo Support Springs.
  - d. ETI-G2-600-120 – Turbo Support Bracket.
  - e. ETI-G2-20-12, -16, and -17 – Heat Shields.
8. Installed a new alternate air door switch, p/n ETI-G2-703-S.
9. Installed a new #2 cyl. Bottom ign. lead, p/n 10-400401-78.
10. Re-routed ign. leads to provide chafe protection.
11. Installed a new Reiff Pre-heat Stm. crankcase heater pad.
12. S.A. 08-03, Rev. 0, complied with modifying the waste gate outlet tube in accordance with Tornado Alley Turbo S.B. TAT S.B. 08-01.
13. AD's checked thorough bi-weekly 2008-4 for applicability.
14. Completed an Operational Inspection in accordance with M.M. Chapter 5-30.

IS. AD 2007-16-10 N/A BY INSTALLATION DATE.

THE AIRCRAFT ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE AT THIS REPAIR STATION UNDER WORK ORDER NO. 2662, DATED 3/05/2008.

SIGNED

  
Paul R. Gilman

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

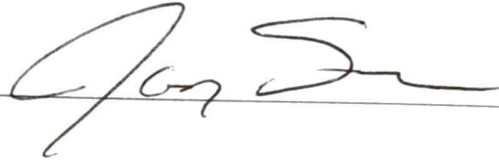
Brought Forward

Reg: N90MG  
Hobbs: 290.8

Date: April 16, 2008  
Flight Hobbs: 288.6

Performed oil change. Drained oil and removed oil filter. Installed Champion oil filter P/N CH48108 and added 8 Quarts Exxon Elite 20W-50. Ran aircraft to check for leaks no leaks noted. Aircraft returned to service.-END-

A&P 2726736



## ENGINE

## LANMAR AVIATION

WO # 2837

145 TOWER AVENUE GROTON NEW LONDON AIRPORT GROTON, CT 06340  
 FAA Approved Repair Station # L4AR428X Phone: 860-446-8621 Fax: 860-446-0329

Registration #	Eng. Make / Model	Eng. Serial #	Eng. TT	Tach. Time
N90MG	IO-360ES-6B	690871	326.3 hrs.	326.3 hrs.

1. Changed oil and serviced with Exxon Elite 20W-50.
2. Inspected oil filter. No defects found
3. Installed a new CH48108-1 filter.
4. Reattached loose Reiffe heat pads.
5. Engine run and leak check satisfactory.

THE AIRCRAFT ENGINE, IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE AT THIS REPAIR STATION UNDER WORK ORDER NO. 2837, DATED 6/19/2008.

SIGNED



Paul R. Gilman

ENGINE N90MG 11-10-2008 0385.2 TIME IN SERVICE METER

Drained engine oil. Inspection of oil filter satisfactory. Installed 8 qts Exxon Elite 20W-50 and engine oil filter (AA48108). Run-up and leak check satisfactory. END. E.A. STANLEY E.A. Stanley A&P3208560

Reg: N90MG  
Make: Cirrus SR22

Date: 11/26/2008  
Hobbs: 416.6

Removed aircraft sparkplugs. Installed 12 new Champion RHB32S fine wire electrode sparkplugs. Ran aircraft and performed operational check. No discrepancies noted. Aircraft returned to service. -END-



A&P 2726736



# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

Brought F

ENGINE MODEL:  
IO550N27  
ENGINE S/N: 690871  
REG. NO. N90MG  
WORK ORDER: 877

### Advanced Aircraft Services LP

500 Airport Rd. Suite D  
Lititz, PA 17543  
Phone: 717-735-5179

DATE: 3/26/2009  
A/C T591: 412.2  
E/H3 TT: 412.2  
HOBBS: 439.9

### Engine Entries

Completed an Annual Inspection using the Cirrus AMM check list ch. 5-20.... Complied with SIL 97-3 Fuel System Adjustment... Replaced the left and right cylinder fuel drain manifolds.... Compressions: #1 73/80, #2 74/80, #3 74/80, #4 75/80, #5 75/80, #6 76/80. Drained the engine oil and replaced filter, Serviced engine with 7 qts of Exxon Elite 20/50W. Cut open filter and inspected, No contamination found at this time. Performed oil analysis. Megged the ignition harness, cleaned, gapped, tested all plugs, ultrasonic cleaned all fuel nozzles, checked magneto timing, cleaned and treated the induction air filter, Ground run and leak checked good. All AD's current thru bi-weekly 09-07-~~END~~

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 3/26/2009

SIGNED: 

Work Order: 877

Richard A. Barnhart II, IA: 3124994

Printed by EBis 3 (datcomedia.com)

Reg: N90MG  
Make: SR22  
Flight: 457.1

Date: 06/25/2009  
Hobbs: 491.3

Performed oil change. Removed oil and filter. Added 8 Qts of Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108. Ran aircraft and checked for leaks. No discrepancies noted. Aircraft returned to service. -END-

  
A&P 2726736

Reg: N90MG  
Flight: 487.1

Date: 09/23/2009  
Hobbs: 548.0

Performed oil change. Removed oil and filter. Added 8 Quarts Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108. Ran aircraft and checked for leaks. No discrepancies noted. Aircraft returned to service. -END-

  
A&P 2726736

Reg: N90MG  
Make: SR22  
S/N: 2380

Date: Nov 20, 2009  
Hobbs: 580.2  
Flight Hrs: 533.2

Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No discrepancies noted. Aircraft returned to service. -END-

  
A&P 2726736

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
<b>Engine Service and Maintenance Record</b>				
Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins				

Reg: N90MG  
 Make: SR22  
 S/N: 2380

Date: Dec 18, 2009  
 Hobbs: 587.6  
 Flight Hrs: 538.9



300 Airport Road  
 Ada, Oklahoma 74820  
 Phone (580) 332-3510  
 Fax (580) 332-4577  
 www.taturbo.com

Date: 2/1/2010

\*\*\*\*\*CERTIFICATE OF CONFORMANCE\*\*\*\*\*

Newly Manufactured Parts

TATI Ship Doc 4276

Description of Unit : SR22 L/H Lateral Support Bracket Kit

P/N (s): 22-6280001 S/N: N/A

Drawing No. (If Applicable) 22-6280001 Rev: N/A W/O 20072

Customer P.O. : 105283

This part is a subcomponent of an FAA PMA part / assembly

The production approval holder, Tornado Alley Turbo Inc., pursuant to agreement with Engine Technologies Inc., hereby certifies that the parts described above, conform to the manufacturing

1.7  
 Appendix  
 (70/80 5)  
 removed  
 148108-1.  
 installed  
 cylinders  
 installed.  
 Replaced  
 oil temp  
 and using  
 hour mag  
 performed  
 factory. I  
 to be in

ENGINE N90MG 03-27-2010 0556.0 TIME IN SERVICE METER  
TCM - m/n IO-550-N46B - s/n 650871

Dra  
Eli  
ENC

Removed two fuel nozzles (#1 size 19B-G and #6 size 19B-C) originally installed in accordance with STC \$SE10589SC. Installed replacement nozzles (#1 size 19B-E and #6 size 19B-D) per GAMI Inc. "Manufacturer Release Certificate" dated 03-22-10. E.A. Stanley A&P3208560

brought

ENGINE N90MG 04-16-2010 0570.4 TIME IN SERVICE METER  
TCM m/n IO-550-N46B - s/n 650871

Found tip of TIT probe disintegrated. Installed new probe (Alcor p/n 86245 - date 03-26-09). END. E.A. Stanley E.A. Stanley A&P3208560

Jeff Savko

manual. Compression check. #1-10/00 #2-10/00 #3-11/00 #4-10/00 #5-12/00 #6-14/00.  
Ultrasonically clean fuel injectors. Clean and gap spark plugs. Re torque rocker cover screws.

ENGINE N90MG 09-29-2010 0693.9 TIME IN SERVICE METER  
TCM m/n IO-550-N46B - s/n 650871

Installed new starter drive adapter (642083-1A2). See 8130-3 from TCM dated 09-28-10 form tracking number 83878. Removed Iskra starter (TCM p/n 656181D24V, s/n 06 247 0120). Installed new SkyTec starter (m/n C24ST5 s/n 4C5-281003). Weight change negligible. Run-up and leak check satisfactory. END. E.A. Stanley E.A. Stanley A&P3208560

IA 2224148

Reg: N90MG  
Make: Cirrus SR22

Date: January, 20, 2011  
Hobbs: 849.2  
Flt: 757.9

Performed oil change. Removed oil and filter. Installed Champion oil filter P/N CH48108 and added 8 quarts Exxon Elite 20W-50. Removed lower spark plugs and inspected, found satisfactory. Reinstalled sparkplugs and torqued. Ran engine and checked for leaks. No discrepancies noted. -END-



A&P 2726736

Reg: N90MG  
Make: Cirrus SR22

Date: January, 20, 2011  
Hobbs: 849.2  
Flt: 757.9

Removed and replaced right wing strobe assembly.  
Resecured aft copilots window trim.  
Serviced all tires to proper psi.

Strobe assembly P/N 36-0050705-00, Cirrus P/N 50909-001



A&P 2726736

Date

Total Time

Time Since  
Last Overhaul

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

Hrs.

Min.

Hrs.

Min.

Brought Forwar

Reg: N90MG  
Make: SR22  
S/N: 2380

Date: May 27, 2011  
Hobbs: 943.9  
Flight Hrs: 839.0

Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed  
Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No  
discrepancies noted. Aircraft returned to service. -END-

A&P 2726736



Reg: N90MG  
Make: SR22  
S/N: 2380

Date: 08/2/2011  
Hobbs: 980.7  
Flight Hrs: 872.4

Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed  
Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No  
discrepancies noted. Aircraft returned to service. -END-

A&P 2726736



<u>Reg</u>	<u>Date</u>	<u>Make</u>	<u>Hobbs</u>	<u>Flight</u>
N90MG	10/18/2011	Cirrus SR22	1008.0	900.6

-Performed oil change. Added 8 Quarts Exxon Elite 20W-50 and installed Champion oil filter P/N  
CH48108. Ran aircraft to check for leaks.-END-

Jeff Savko A&P 2726736



Reg: N90MG  
Make: SR22  
S/N: 2380

Date: 12/30/2011  
Flight: 951.6  
Hobbs:1055.5

-Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed  
Champion oil filter P/N CH48108. Ran aircraft to check for leaks. No  
discrepancies noted.  
-Removed, cleaned and gapped sparkplugs.  
-Aircraft returned to service. -END-

A&P 2726736





<u>Reg</u>	<u>Date</u>	<u>Engine Make/Model</u>	<u>S/N</u>	<u>Hobbs</u>	<u>FLT Time</u>	<u>TSMOH</u>
N90MG	03/10/2012	Continental IO-520-N(42)	690871	1097.6	995.7	1097.6

Brought

I certify that this **Engine and Propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition. The following work was performed per Cirrus SR22 maintenance manual and FAR 43 Appendix D.

- Compression check: #1 71/80, #2 71/80, #3 70/80, #4 70/80, #5 73/80, #6 74/80.
- Performed oil change. Removed oil and filter. Cut open filter and inspected. Took oil sample to send out for analysis. Added 8 Quarts Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108.
- Removed sparkplugs, cleaned gapped and rotated. Reinstalled sparkplugs and torqued to spec.
- Degreased engine.
- Retoqued rocker cover screws.
- Retorqued intake manifold hose clamps.
- Removed Challenger air filter, cleaned and reoiled per Challenger air filter maintenance instructions. Reinstalled air filter.
- Lubricated engine controls and turbocharger Watergates.
- Ultrasonic cleaned fuel injectors.
- Stop drilled crack on left side engine baffle.
- Retimed Magnetos to engine.
- Ground ran engine to check for leaks. No discrepancies noted.
- AD 2012-03-06 Fuel Servo Diaphragm N/A affected P/N not installed. AD 2011-25-51 Starter Adapter Gear Shaft N/A. Starter adapter not replaced between Jan 1, 2011 thru Nov 2011. AD 2010-11-04 Hydraulic Lifters N/A. All AD's were checked to dated.
- Aircraft released for service. -END-

Jeff Savko IA 2726736



Reg: N90MG	Date: 06/09/2012
Make: SR22	Hobbs: 1132.9
S/N: 2380	Flight Hrs: 1035.1

- Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108. Cut open oil filter to check for contaminants. Found satisfactory.
- Ran aircraft and leak checked engine. Found satisfactory. Aircraft returned to service. -END-

A&P 2726736



Reg: N90MG	Date: 10/18/2012
Make: SR22	Hobbs: 1177.7
S/N: 2380	Flight Hrs: 1085.9

- Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108.
- Removed fuel pump. Installed overhauled fuel pump P/N ETI-SR22-2-12 S/N GP5353 with new gasket P/N 649982. Rugged control and set fuel flow and manifold pressure in accordance with Tornado Alley Turbo Inc continued airworthiness manual 22-6460004 rev C dated 22 Sept 2011.
- Installed new wastegate to slave wastegate pulley bracket support P/N 22-5600003.
- Leak checked engine. Found satisfactory. Aircraft returned to service. -END-

A&P 2726736



Reg: N90MG  
Make: SR22  
S/N: 2380

Date: 12/20/2012  
Hobbs: 1206.1  
Flight Hrs: 1118.1

**ance Record**  
es, Special Inspections,

Date

Brought For

-Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108. Cut open oil filter to check for contaminates. Found satisfactory.  
-Ran aircraft and leak checked engine. Found satisfactory.  
Aircraft returned to service. -END-




A&P 2726736

<u>Reg</u>	<u>Date</u>	<u>Engine Make/Model</u>	<u>S/N</u>	<u>Hobbs</u>	<u>FLT Time</u>	<u>TSMOH</u>
N90MG	04/01/2013	Continental IO-520-N(42)	690871	1253.1	1169.6	1253.1

I certify that this **Engine and Propeller** has been inspected in accordance with an **Annual Inspection** and was determined to be in airworthy condition. The following work was performed per Cirrus SR22 maintenance manual and FAR 43 Appendix D.

- Compression check: #1 73/80, #2 73/80, #3 70/80, #4 71/80, #5 70/80, #6 70/80.
- Performed oil change. Removed oil and filter. Cut open filter and inspected. Added 8 Quarts Exxon Elite 20W-50 and installed Champion oil filter P/N CH48108.
- Removed sparkplugs, cleaned gapped and rotated. Reinstalled sparkplugs and torqued to spec.
- Degreased engine.
- Replaced magneto pneumatic filter P/N 04-6700015.
- Replaced exhaust V band clamps P/N 11-1100023. Next due @ Hobbs 1703.1.
- Replaced wastgate clevis knuckle P/N 22-5600001 and associated hardware P/N MS20392-2C13, MS20392-1C13, retaining pin P/N AA55488-2.
- Retoqued rocker cover screws.
- Cleaned contacts on cannon plug manifold pick up.
- Retorqued intake manifold hose clamps.
- Removed Challenger air filter, cleaned and reoiled per Challenger air filter maintenance instructions. Reinstalled air filter.
- Lubricated engine controls and turbocharger Watergates.
- Retimed Magnetos to engine.
- Ground ran engine to check for leaks. No discrepancies noted.
- All AD's were checked to dated.
- Aircraft released for service. -END-



Jeff Savko IA 2726736

Reg: N90MG  
Make: SR22  
S/N: 2380

Date: 05/10/2013  
Hobbs: 1290.9  
Flight Hrs: 1211.4

-Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed Champion oil filter P/N CH48108. Cut open oil filter to check for contaminates. Found satisfactory.  
-Removed starter P/N C24ST5 S/N 4C5-281003. Installed new starter P/N C24ST5 S/N 4C5-141332. Weight and balance remains the same.  
-Ran aircraft and leak checked engine. Found satisfactory.  
Aircraft returned to service. -END-



A&P 2726736

**FAA - PMA**

Date	Total
	Hrs.
Brought Forward	

This tag certifies that Sky-Tec Model No. **C24ST5**  
 Serial No. **4C5-141332** was manufactured new on 12 Apr 2013  
 by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement  
 No. **6** per CFR14 Part 21 in accordance with Sky-Tec's  
 FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and  
 conforms to the relevant FAA-approved drawings. This part has been  
 determined to be airworthy.  
 For installation eligibility see [www.skytecair.com/eligibility.htm](http://www.skytecair.com/eligibility.htm)  
 Starter Installed on **N 90MG** by   
 (Aircraft) (Mechanic)


**enance Record**  
 tives, Special Inspections,

Starter Installed on **N 90MG** by   
 (Aircraft) (Mechanic)  
**AIP-2726736**

Form CC1108-1

Reg: N90MG Date: 10/22/2013  
 Make: SR22 Hobbs: 1336.4  
 S/N: 2380 Flight Hrs: 1261.9

-Removed oil and filter. Added 8 Qts Exxon Elite 20W50 and installed  
 Champion oil filter P/N CH48108. Cut open oil filter to check for contaminates.  
 Found satisfactory.  
 -Ran aircraft and leak checked engine. Found satisfactory.  
 Aircraft returned to service. -END-



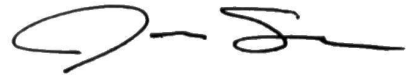
A&P 2726736

Reg: N90MG Date: 05/05/2014  
 Make/Model: IO-550-N46 Hobbs: 1392.3  
 S/N: 690871 FLT: 1319.8  
 Engine TSMO: 1392.3

I certify that this **Engine and Propeller** has been inspected in accordance with an **annual inspection** and was determined to be in airworthy condition. The following work was performed with the scope and detail of FAR Part 43 , appendix D, per Cirrus SR22 maintenance manual and Teledyne Continental maintenance manual.. The following was performed:

- Compression Check: #1 65/80, #2 74/80, #3 59/80, #4 72/80, #5 70/80, #6 70/80.
- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory.
- Replaced induction air filter P/N 33-2022 filter.
- Lubricated engine controls and turbocharger wastegates.
- Cleaned, gapped and rotated sparkplugs
- Retoqued all rocker cover gaskets.
- Retorqued all induction clamps.
- Degreased engine.
- Removed magnetos P/N 10-500556-101 left S/N D03CA063 right S/N D03CA059 and sent out to Quality Aircraft Accessories Inc (QYIR334Y) for 500 Hour inspection. Filled 8130's into aircraft records Dated 30/APR/2014 Work Order # WO1170014398.001 & WO1170014398.002. Reinstalled magnetos P/N 10-500556-10 S/N left D03CA063 and right S/N D03CA059 with new gaskets and timed to engine.
- Removed slave wastegate P/N 477233-0003 S/N 47529 and sent to Main Turbo Systems Inc 234 South Cotta Ct. Visalia, CA 93292 FAA CRS #MAMR190K for overhaul. Filled 8130-3 dated 30/Apr/2014 work order 47529 into aircraft records. Reinstalled overhauled waste gate with new hardware supplied by Tornado Alley Turbo. Bolts P/N AN4C11A, AN4C12A, nuts MS21046C4 and gaskets FG0120830.
- Ran engine and leak checked satisfactory.
- All AD's checked to date 05/2014.
- This engine was determined to be in satisfactory condition for return to service.

Jeffrey Savko IA 2726736



JMS SERVICES LLC

Reg: N90MG  
Make/Model: IO-550-N46  
S/N: 690871

Date: 07/10/2014  
Hobbs: 1429.2

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ctions,

- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory..
- Ran engine and leak checked satisfactory.
- This engine was determined to be in satisfactory condition for return to service with respect to the work performed.

Jeffrey Savko A&P 2726736


JMS SERVICES LLC

Reg: N90MG  
Make/Model: IO-550-N46  
S/N: 690871

Date: 08/20/2014  
Hobbs: 1464.2

- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory..
- Ran engine and leak checked satisfactory.
- This engine was determined to be in satisfactory condition for return to service with respect to the work performed.

Jeffrey Savko A&P 2726736


JMS SERVICES LLC

Reg: N90MG  
Make/Model: IO-550-N46  
S/N: 690871

Date: 12/26/2014  
Hobbs: 1494.4

- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory..
- Ran engine and leak checked satisfactory.
- This engine was determined to be in satisfactory condition for return to service with respect to the work performed.

Jeffrey Savko A&P 2726736


JMS SERVICES LLC

Reg: N90MG  
 Make/Model: IO-550-N46  
 S/N: 690871

Date: 06/23/2015  
 Hobbs: 1515.5  
 FLT: 1453.3  
 Engine TSMO: 1515.5

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I certify that this Engine and Propeller has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. The following work was performed with the scope and detail of FAR Part 43 , appendix D. The following was performed:

- Compression Check: #1 69/80, #2 65/80, #3 59/80, #4 65/80, #5 69/80, #6 67/80.
- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory.
- Cleaned and lubricated induction air filter,
- Lubricated engine controls and turbocharger wastegates.
- Installed new spark plugs Tempest URHB32E (12).
- Replaced all rocker cover gaskets P/N TCM 655705.
- Retorqued all induction clamps.
- Degreased engine.
- Checked magneto timing.
- Removed Hartzell turbo chargers P/N 466304-0003 S/N JHL00691, S/N JKL00120 and sent to Main Turbo Systems Inc 234 South Cotta Ct. Visalia, CA 93292 FAA CRS #MAMR190K for overhaul. Filled 8130-3 dated 11/Jun/2015 work orders 49465 and 49464 into aircraft records. Reinstalled overhauled turbocharger. Installed in accordance with main turbo systems, inc turbocharger installation instructions, Kelly aerospace SB No. 23 dated Feb 8,2006. Set fuel, manifold and RPM in accordance with tornado alley turbo, inc continued airworthiness manual 22-6460004 Rev C dated 22Sept2011 and TCM SID97-3E as a guide.
- Removed fuel pump P/N ETI-SR22-2-12 S/N GP5353 and sent to tornado alley turbo FAA CRS # 1GPR022B to perform TAT SB12-02. See attached 8130 work order # 15-386 dated 10Jun2015. Reinstalled fuel pump with new gasket. Set fuel, manifold and RPM in accordance with tornado alley turbo, inc continued airworthiness manual 22-6460004 Rev C dated 22Sept2011 and TCM SID97-3E as a guide.
- Installed new left turbocharger oil return line P/N AE1014035H0190.
- Installed tornado alley turbo, inc exhaust retro kit left P/N 22-6180001 MO 2274 in accordance with tornado alley turbo installation instructions cirrus retrofit new exhaust 22-6460006.
- Installed new TIT probe P/N ETI-G2-711 RCT 4052.
- Ran engine and leak checked satisfactory.
- All AD's checked to date 2015/06.
- This engine was determined to be in satisfactory condition for return to service.

Jeffrey Savko IA 2726736








JMS SERVICES LLC

Reg: N90MG  
Make/Model: IO-550-N46  
S/N: 690871

Date: 06/24/2016  
Hobbs: 1571.9  
Engine TSMO: 1571.9

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I certify that this **Engine and Propeller** has been inspected in accordance with an **annual inspection** and was determined to be in airworthy condition. The following work was performed with the scope and detail of FAR Part 43 , appendix D. The following was performed:

- Compression Check: #1 74/80, #2 74/80, #3 55/80, #4 68/80, #5 73/80, #6 66/80
- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory.
- Cleaned and lubricated induction air filter,
- Lubricated engine controls and turbocharger wastegates.
- Cleaned, gapped and rotated sparkplugs.
- Retorqued all induction clamps.
- Degreased engine.
- Retimed magnetos to engine.
- Ran engine and leak checked satisfactory.
- All AD's checked to date 2016-06.
- This engine was determined to be in satisfactory condition for return to service.

Jeffrey Savko IA 2726736

JMS SERVICES LLC

Reg: N90MG  
Make/Model: IO-550-N46  
S/N: 690871

Date: 11/2/2016  
Hobbs: 1590.7

- Performed oil change. Installed Champion oil filter P/N 48108-1 and added 8 Quarts Exxon Elite 20W-50. Cut open old oil filter to check for metal. Found satisfactory..
- Ran engine and leak checked satisfactory.
- This engine was determined to be in satisfactory condition for return to service with respect to the work performed.

Jeffrey Savko A&P 2726736

N90MG SR22 S/N 2380 Tach 1551.6 IO 550N  
 Removed Dukes Electric Fuel Pump P/N 5217-00-3  
 Installed P/N 5217-00-3 S/N 1031 Quality Aircraft Acc W/O # 025953.  
 Removed engine fuel pump ETI-SR22-2-12 S/N GP5353  
 For Bench Test. Great Planes W/O # 17-272, reinstalled.  
 Removed T hr/Body /Fuel Control 653353-8A1 S/N A07AA004 &  
 Manifold Valve 646433-9A4 S/N C07AA004 for overhaul, reinstalled.  
 Great Planes W/O # 17-284  
 Changed oil & filter Inspected filter, serviced with 8 Qts. <sup>EXXON</sup> Phillips 20W-50  
 Cleaned & gapped lower spark plugs. Engine run up satisfactory.

5/19/2017 AP35420004



Reg: N90MG  
 Make/Model: IO-550-N46  
 S/N: 690871

Date: 06/14/2017  
 Hobbs: 1619.1  
 Engine TSMO: 1616.1

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Brought

I certify that this **Engine and Propeller** has been inspected in accordance with an **annual inspection** and was determined to be in airworthy condition. The following work was performed with the scope and detail of FAR Part 43 , appendix D. The following was performed:

- Compression Check: #1 70/80, #2 69/80, #3 62/80, #4 68/80, #5 74/80, #6 71/80
- Cleaned and lubricated induction air filter,
- Lubricated engine controls and turbocharger wastegates.
- Cleaned, gapped and rotated sparkplugs.
- Retorqued all induction clamps.
- Degreased engine.
- Retimed magnetos to engine.
- Ran engine and leak checked satisfactory.
- All AD's checked to date 2017-06.
- This engine was determined to be in satisfactory condition for return to service.

Jeffrey Savko IA 2726736



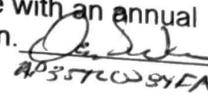
IO-550-N46 S/N 690871 1651.8 H 1551.6 T 6-14-2018


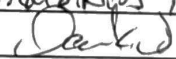
Changed oil and filter inspected serviced with 8 qts Exxon 20W-50  
 Compression 1) 72/80 2) 70/80 3) 65/80 4) 70/80 5) 70/80 6) 71/80  
 Replaced RT magneto P/N 10-500556-101 S/N D071A038 installed QAA WO  
 039407, engine run and leak check satisfactory.

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

*Don W. AP3542003/IA*

9/14/18				1678.8 HOBBS.
				CHANGED OIL AND FILTER INSPECTED
				SERVICED WITH 7 QTS ELIXE 20W 50
				LEAK CHECK SATISFACTORY
				<i>Don W. AP3542003</i>
5/16/2019				1703.4 H. 1551.6 F.T. CHANGED OIL AND
				FILTER SERVICED WITH 7 QTS ELIXE 20W 50
				LEAK CHECK SATISFACTORY
				<i>Don W. AP3542003/4</i>

Engine IO-550-N46 S/N 690871 1719.0 7/8/19  
1. 70/80, 2. 72/80, 3. 65/80, 4. 70/80. 5. 65/80, 6. 70/80  
Cleaned and gapped spark plugs. Removed and replaced LH Magneto  
S/N OFF D03CA063 S/N ON D04HA135.  
Removed and replaced alternator and hub assembly.  
P/N 646843 S/N A169186 Hub 646655 S/N QAA51917  
Quality Aircraft Acc. 8130-3 W/O 049512, 128550, 051917.  
Set magneto timing. Engine run up satisfactory. Alt output normal.  
I certify that this engine has been inspected in accordance with an annual  
inspection and was determined to be in airworthy condition.  
 AP3572028YEA

Date	Total Time	Time Since Last Overhaul	Description
Hrs. Min.	Hrs. Min.	Hrs. Min.	
8/23/19	1728.2	1731.2	CHANGED OIL AND FILTER INSPECTED, NO DEFECTS NOTED SERVICED WITH AEROSHELL 15W-50, WROUNTS RUD LEAK CHECK SATISFACTORY.  AP3572028Y
8/3/2020	1780.1	1780.1	COMP. (1) 72/80 (2) 70/80 (3) 70/80 (4) 65/80 (5) 70/80 (6) 70/80. CHANGED OIL AND FILTER INSPECTED. SERVICED WITH AEROSHELL 15W-50 AND TEMPERST 49108-2 FILTER. WASHED VALVE. CHECKED MAGNETO TIMING (GROUND RUN) SATISFACTORY. I CERTIFY THAT THIS ENGINE AND PROPELLER HAVE BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  AP3572028YEA

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward	→				
9/15/2021		148	1796.3		CHANGED OIL AND FILTER, SERVICED W/ 9 QTS 15W50 AFDOSHELL, COMP CHECK (1) 70/80 (2) 69/30 (3) 69/30 (4) 70/80 (5) 70/80 (6) 69/80 CHECKED M/L TIMING AND SPARK PLUGS. FUNCTION GROUPS RUN SATISFACTORILY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. John AP35420094 CA
10/1/2022			1811.2		CHANGED OIL AND FILTER INSPECTED SERVICED WITH 9 QTS 15W50 AFDOSHELL GROUPS RUN SATISFACTORY. John AP35420094
3/24/22			1828.1		REMOVED AND REPLACED #2 ALTERNATOR RUN LEAK CHECK SATISFACTORY. ON LINE 140 RPM. John AP35420094. S/N 1C40M9U14KX
10/14/2022			1857.6		COMPRESSION (1) 65/80 (2) 65/80 (3) 65/80 (4) 70/80 (5) 70/80 (6) 65/80. INJ. TIMING, SPARK PLUGS, CHECKED, REPLACED. OIL NOT CHANGED AT THIS TIME DUE TO SPORE SURFACE FU FILTERS. FUNCTION GROUPS RUN SATISFACTORY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. John AP35420094 CA
11-3-2022			1863.5		CHANGED OIL AND FILTER INSPECTED - SERVICED W/ 7 QTS 15W50 AFDOSHELL. LEAK CHECK SATISFACTORY. John AP35420094





# CONTINENTAL MOTORS

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**GAMA**

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