




TELEDYNE CONTINENTAL MOTORS



THE OIL PRESSURE ON THIS ENGINE WAS
ADJUSTED DURING THE ENGINE ACCEPTANCE
TEST AT THE FACTORY. ONLY MINOR
ADJUSTMENTS MAY BE NECESSARY TO
ASSURE THE PROPER INDICATION ON
THE COCKPIT GAUGE.

FACTORY SETTINGS:

RPM 2762 OIL TEMP 209 OIL PRESSURE 46.0
OIL PRESSURE PICK UP POINT: ENGINE INLET AT
OIL COOLER

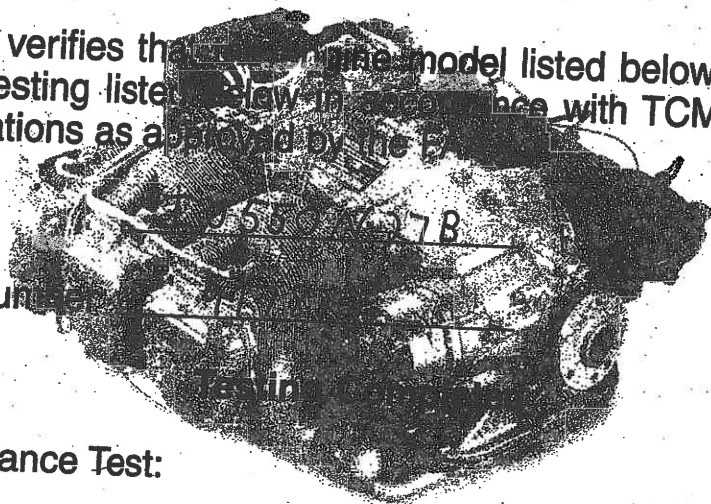
655313

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with TCM standard engine testing specifications as approved by the FAA.

Engine Model

Engine Serial Number



Standard Acceptance Test:

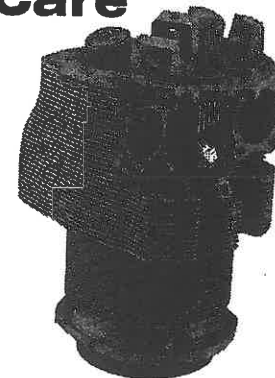
Date of Completion 7-28-05 Test Operator _____



Form No 98344

Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

IMPORTANT - Comply with the TopCareSM Cylinder Program requirements to be eligible for:



- **Industry leading warranty**
– **3 Year / 1000 Hours***
- **Improved Cylinder Service Life**

How to Comply:

- 1-Have the TopCare Health CheckSM performed as prescribed in the latest revision of TCM Service Information Directive SID97-2.
- 2-Register by submitting the TopCare Cylinder Warranty Enrollment Form & initial TopCare Health Check form to TCM in accordance with the latest revision of SID97-2.
- 3-Perform the TopCare Health Check on an annual basis to maintain coverage and optimum cylinder service life.

For complete TopCare Program information, go to <http://www.tcmlink.com/topcare/index.html> and download a free copy of the latest revision of TCM Service Information Directive SID97-2. Go to <http://www.tcmlink.com/warranty.html> to obtain a free copy of the TopCare Cylinder Warranty. You can also request this information be mailed to you by contacting the Aviator Services Desk at 1-888-826-5465.

NOTICE: Failure to register in, or failure to meet the eligibility requirements of, the TopCare program will render your cylinder warranty coverage to be the same as the Teledyne Continental Motors (TCM) Aircraft Engine Part, Component & Accessory Warranty which provides 12 Months/500 hours (No Labor).

*3 Year/1000 Hour Warranty Consists of 1 Year Parts & Labor Coverage. 2nd & 3rd Year Parts Only Coverage.



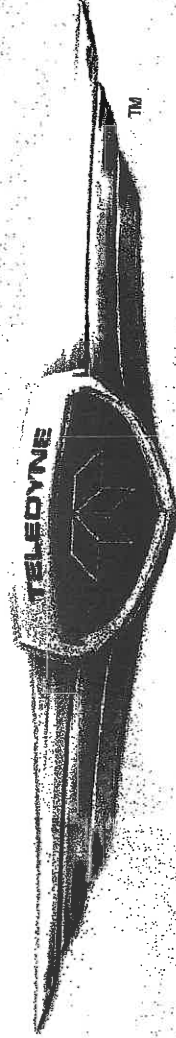
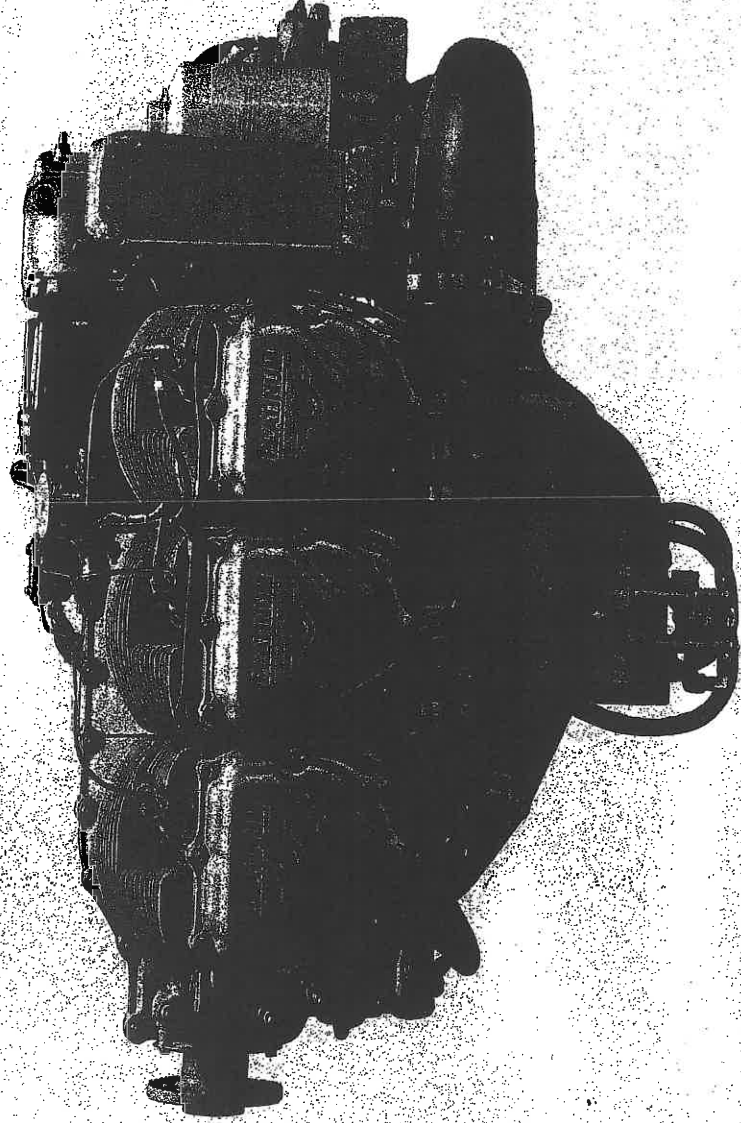
Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

TCM NO: CYL0401

The points of the TopCare Health Check are:

- Cylinder Differential Compression Check And Trend Monitoring** – When made and recorded for trend monitoring purposes you can identify cylinder leakage rates and the source of the leakage. This test can also be used as a gauge to determine wearing of cylinder walls, ring surfaces and valve seats throughout the life of the engine.
- Cylinder Borescope Inspection, As Required** – Your technician must examine the cylinder for the presence of rust and overall condition of the cylinder bore and the valve area.
- Oil Consumption Trend Monitoring** – A good diagnostic tool that provides the indication of wear, or indication of the need for inspection or service.
- Oil Analysis Trend Monitoring** – A tool used to monitor wear material and contaminants in the engine. For those engines with an established oil analysis profile, changes in iron, copper and other tracked materials can alert you to unusual wear trends and contaminants.
- Baffle Condition Inspection** – Incorrect and improperly fitting baffles and baffle seals can contribute to premature cylinder removal caused by high cylinder and oil temperatures.
- Induction System Examination** – Breathing in unfiltered air contains particulates which are abrasive to the engine, especially to the cylinder walls and ring faces.
- Cowling Inspection and Cowl Flap Operational Check** – In addition to baffle conditions, other components that affect airflow through the cowling must be examined.
- Ignition System Inspection** – Advanced magneto to engine timing can cause high cylinder head temperatures. Maintain magneto in accordance with published requirements
- Fuel System Setup** – Engine operation and cooling are directly related to the correct set-up of the fuel system. Airflow is not enough to cool the engine during high-power operation and additional fuel is required to provide supplemental cooling.
- Verification Of Accuracy Of Engine Instrument Gauges** – Use of inaccurate gauges can result in possible cylinder wear due to lean operation, pre-ignition, detonation, loss of power and sever engine damage or sudden engine stoppage.
- Flight Test** – Test fly the aircraft with your mechanic after annual inspection. Your knowledge and increased awareness of correct engine operation can significantly influence the service life of your engine's cylinders and other components.

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: 07/28/2005

This engine model 10550N27, Serial No. 917822 was manufactured on 07/28/2005 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.

TCM
10

TELEDYNE CONTINENTAL MOTORS
A TELEDYNE TECHNOLOGIES COMPANY
PRODUCTION CERTIFICATE NO. 568

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.	
9-14-05	22.7		22.7	0	Changed Oil & Filter P/N CH48108-1 Serviced with 8 QTS Aeroshell 15W50 Insp. Filter Element, No Contamination Noted Run & Leak Check Good. All work As Per MFRMm. <i>[Signature]</i> 09/30/05



Leading Edge Aviation Services
Vandenberg Airport
Tampa, FL 33610
(813)-626-1515



+ November 2005 N313DG
Hobbs: 69.4

Drained oil and serviced with 7 quarts of Aero Shell 15W50. Removed and replaced oil filter with CH48108-1. Cut open oil filter for inspection, no abnormal particles found.
Run up performed, no leaks noted at this time.

[Signature]
Ryan Donahue A&P# 30115609

22 Feb 06	123.0	123.0	0	0	Changed Oil & Filter P/N CH48108-1. Serviced with 8 QTS Aeroshell 15W50. Insp. Filter Element, No F.O. Run & Leak ck GD. ATR EXHAUST SUPPORT TUBE BRACKET P/N 15196-002. All work As Per MFR-MMM <i>[Signature]</i> 09/30/06
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Southeast Aero Services, Inc. - St. Augustine, FL
Cirrus SR22 s/n 1592 N313DG

Tach Time: 154.4
S/N: 917822

02, May 2006
TCM IO-550N

- Completed a fuel system set up IAW TCM SID97-3C.
- Removed and replaced alternate air bolt with new.

Run up and functional check satisfactory
James T. Markey A&P154623664 *[Signature]*

6 Jun 2006	Hobbs 169.3	TAF 169.3	TAN 169.3	ADJUSTED	ADJUSTED
	Idle Fuel Pump Pressure	8.5 PSI	(Limit 8-10 PSI)		
	Idle Speed	600 RPM	Idle Mixture	Rich	Set at 50 RPM (Limit 25-10 RPM)
	Fuel Pressure	27.00	(Limit 28-32)	metered	
	Fuel Pressure	20.9 PSI	(Limit 19-21.3)	Fuel Flow	
	26.7 GPH	(Limit 25.6-27.3 GPH)	Leak	OPB CHECK	

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 Forward	→				
	C/W NO DEFECTS NOTED. THE MAINTENANCE IDENTIFIED HOSES INSPECTED AND FOUND TO BE IN AN AIRWORTHY CONDITION.				The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.
					"Pertinent details of the repair are on file at this repair station under Cirrus # 154.4 dated 05/02/06"
					Signed <i>[Signature]</i> for _____ (signature of authorized representative)
					Montgomery Aviation Corporation EEAARIATM
					Box 92, Montgomery, Ala. 36106

Southeast Aero Services, Inc. - St. Augustine, FL
Cirrus SR22 s/n 1592 N313DG

02, May 2006
TCM IO-550N

Tach Time: 154.4
S/N: 917822

1. Completed a fuel system set up IAW TCM SID97-3C.
2. Removed and replaced alternate air bolt with new.
3. Complied with SB2X-28-04R1 Fuel line chafing by installation of mod kit as required.
4. Complied with SB2X-32-14R1 Wheel pant modification by installation of mod kit IAW SB instructions.
5. Replaced all o-rings in both brake calipers with new.
6. Tightened heater control knob as required.

Functional check satisfactory

[Signature]

TOM COOPER A&P 590195508



Leading Edge Aviation Services
Vandenberg Airport
Tampa, FL 33610
(813)-626-1515

22 Sept. 2006 N313DG
Hobbs: 218.2 Engine Model: IO-550-N S/N:917822



Removed and replaced oil filter and installed CH48108-1. Cut open filter for inspection, no abnormal particles were found. Drained oil and serviced with eight quarts of AeroShell 100 mineral oil. Installed oil quick drain. Installed new air filter P/N BA-74. Removed, cleaned, inspected, spark plugs. Compressions checked: #1:68/80; #2:66/80; #3:70/80; #4:68/80; #5:69/80; #6:68/80. Removed and cleaned fuel injectors. Complied with TCM SID 97-3 (fuel set up) Checked magneto to engine timing. Removed muffler shroud and inspected for cracks and adjust ball joint tension. Secured intake hose clamps and retorqued intake flange nuts. Retorqued valve cover screws. Replaced alternate air bracket, Repaired Rt.fwd baffle per SB#SB2X-71-14. Checked through 22 Sept.06. I certify this engine has been inspected in accordance with a 100-hour inspection with reference to Cirrus AMM section 5-20 and is found to be in airworthy condition at this time.

[Signature]
Stephen Wiedler A&P # 145604431

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

Engine Service and Maintenance Record

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



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515
 28 September 2006



N313DG

Removed EDP P/N 655921-3A1 S/N B05FA270 and installed New EDP P/N 655921-3A1 S/N B06FA148. Complied with TCM SID 97-3C and performed test flight. Complied with SB 2X-77-02 (Engine Sensor Modification) by installing Kit # 70134-001 (On each CHT and EGT Probe).

Hobbs: 223.6

Gene Miller
 Steve Miller A&P# 2700197

Miracle Strip Aviation, Inc.
 FAA Certified Repair Station
 # DZJR423D

Destin Airport
 1001 Airport Road
 P. O. Box 159
 Destin, Florida 32540
 Anti-Drug/Alcohol Plan # B-S0-001565

N# 31306

Date: 10-3-06

Tach/Hobbs: 223.6

Description of work performed: *Adjusted Prop Gov. Inp NFR Service Manual*

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance with Current Regulations of the FAA Administration and is Approved for Return To Service

Signed: *[Signature]*
 For Miracle Strip Aviation CRS # DZAR423D

26 OCT 2006 Hobbs 238.6 ADJUSTED Fuel Pump Pressure
 Inp Curves M.M AND TCM SID 97-3 IDLE Fuel Pressure
 8.0 PSI IDLE RISE 35 FULL THROTTLE SET 2650RPM.
 (WAS NOT REPAID Fuel Pressure @ 27.5 PSI; Made Red Pressure
 18.5 PSI, Fuel Flow 26.6 GPH; CORRECTION FACTOR
 .978. REPLACED #2 Cy Linde Fuel INJECTOR NOZZLE
 P/N 652312A2 (TCM P/N 657068-2234), ADJUSTED PROP
 GOVERNOR PER CURVES M.M. THE MAINTENANCE IDENTIFIED
 HAS BEEN INSPECTED AND FOUND TO BE IN AN AIRWORTHY CONDITION.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return-to-service.
 # The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return-to-service.
 P. O. Box 92, Montgomery, Alabama, # **FAA AIRMAN** certificate.org

*Pertinent details of the repair are on file at this repair station under Order No. ML5100 Date: 10/29/06

Signed: *[Signature]* for

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 Forward	↑				
26 OCT 2006	11	00	24	2	TBN 343.2 REMOVED, INSPECTED, CLEANED, TESTED, GAPPED, ROTATED, REINSTALLED AND REPAIRED. LEAKS PARG PARG. O/F CHECK Q/W NO DEFECTS NOTED. THE MAINTENANCE IDENTIFIED HAS BEEN IDENTIFIED AND FOUND TO BE IN AN AIRWORTHY CONDITION.
30 OCT 2006	11	00	24	3	METER ASST. P/N 653353-8, P/N A051A26 AND NEW GASKET, P/N 652094, LEAK AND O/F CHECK Q/W. FUEL PRESSURE ADJUSTED PER CIRCUIT M.M. AND IDL RPM'S. IDLE FUEL PRESSURE @ 8.0 PSI IDLE RPM @ 35 METERS FUEL PRESSURE @ 19.2 PSI; FUEL FLOW @ 63.0 MM (AIRCRAFT GAGE @ 26.8 PSI. O/F CHECK Q/W NO DEFECTS NOTED. THE MAINTENANCE IDENTIFIED HAS BEEN INSPECTED AND FOUND TO BE IN AN AIRWORTHY CONDITION.
<p>The aircraft, engine, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Agency and is approved for return to service.</p> <p>*Pertinent details of the repair are on file at this repair station under Order No. <u>15110</u> Date <u>10/26/06</u></p> <p>Signed <u>[Signature]</u> for <u>[Signature]</u></p> <p>Montgomery Aviation Corporation HEARSTON</p> <p>P. O. Box 92, Montgomery, Alabama.</p>					
<p>Montgomery Aviation Corporation HEARSTON</p> <p>P. O. Box 92, Montgomery, Alabama.</p>					

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: SAME AS BLOCK 5	
4. Organization Name and Address: Teledyne Continental Motors P.O. Box 90 Mobile, Alabama 36601		5. Work Order/Contract/Invoice Number: P02030			
6. Item: 1	7. Description: THROTTLE & METER ASM	8. Part Number: 653353-8	9. Eligibility*: I0550N		
10. Quantity: 1	11. Serial/Batch Number: A05JA126	12. Status/Work: NEW			
13. Remarks:					
14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.					
15. Authorized Signature: <i>Daniel L. Nicholas</i>		16. Approval/Authorization No.: DMIR#CE-511010		20. Authorized Signature: XXXXXXXXXXXXXXXXXXXX	
17. Name (Typed or Printed): Daniel L. Nicholas		18. Date (m/d/y): MAR/20/2006		21. Approval/Certificate Number: XXXXXXXXXXXX	
				23. Date (m/d/y): XXXXXXXXXXXX	
User/Installer Responsibilities					
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in block 1.					
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

14 CFR 43.9 Request to Service
 Other regulation specified in Block 13
 OTHER INFORMATION TO BE ENTERED IN YOUR WORK RECORDS IS TO BE KEPT BY THE USER/INSTALLER IN BLOCK 13 as specified in accordance with Title 14 Code of Federal Regulations, part 43.9. Items not approved for return to service.

Engine Service and Maintenance Record
 Installations, Inspections, Airworthiness Directives, Special Inspections,
 Modifications and Service Bulletins



MIRACLE STRIP AVIATION

Destin Airport
 1001 Airport Road
 P.O. Box 159
 Destin Florida 32540
 Anti-Drug/Alcohol Plan # B-S0-00156S

N# 3130G Tech/Hobbs: 245.4

Except as stated below, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Description of work performed:
INSPECTED. CHANGED OIL/FILTER. OLD FILTER ELEMENT
APPLIES 20W50 X-C. RUN-UP LEAK CHECK GOOD.
REPLACED #1 CYLINDER BOTTOM SPARK PLUG.

Signed: M. S. Du

Cert #: CAS 02M4230 Date: 1 Nov 2006

Date	Total Time Hrs. Min.	Time Since Last Overhaul Hrs. Min.	Description
<u>02/01/07</u>	<u>294.3</u>	<u>294.3</u>	<u>Took oil sample, drained oil, removed old filter and cut open, no defects noted. Installed new filter (PNC-H48108-1). Serviced with 7qts of Aeroshell 15W50. Run up good. Leak check good. All TAW MFR MM.</u>



MIRACLE STRIP AVIATION

Destin Airport
 1001 Airport Road
 P.O. Box 159
 Destin Florida 32540
 Anti-Drug/Alcohol Plan # B-S0-00156S

N# 313DG Tech/Hobbs: 311.4

Except as stated below, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Description of work performed:
REMOVE & REPLACED #1 CHT PROBE IAW CIRCUIS
MANUAL, PROBE PN 16578-001 INSTALLED PER CIRCUIS
TECH REP.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance with Current Regulations of the FAA Administration and is Approved for Return to Service.

Signed: Richard Inward wb # 50-07-0026 Cert #: 02-28-07
 For Miracle Strip Aviation CRS#DZR423D

Date

Total Time

Time Since Last Overhaul

Hrs.

Min.

Brought Forward

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Snarial Inenarinnce



1001 Airport Road
Destin, Florida 32540
Anti-Drug/Alcohol Plan #B-SO-00156S
CRS#DZJR423D

Miracle Strip Aviation

N# 313DG Hobbs: 347.0

except as stated below, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Description of work performed:

Took oil sample, drained oil and removed old filter and cut open, no defects noted. Installed new filter P/N CH48105-1. Serviced with 8 qts of Phillips 20w50. Ran up good. Leak check good. All IAW MFR MM.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: Justin Justice CRS#DZJR423D

WO# 50-07-0206 Date: 04/27/07



1001 Airport Road
Destin, Florida 32540
Anti-Drug/Alcohol Plan #B-SO-00156S
CRS#DZJR423D

Miracle Strip Aviation

N# 313DG Hobbs: 375.8

except as stated below, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Description of work performed:

DISCONNECTED CLEANED AND INSPECTED #5 CYL CHT PROBE AND WIRING HARNESS ASSEMBLED RAN ENGINE, OPS CYL GOOD, IAW MFR MAINT. MAN.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: David W. CRS#DZJR423D

WO# 50W-07-0123 Date: 2 JUN 07

9-20-07	375.8	Drained oil sample taken, removed old filter
		Insp. no unusual f.o., noted new filter installed
		Serviced w/ 8 qts Phillips 20w50 oil
		Run w/ok. good. Compression checked.
		DIFFERENTIAL COMPRESSION
		180/113 380/12 580/10
		280/70 480/12 680/68

Cont. next page

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward	↑			
6-20-07	398.2			

Engine Service and Maintenance Record

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

TSN
 HOURS 398.2 DATE 6-20-07
 AT THE TIME OF THIS INSPECTION, I CERTIFY THAT
 THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE
 WITH A REPAIRED INSPECTION AND WAS DETERMINED
 TO BE IN AIRWORTHY CONDITION.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance with Current Regulations of the FAA Administration and is Approved for Return To Service.
 Eric W. Mengelson
 ASP 30269651A

1001 Airport Road
 Destin, Florida 32540
 CRS DZJR423D

MIRACLE STRIP
 AVIATION
 AVIAT DESTIN

1001 Airport Road
 Destin, Florida 32540
 CRS DZJR423D

N# 313DG Hobbs: 454.0
 except as stated below, no other work, inspection, corrective action or determination of Airworthiness was made at this time.

Description of work performed:
 Took oil sample, drained oil, removed old filter, and cut opening no defects noted. Installed new filter P/N CH83109 - 1. Serviced with jets of Aerashell 15W 50. Run up good. Leak check good. Replaced battery terminals. All IAW MFR MM.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: Justin Judice CRS#DZJR423D

WO# 50-08-0113 Date: 03-21-08

1001 Airport Road
 Destin, Florida 32540
 CRS DZJR423D

MIRACLE STRIP
 AVIATION
 AVIAT DESTIN

N# 313DG Hobbs: 460.5

except as stated below, no other work, inspection, corrective action or determination of Airworthiness was made at this time.

Description of work performed:
 Cyl 563X-25-14 R3 + AD2008-03-1L
 Replaced A. Leon interconnect. By installing
 KIT# 70195-001 and part of AD.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: [Signature] CRS#DZJR423D

WO# 50-08-0062 Date: 4-18-08

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected in Accordance With Current Regulations of the FAA Administration and is approved for return to service.
 Signed: [Signature] CRS#DZJR423D
 Date: 19 APR 08

N# 313DG Hobbs: 460.8
 except as stated below, no other work, inspection, corrective action or determination of Airworthiness was made at this time.
 Description of work performed:
 INSTALLED NEW CHT PROBE IN # 6
 CYLINDER PART NO. 14880-001 FROM
 AIRCRAFT OPS CR GOOD FROM MAINT.
 MAINT. MAN.

MIRACLE STRIP
 AVIATION
 AVIAT DESTIN

Engine Service and Maintenance Record

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

Eng.

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D

MIRACLE STRIP
AVIATION
AVIAT DESTIN

N# 31306 Hobbs: 495.8

except as stated below, no other work, inspection, corrective action or determination of Airworthiness was made at this time.

Description of work performed:

500HR magenta Eng. 410 Big Quality Aircraft
Drained oil oil filter cut open no unusual F.O.
Noted. Sample taken. new 9. HES Installed serviced
WGA's 100-50 milin Pan back ch 40-8. SPASIDOR-3E
fuel pressures.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed:  CRS#DZJR423D

WO# 40-08-0370 Date: 8-22-08

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D

MIRACLE STRIP
AVIATION
AVIAT DESTIN

N# 31306 Hobbs: 495.8

except as stated below, no other work, inspection, corrective action or determination of Airworthiness was made at this time.

Description of work performed:

AT THE TIME OF THIS INSPECTION, I CERTIFY THAT
THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE
WITH AIRWORTHINESS INSPECTION AND WAS DETERMINED
TO BE IN AIRWORTHY CONDITION.

DIFFERENTIAL COMPRESSION

1 80/	<u>75</u>	3 80/	<u>75</u>	5 80/	<u>73</u>
2 80/	<u>70</u>	4 80/	<u>73</u>	6 80/	<u>74</u>

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed:  CRS#DZJR423D

WO# 40-08-0370 Date: 8-22-08

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D



N# 313DG Hobbs: 546.2 except as stated below, no other work, inspection, Corrective action or determination of Airworthiness was made at this time.

Description of work performed:
TOOK OIL SAMPLE, Removed AND Inspected, Filter, Element, DRAINED OIL, INSTALLED NEW FILTERS PIN CH48108-1 AND SERVICED 8 QTS Aeroshell 15W50. Removed AND replaced #2 CHT PROBE PIN 14880-001. Engine RUN LEAK AND OPS CHECK GOOD 1/16w 2/16 m.m.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: [Signature] CRS#DZJR423D
WO# 50-09-0044 Date: 2-12-2009

Engine

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D



N# 313DG Hobbs: 576.6 except as stated below, no other work, inspection, Corrective action or determination of Airworthiness was made at this time.

Description of work performed:
Removed old #6 EGT Probe and installed new probe PN 14554-001 after modifying EGT Probe using SB 2X-77-02 R1 Temperature Engine Sensor Modification instructions. All work as per MFR-MM and SB 2X-77-02 R1.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: [Signature] CRS#DZJR423D
WO# 50-09-0170 Date: 10MAR 2009

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D



N# 313DG Hobbs: 576.6 except as stated below, no other work, inspection, Corrective action or determination of Airworthiness was made at this time.

Description of work performed:
RRR Both #6 CYLINDER SPARK PLUGS P/N RB323. Removed, cleaned and reinstalled #6 fuel nozzle. ENGINE RUN OPS CHECK GOOD. ALL WORK AS PER MFR-MM.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was Repaired and Inspected In Accordance With Current Regulations of the FAA Administration and is approved for return to service.

Signed: [Signature] CRS#DZJR423D
WO# 50-09-0170 Date: 14MAY2009

Date	Total Time		Ti LAs
	Hrs.	Min.	
Brought Forward	↗		

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

Engine Service and Maintenance Record
Installations, Inspections, Airworthiness Directives, Special Inspections,
Modifications and Service Bulletins

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D

MIRACLE STRIP
AVIATION
AVIATAT DESTIN

N# 3130G Hobbs: 587.4
except as stated below, no other work, inspection,
corrective action or determination of
airworthiness was made at this time.

Description of work performed:
Drained oil, sample taken. Removed & cut open
oil filter, no abnormal F.O. noted, new filter installed
service w/ 701's Aeroshell 150-50 Rainbak
OK good. Done IAW MFR service manual

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was repaired and inspected
in accordance with current regulations of the FAA Administration and is approved for return to service.

Signed: _____ Date: 7-28-09
W/O# 80-09-0299 CRS#DZJR423D

1001 Airport Road
Destin, Florida 32540
CRS DZJR423D

MIRACLE STRIP
AVIATION
AVIATAT DESTIN

N# 3130G Hobbs: 587.4
except as stated below, no other work, inspection,
corrective action or determination of
airworthiness was made at this time.

Description of work performed:
HOURS **DATE**

AT THE TIME OF THIS INSPECTION, I CERTIFY THAT
THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE
WITH AIRMAN'S INSPECTION AND WAS DETERMINED
TO BE IN AIRWORTHY CONDITION.
On SD917-3E on fuel sys.
Found in spec.

Maintenance Release: The Aircraft, Airframe, Aircraft Engine, Propeller or Appliance was repaired and inspected
in accordance with current regulations of the FAA Administration and is approved for return to service.
Signed: _____ Date: 8-5-09
W/O# 80-09-0299 CRS#DZJR423D

DIFFERENTIAL COMPRESSION
1 80/ 74 3 80/ 75 5 80/ 74
2 80/ 72 4 80/ 72 6 80/ 74

Eric W. Mengelson
A&P 30288651A



2601 Cessna Lane Kennesaw, GA 30144 770-427-4954
 LOG ID# 12565 09-June-2010 WO# 10231
 N313DG S/N 1592 CIRRUSS SR22
 HOBBS 645.0
 TTENG 645.0

*** ENGINE LOG ENTRY ***

SEE AIRCRAFT LOG FOR AD'S COMPLIED WITH DURING THIS ANNUAL. REPLACED THE FOLLOWING: LEFT MAG CONTACTS P/N 10-382584, CAPACITORS P/N 10-400615, ENGINE INLET FILTER, ALTERNATE AIR SUPPORT TUBE P/N 18293-001 AND #3 FUEL LINE CLAMP P/N 6524864. COMPLETED 500 HOUR MAGNETO INSPECTION. DRAINED OIL. CHECKED AND REPLACED OIL FILTER - NO METAL NOTED. OIL SAMPLE TAKEN. CLEANED AND GAPPED SPARK PLUGS. SERVICED WITH AEROSHELL 15W50 OIL. WASHED ENGINE. RAN ENGINE - ALL CHECKS NORMAL. NO OIL LEAKS NOTED. INSPECTED EXHAUST SYSTEM. CLEANED FUEL INJECTORS. CHECKED TIMING OF MAGNETOS - MAGNETOS CHECKED AT 22 DEGREES. PERFORMED COMPRESSION CHECK: #1 70/80 #2 64/80 #3 70/80 #4 64/80 #5 68/80 #6 68/80. SET FUEL PRESSURES IN ACCORDANCE WITH SID 97-3E. I CERTIFY THAT THIS AIRCRAFT AND/OR ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A/AN ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION.

MAINTENANCE RELEASE
 THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED UNDER WO#10231 AT REPAIR STATION DK7R795J. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION.

David L. Kardel
 Signed DK7R795J FOR DLK-AVIATION, INC.

MAKE: CIRRUSS
 MODEL: SR 22
 S/N: 1592
 WORK ORDER: 8453



50 Thompson Avenue
 East Haven, CT 06512

DATE: 8/13/2010
 ACIT: 691.6
 HOBBS 691.6

ENGINE ENTRIES:

DRAINED ENGINE OIL AND REMOVED OIL FILTER. SERVICED ENGINE WITH 8 QTS. AEROSHELL 15W50 OIL AND INSTALLED NEW CHAMPION CH48108-1 OIL FILTER. INSEPECTED OIL FILTER FOR CONTAMINATION, NONE NOTED. PERFORMED ENGINE RUN. LEAK CHECK SATISFACTORY AT THIS TIME.

The Aircraft, Airframe, 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.

DATE: 8/13/2010 SIGNED:

James Pearce
 AP 76644871

MAKE: CONTINENTAL
 MODEL: IO-550
 S/N:
 N313DG



WORK ORDER: 1038
 ETT:
 TSMOH:
 HOBBS: 724.2

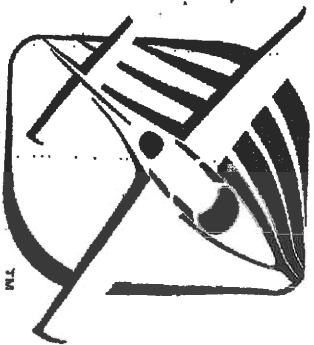
ENGINE ENTRIES:

REMOVED AND REPLACED # 3 AND # 6 CYLINDER CHT SENSORS WITH NEW PN: RF1037701 IAW CIRRUSS MM. PERFORMED ENGINE RUN WITH NO DISCREPANCIES NOTED.

The Aircraft, Airframe, Propeller or Appliance identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and was determined to be in airworthy condition. The item identified above is approved for return to service.

DATE: 1/5/2011 SIGNED:

James Pearce
 AP 76644871



Cirrus Design Corporation
 4515 Taylor Circle
 Duluth, MN 55811

Phone: 218-727-2737
 Fax: 218-727-2148
 www.cirrusdesign.com

CIRRUS™ DESIGN

SOLD TO
 API
 8655 Commerce Drive
 Suite 105
 Southaven MS 38671
 UNITED STATES

PACKING SLIP

PACKING SLIP NO.		DATE SHIPPED
116664*3		12/17/2010
SALES ORDER NO.		DATE ORDERED
116664		11/01/10
CUSTOMER PURCHASE ORDER NO.		
4500128483S		
SHIPPED VIA		
US FDX Gnd @ Gnd \$		

SHIP TO
 01*16976
 CIRRUS
 8655 Commerce Drive
 Suite 105
 Southaven, MS 38671
 UNITED STATES

ITEM

PRODUCT DESCRIPTION

QTY

UNIT

SHIP

QTY

UNIT

BIN LOCATION

002 14554-001
BGT SENSOR, MODIFIED
 Model N/A sh

54

54

0

SM16

005 14836-001
WELDMENT MUFFLER
 Model N/A sh
 12/20/10

8

8

3

007 16579-002
BGT SENSOR (LARGER CLAMP)
 Model N/A sh
 12/20/10

59

59

0

SM16

*PARTS THAT ARE NOT DEFECTIVE OR DAMAGED IN ANY WAY MAY BE RETURNED TO CIRRUS FOR CREDIT WITHIN 60 DAYS OF THE DATE OF INVOICE. PARTS WILL BE SUBJECT TO A RESTOCKING FEE OF 15% OR \$50 WHICHEVER IS GREATER, WITH A MAXIMUM OF \$500.

*A PRE-APPROVED WARRANTY CLAIM FORM MUST ACCOMPANY ALL RETURNED PARTS. FAX OUR WARRANTY ADMINISTRATION AT 218-529-7226 FOR ALL APPROVALS.

01BB05718

CIRRUS DESIGN CERTIFIES THAT THE ITEMS SHIPPED ON THIS ORDER ARE IN COMPLIANCE WITH ENGINEERING DRAWINGS AND SPECIFICATIONS.
 All products listed on this invoice are considered airworthy and meet the requirements of the type Certificate A00000CCH. These parts were manufactured under US Production Certificate FCS386E, and are eligible for installation on *Cirrus model SR20/SR22.

CO#: 13



2

PO#:



128483

RCVD DATE



110107

Continued...

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

ENGINE MODEL: IO-550-N **US Flight Aircraft Maintenance**
 27 ENGINE S/N: 917822 136 Tower Rd
 REG. NO: N313DG White Plains, NY 10604
 WORK ORDER: Phone: 914-288-8088
 06667-06-2011

DATE: 15 July, 2011
 A/C TSN: 764.7
 ENG TT: 764.7
 TSMOH:
 HOBBS: 764.7

Engine Entries

(40) CYLINDER HEAD DRAIN SEALS REQUIRE REPLACEMENT... Replaced all cylinder drain seals P/N 633956-2. Performed satisfactory leak check.

The work performed has been approved for return to service.

DATE: 15 July, 2011

SIGNED:



Work Order: 06667-06-2011
 Printed by EBIS 3 (datcommedia.com)

ENGINE MODEL: IO-550-N
 27 ENGINE S/N: 917822
 REG. NO: N313DG
 WORK ORDER:
 06667-06-2011

US Flight Aircraft Maintenance

136 Tower Rd
 White Plains, NY 10604
 Phone: 914-288-8088

DATE: 15 July, 2011
 A/C TSN: 764.7
 ENG TT: 764.7
 TSMOH:
 HOBBS: 764.7

Engine Entries

(2) CW CIRRUS AIRCRAFT 100HR/ANNUAL INSPECTION OF ENGINE... Engine inspected using Cirrus SR-22 Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up IAW CDC SR-22 AMM 5-30.

Performed cylinder differential pressure test, results as follows, # 1)78, #2)78, # 3)79, #4)77, #5) 75, #6) 78.
 Drained engine oil, removed and cut open filter.

No abnormal debris noted. Secured new AAA48108-2 filter and serviced engine with 8 Qts Phillips XIC 20/50 oil.

Cleaned rotated and secured spark plugs.

Performed satisfactory ground functional checks.

AD's & MSB's ok thru 7-11.

I certify this ENGINE has been inspected in accordance with an ANNUAL inspection checklist CDC SR-22AMM 5-20, and IAW TCM FORM NO. X30634A ch5-8 and has been determined to be in airworthy condition.


I certify that this engine has been approved for return to service.

DATE: 15 July, 2011

SIGNED:



Work Order: 06667-06-2011
 Printed by EBIS 3 (datcommedia.com)

ENGINE MODEL:  Performance Flight
 IO550N27
 ENGINE S/N: 917822
 REG. NO: 313DG
 WORK ORDER:
 0125-01-2012

136 Tower Lane Hangar M
 West Harrison, NY 10604
 Phone: 914-397-1444

DATE: 1/12/2012
 A/C TSN: 822.7
 ENG TT: 822.7
 TSMOH:
 FLIGHTTIME:

Log Entries

(1) Comply with 50 Hour Cirrus Inspection... Complied with Cirrus Design Corporations SR22 AMM 50 HR inspection checklist, SR22 Maintenance Program 50 HR checklist, and the scope and detail of FAR 43 Appendix D as guides. Performed pre-inspection ground function check of engine and related systems. Drained oil and removed filter, inspected filter for metal, no metal found. Torque and secured new CH48108-1 oil filter, and serviced engine with 8qts of Phillips 20W50XC oil. Battery checked, Air Intakes checked, Serviced Landing Gear tires. I certify this engine and airframe were inspected IAW the 50 HR inspection and has been determined to be in airworthy condition.... (4) Cylinder #2 upper and Cylinder #4 lower spark plugs defective-cracked ceramics.... Removed 12 worn RH332S Champion spark plugs and installed 12 New RH332E Champion spark plugs,bench tested and engine run-up,OPS checked O.K. IAW, Cirrus Maintenance Manual Chapter

Maintenance Release

The aircraft and/or component(s) on 313DG was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service.

DATE: 1/12/2012

SIGNED:



Laurence Mckenzie, A&P-3039916

Work Order: 0125-01-2012
 Printed by EBIS 3 (datcommedia.com)

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 MODEL:
IO550N27
ENGINE S/N: 917822
REG. NO: 313DG
WORK ORDER:
0274-04-2012



Performance Flight
136 Tower Lane Hangar M
West Harrison, NY 10804
Phone: 914-397-1444

DATE: 4/30/2012
A/C TSN: 837
ENG TT: 837
TSMOH:
FLIGHTTIME: 837

Engine Entries

(3) Complete Aircraft Annual Inspection of Engine... ENGINE - Completed Annual Inspection in accordance with Cirrus Design Corp engine and related systems. Performed pre-inspection ground functional check of filter, and serviced engine with 8qts Phillips X/C 20w-50 oil. Cleaned, gapped, rotated, and reinstalled all spark plugs as required. Drained and inspected gascolator, no contamination noted. Inspected all oil lines and fittings. Completed SB & AD search, all AD's found to be in an airworthy condition. (14) Left magneto needs to be retimed internally to the engine. Removed LH magneto from engine. Disassembled magneto and reset internal timing. Reinstalled LH magneto onto engine and checked engine timing. Everything checked out ok. All work was performed IAW the TCM IO-550N maintenance manual and the Bendix S6RC-25 maintenance manual. (16) replace induction air filter. Remove old induction filter element and install new Brackett Induction air filter element P/N BA-24, I.A.W. the Cirrus SR22 MM, Chapter 71-60.

Maintenance Release

The aircraft and/or component(s) on 313DG was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service.

DATE: 4/30/2012

SIGNED:

Laurence McKenzie

Work Order: 0274-04-2012

Printed by EBIS 3 (datcommedia.com)

ENGINE MODEL:
IO550N27
ENGINE S/N: 917822
REG. NO: 313DG
WORK ORDER:
0274-04-2012



Performance Flight
136 Tower Lane Hangar M
West Harrison, NY 10804
Phone: 914-397-1444

DATE: 4/30/2012
A/C TSN: 837
ENG TT: 837
TSMOH:
FLIGHTTIME: 837

Engine Entries

(3) Complete Aircraft Annual Inspection of Engine... ENGINE - Completed Annual Inspection in accordance with Cirrus Design Corp Annual Inspection checklist and Teledyne Continental Motors service manual. Performed pre-inspection ground functional check of engine and related systems. Performed compression check 1.) 89/80 2.) 60/80 3.) 70/80 4.) 70/80 5.) 62/60 6.) 66/80. Drained oil and collected sample for analysis, removed oil filter and inspected for contamination, no defects noted. Secured new CH48108-1 oil filter, and serviced engine with 8qts Phillips X/C 20w-50 oil. Cleaned, gapped, rotated, and reinstalled all spark plugs as required. Drained and inspected engine with 8qts Phillips X/C 20w-50 oil. Cleaned, gapped, rotated, and reinstalled all spark plugs as required. and SB's complied with as of 4/26/2012. I certify this engine was inspected in accordance with a Annual Inspection, and has been found to be in an airworthy condition.

Maintenance Release

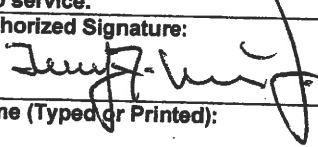
The aircraft and/or component(s) on 313DG was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service.

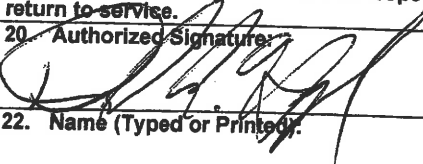
DATE: 4/30/2012

SIGNED:

Laurence McKenzie

Printed by EBIS 3 (datcommedia.com)

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, Airworthiness Approval Tag				3. Form Tracking Number: 46736	
4. Organization Name and Address: Aircraft Systems, Inc. 5187 Falcon Rd. (Repair Station #KC2R947K) Rockford, IL 61109 Phone: (815) 399-0225				5. Work Order/Contract/Invoice Number: 46736			
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Magneto	10-500556-1	N/A	1	D04KA078	Inspected / Repaired	
13. Remarks: 500 hr inspection per TCM X40000 Manual. Replaced contacts, impulse spring, coil, and repacked bearings. AD74-26-09 Iron bushing N/A. AD82-20-01 Soft flyweights N/A by cam P/N/. AD94-01-03R2 Rotor and coil N/A. AD94-06-09 TCM capacitor N/A by date (1012B). AD05-12-06 Impulse inspection N/A by engine type. MSB645 Snap-ring impulse cam installed. SB658 Distributor gear maintenance C/W by inspectoin. CSB665A Capacitor stud N/A by date (1012B). See Aircraft systems, Inc. W.O. 46736 for details. * Eligibility to be verified by installer.							
14. Certifies that items listed above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service. <input type="checkbox"/> Other regulations specified in block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.				
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: KC2R947K	
17. Name (Typed or Printed):		18. Date (mm/dd/yy):		22. Name (Typed or Printed): Terry F. Norris, Jr.		23. Date (Mmm/dd/yyyy): June/21/2012	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of the airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. Approving National Aviation Authority/Country: FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, Airworthiness Approval Tag				3. Form Tracking Number: 46739	
4. Organization Name and Address: Aircraft Systems, Inc. 5187 Falcon Rd. Rockford, IL 61109 Phone: (815) 399-0225				(Repair Station #KC2R947K)		5. Work Order/Contract/Invoice Number: 46739	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Magneto	10-500556-1	N/A	1	D04LA122	Inspected / Repaired	
13. Remarks: 500 hr inspection per TCM X40000 Manual. Replaced contacts, impulse spring, and repacked bearings. AD74-26-09 Iron bushing N/A. AD82-20-01 Soft flyweights N/A by cam P/N. AD94-01-03R2 Rotor and coil N/A. AD94-06-09 TCM capacitor N/A by date (1012B). AD05-12-06 Impulse inspection N/A by engine type. MSB645 Snap-ring impulse cam installed. SB658 Distributor gear maintenance C/W by inspectoin. CSB665A Capacitor stud N/A by date (1012B). See Aircraft systems, Inc. W.O. 46739 for details. * Eligibility to be verified by installer.							
 Certifies the items listed above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13. 				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service. <input type="checkbox"/> Other regulations specified in block 13. Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.			
16. Authorized Signature:		18. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: KC2R947K	
17. Name (Typed or Printed):		18. Date (mm/dd/yyyy):		22. Name (Typed or Printed): David L. Harshbarger		23. Date (Mmm/dd/yyyy): June/21/2012	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of the airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							



Travel Express Aviation Maintenance, Inc
DuPage Airport, West Chicago, IL 60185
Aircraft: 313DG Date: 6/25/12 Invoice: 4235

HOBBS: 847.5

The following work was accomplished:

The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. A new filter P/N CH48108-1 was installed. The engine was serviced with 8 qts. of Phillips XC 20W50 oil. The engine was run and checked for leaks (none apparent). An oil sample was taken. Removed magneto P/N 10-500556-1, S/N D04KA078 and P/N 10-500556-1, S/N D04LA122, and reinstalled after 500 hour inspection by Aircraft Systems, Inc, 5187 Falcon Rd, Rockford, IL 61109. RS# KC2R947K, WO# 46739. See FAA form 8130-3 dated, 21 June 2012 for details.

Compression Check: CYL: #1 76/80, #2 77/80, #3 77/80, #4 76/80, #5 78/80, #6 76/80.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.


Mark Palazzo, AP 3301111A

End

Oil Change @ 872.9 hrs. - sticker in Aircraft log Assy

ENGINE MODEL:
ENGINE S/N:
REG. NO: 313DG
WORK ORDER:
5501-01-2013



Aviation Maintenance, Inc.
1098 S. Milwaukee #301
Wheeling, IL 60090
Phone: 847-541-4752

DATE: 1/24/2013
A/C TSN: 927.2
ENG TT: 
HOBBS: 927.2

Engine Entries

Drained oil and changed filter (pn CH48108-1. Took sample and sent for analysis. Serviced engine with 8 qts. Exxon Elite 20W50 oil. Ran engine and checked for leaks. None detected.

Maintenance Release

The aircraft and/or component(s) on 313DG was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair facility under Work Order No. 5501-01-2013.

DATE: 1/24/2013

SIGNED: 

Dallgood, IA, 2838751

Work Order: 5501-01-2013
Printed by EBIS 3 (datcomedia.com)

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	←			




Travel Express Aviation Maintenance, Inc
 DuPage Airport, West Chicago, IL 60185
 Aircraft: N313DG Date: 05/04/13 Invoice: 4827

TT A/F 945.8 HOBBS: 945.8 TT ENG: 945.8

This engine has been given an annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R., Part 43, Appendix D, and 91, Subpart E.

- The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. A new filter p/n CH48108-1 was installed. The engine was serviced with 8 qts. of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent).
- Removed, inspected, cleaned, gapped and re-installed spark plugs using new gaskets p/n M674.
- Compression Test: Cyl #1 – 68/80, #2 – 67/80, #3 – 74/80, #4 – 69/80, #5 – 69/80, #6 – 70/80.
- Timed magnetos.
- Removed and replaced three EGT probes with new P/N 16579-002.
- The current status of applicable ADs was researched through 2013-10.

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


 Kenneth Morgan III, AP 322829269 IA End




Travel Express Aviation Maintenance, Inc
 DuPage Airport, West Chicago, IL 60185
 Aircraft: N313DG Date: 9/13/13 Invoice: 5064

HOBBS: 1038.6

The following work was accomplished:

- The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. A new filter P/N CH48108-1 was installed. The engine was serviced with 8 qts. of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent).
- Removed and replaced starter adapter with overhauled unit P/N 642083A12, S/N 311022 using new gaskets P/N 653470.
- Removed and replaced fuel pump with rebuilt unit P/N 655921-6A1, S/N B13HA182R using new gasket P/N 649982.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.


 Scott Moler, AP 2740376 End

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				



Travel Express Aviation Maintenance, Inc
DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Date: 9/13/13 Invoice: 5064
HOBBS: 1038.6

The following work was accomplished:

- Accomplished SID97-3 after installation of fuel pump P/N 655921-6A1, S/N B13HA182R.
- All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

Mark Palazzo, AP 3200411 IA End



Travel Express Aviation Maintenance, Inc
DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Date: 03/27/14 Invoice: 5566
HOBBS: 1086.4

The following work was accomplished:

- The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. A new filter P/N CH48108-1 was installed. The engine was serviced with 8 qts. of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent).
- All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

Caleb Mdakenschnabl, AP 3701092 END

Date



rd
ions,

Brought For

Travel Express Aviation Maintenance, Inc
DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Date: 6/06/14 Invoice: 5597

AFTT: 1111.0 ENG TT: 1111.0 ELT BATT DUE: 6/2015 ALT/STATIC: 6/2015
HOBBS: 1111.0 PROP TT: 1111.0 ELT INSP DUE: 6/2015 XPONDER: 6/2015

This engine has been given an annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R., Part 43, Appendix D, and 91, Subpart E.

- The engine oil was drained, the filter element removed, opened, and inspected. No foreign matter or metal particles were found. A new filter P/N CH48108-1 was installed. The engine was serviced with 8 qts. of Exxon Elite 20W/50 oil. The engine was run and checked for leaks (none apparent).
- Removed, cleaned, gapped, tested, inspected, and reinstalled spark plugs using new gaskets P/N M674.
- Compression Test: Cyl #1 - 70/80, #2 - 56/80, #3 - 61/80, #4 - 62/80, #5 - 64/80, #6 - 65/80.
- The current status of the ADs was checked through 2014-12.
- AD 2014-05-29, eff: 4/25/14, SAP Investment Cast Cylinders. N/A by S/N.

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

Mark Palazzo, AP 3201711A

END



Travel Express Aviation Maintenance, Inc
DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Date: 8/29/14 Invoice: 5953

HOBBS: 1122.6

The following work was accomplished:

- Removed and replaced rocker gaskets with new P/N 655705.
- Compression Test: Cyl #1 - 69/80, #2 - 70/80, #3 - 68/80, #4 - 72/80, #5 - 68/80, #6 - 72/80. Master orifice: .040 - 45 PSI
- Removed magnetos P/N 10-500556-1, S/N D0AKA078 and S/N D04LA122. Replaced with rebuilt magnetos P/N BL-500556-1, RH S/N D14HA185R and LH S/N D14HA158R. For details, see FAA form 8130-3 from Continental Motors, Inc., 2039 Broad Street, Mobile, AL 36615, RS# PQ1269CE, W/O# 424619.
- Removed and replaced magneto gaskets with new P/N 649954.
- Removed and replaced spark plugs with new P/N URH832E.
- Removed and replaced ignition harness with new P/N 10-423674-19, S/N K14H.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

Mark Palazzo, AP 3201711A

END

1. Approving Aviation Authority/Country:
FAA/United States

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

364008

4. Organization Name and Address

Continental Motors, Inc. 2039 Broad Street, Mobile, Alabama 36615

FAA/PMA: PQ1269CE

5. Work Order/Contract/Invoice Number:

424619

0000156360

6. Item:	7. Description	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	KIT-IGNITION SYSTEM, S6RSC-25,	BL-400352	1	See Block 12	See Block 12

12. Remarks:
Rebuilt to Original PAH's Specifications in accordance with 14 CFR §43.3(j). This 8130 issued to correct part identification on FTN 357076.

Serial/Batch Number(s):
Serial Description
D14HA185R MAG
D14HA168R MAG

13a. Certify the items identified above were manufactured in conformity to:
 Approved design data and are in condition for safe operation.
 Non-approved design data specified in Block 12.

14a. 14 CFR 43.9 Return to Service Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature: <i>Daniel L. Nicholas</i>	14c. Approval/Certificate No.:
13d. Name (Typed or Printed):	13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): Daniel L. Nicholas	14e. Date (dd/mm/yyyy): 24/Sep/2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

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				



Travel Express Aviation Maintenance, Inc
 DuPage Airport, West Chicago, IL 60185
 Aircraft: N313DG Date: 2/27/15 Invoice: 6266

AFTT: 11674 ENG TT: 11674 ELT BATT DUE: 02/2016 ALT/STATIC: 06/2016
 HOBBS: 11674 PROP TT: 11674 ELT INSP DUE: 02/2016 XPONDER: 06/2016

This engine has been given an annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R., Part 43, Appendix D, and 91, Subpart E.

- The engine oil was drained, the filter element removed, opened, and inspected. No foreign matter or metal particles were found. A new filter P/N CH48108-1 was installed. The engine was serviced with 8 qts. of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent). Removed, cleaned, gapped, tested, inspected, and reinstalled spark plugs using new gaskets P/N M674.
- Compression Test: Cyl #1 - 72/80, #2 - 76/80, #3 - 68/80, #4 - 72/80, #5 - 64/80, #6 - 72/80. Master orifice: .040 - 45 PSI.
- Adjusted magnet to timing to 22 degrees BTDC. OK for service.
- Removed and cleaned fuel injectors. Replaced using new o-rings P/N 630979-9, new gaskets P/N X1473, and new washers P/N 640612 and P/N 628556.

CONTINUED



Travel Express Aviation Maintenance, Inc
 DuPage Airport, West Chicago, IL 60185
 Aircraft: N313DG Date: 2/27/15 Invoice: 6266

- The current status of the ADS was checked through 2015-04.
 - AD 2005-12-06, eff. 7/19/05, Mag Impulse Coupling. C/W per AD Instructions. Next due at Hobbs 1622.6.

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

Mark Palazzo
 Mark Palazzo, AP 32031 IA

END

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 For					



Travel Express Aviation Maintenance, Inc
Dupage Airport, West Chicago, IL 60185

Aircraft: N313DG Date: 8/18/15 Invoice: 6656

HOBBS: 1224.7

The following work was accomplished:

- The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. Installed and safetied new oil filter P/N CH48108-1. Serviced engine with 8 qts of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent).
- Performed oil analysis.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

WJ Cherwin
William Cherwin, AP 3773544 END



Travel Express Aviation Maintenance, Inc
Dupage Airport, West Chicago, IL 60185

Aircraft: N313DG Date: 8/18/15 Invoice: 6656

HOBBS: 1224.7

The following work was accomplished:

- Removed fuel injector lines, fuel injectors, and o-rings. Cleaned and inspected injectors. Reinstalled cylinder specific injectors using new gaskets P/N X1473, new o-rings P/N 630979-9, and new washers P/N 640612. Test ran. Ok for service.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

WJ Cherwin
William Cherwin, AP 3773544 END



Travel Express Aviation Maintenance, Inc.
DuPage Airport, West Chicago, IL 60185

AFTT: 1259.7 Hobbs: 1259.7 Aircraft: 313DG Eng TT: 1259.7 Model: Cirrus SR22 Serial: 1592 Invoice: 7037/7039W

Date: 1/21/16

This engine has been given a 100-hour/annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R., Part 43, Appendix D, and 91, Subpart E.
 • The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. Installed and safetied new oil filter P/N CH48108-1. Serviced engine with 8 qts of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent). Performed oil analysis.
 • Removed, cleaned, gapped, tested, inspected, and reinstalled spark plugs using new gaskets P/N M674.
 • Compression test: Cylinder #1-66/80, #2-66/80, #3-65/80, #4-67/80, #5-63/80, #6-65/80; master orifice .040-47 PSI.
 • Retined LH and RH magnetos to 22 degrees.
 • Removed and replaced #2 EGT probe with new P/N 16579-002.
 • The current status of applicable ADS checked through 2016-01.
 I certify that this ENGINE has been inspected in accordance with a 100-hour/annual inspection and was determined to be in AIRWORTHY condition.

Mark Palazzo
Mark Palazzo, AP 320221A END



OIL REPORT

LAB NUMBER: G97761 UNIT ID: N313DG
 REPORT DATE: 8/26/2015 CLIENT ID: 28005
 CODE: 2075 PAYMENT: CC: Visa

MAKE/MODEL: Continental IO-550
 FUEL TYPE: Gasoline (Leaded)
 ADDITIONAL INFO: Citrus SR22, Eng SN 9177822

OIL TYPE & GRADE: Exxon Elite 20W/50 (AD)
 OIL USE INTERVAL: 60 Hours

CLIENT
 MATT MUKENSCHNABL
 TRAVEL EXPRESS AVIATION
 3N060 POWIS RD
 Between Powis Ct and North Ave
 WEST CHICAGO, IL 60185

PHONE: (630) 584-2677
 FAX:
 ALT PHONE:
 EMAIL: teamacmx@yahoo.com, info@teamaintenance.com

COMMENTS
 MATT: We haven't seen a sample from N313DG in over 3 years, so it might not be very useful to compare these wear levels to those on the previous report (not to mention -- this was also a much longer run). In any case, metals are above average here, but that's not surprising after this very long run, and at least they're properly balanced. Universal averages are based on ~35 hours of oil use, so even though these levels are higher, we don't suspect any mechanical issues or poorly wearing parts in this IO-550. No contamination turned up. Looks ok from what we can see.

ELEMENTS IN PARTS PER MILLION	MIL/HR OR OIL MIL/HR OR LTR Sample Date: 8/17/2015 Make-Up Oil Added:		UNIT / LOCATION: AVERAGES:	UNIVERSAL AVERAGES:	
	ALUMINUM	13	6	3	8
CHROMIUM	11	7	3	8	8
IRON	70	80	30	8	8
COPPER	10	6	2	8	8
LEAD	10160	5920	1697	8	8
TIN	0	0	1	0	0
MOLYBDENUM	4	3	2	4	4
NICKEL	16	10	3	9	9
MANGANESE	1	1	0	1	1
SILVER	0	0	0	0	0
TITANIUM	0	0	0	0	0
POTASSIUM	0	0	0	0	0
BORON	1	0	0	1	1
SILICON	2	0	8	7	7
SODIUM	4	0	0	1	1
CALCIUM	6	0	6	19	19
MAGNESIUM	0	0	2	2	2
PHOSPHORUS	1065	537	8	2	2
ZINC	6	4	2	6	6
BARIUM	0	0	0	0	0

Values
Should Be*

PROPERTIES	97.5	69-108	91.5	18.33
SUS Viscosity @ 210°F	97.5	69-108	91.5	18.33
cSt Viscosity @ 100°C	19.78	17.7-23.8	18.33	
Flashpoint in °F	460	>449	470	
Fuel %	<0.5	<1.0	<0.5	
Antifreeze %	-	-	-	
Water %	0.0	<0.1	0.0	
Insolubles %	0.4	<0.6	0.3	
TBN				
TAN				
ISO Code				

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE
 416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



OIL REPORT

LAB NUMBER: H28307 UNIT ID: N313DG
 REPORT DATE: 1/25/2016 CLIENT ID: 28005
 CODE: 20/32 PAYMENT: CC: Visa

MAKE/MODEL: Continental IO-550 OIL TYPE & GRADE: Exxon Elite 20W/50 (AD)
 FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 35 Hours
 ADDITIONAL INFO: Cirrus SR22, Eng SN 917822

CLIENT: MATT MUKENSCHNABL
 TRAVEL EXPRESS AVIATION
 3N060 POWIS RD
 WEST CHICAGO, IL 60185
 PHONE: (630) 584-2677
 FAX:
 ALT PHONE:
 EMAIL: info@teammaintenance.com

COMMENTS: MATT: This run was about the same interval as averages for this type engine, and wear metals all came in at good levels. We expect some fluctuation of a few parts per million on the elements either way, so we'd say N313DG's engine is wearing well with no internal problems that we can see. The oil's physical properties were good with the appropriate viscosity and no measurable contamination from fuel or moisture. The low insolubles show us that the oil filter is doing its job, and silicon shows that the air filter is in fine shape as well. Looks good at 1,259.7 hours!

ELEMENTS IN PARTS PER MILLION	UNIT / LOCATION AVERAGES		UNIVERSAL AVERAGES	
	1259.7	1259.7	1259.7	1259.7
ALUMINUM	9	13	3	9
CHROMIUM	9	11	3	9
IRON	60	70	30	60
COPPER	7	10	2	7
LEAD	7867	10160	1697	7867
TIN	2	0	1	2
MOLYBDENUM	3	4	2	3
NICKEL	14	16	3	14
MANGANESE	1	1	0	1
SILVER	0	0	0	0
TITANIUM	0	0	0	0
POTASSIUM	4	0	0	4
BORON	2	1	0	2
SILICON	3	2	8	3
SODIUM	3	4	0	3
CALCIUM	5	6	6	5
MAGNESIUM	0	0	2	0
PHOSPHORUS	1148	1065	8	1148
ZINC	5	6	2	5
BARIUM	0	0	0	0

Values Should Be*

PROPERTIES	93.8	97.5	91.5		
SUS Viscosity @ 210°F	93.8	97.5	91.5		
CSt Viscosity @ 100°C	18.88	19.78	18.33		
Flashpoint in °F	455	460	470		
Fuel %	<0.5	<0.5	<0.5		
Antifreeze %	-	-	-		
Water %	0.0	0.0	0.0		
Insolubles %	0.2	0.4	0.3		
TBN					
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE
 416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com

Dc



Travel Express Aviation Maintenance, Inc.

DuPage Airport, West Chicago, IL 60185
Aircraft: 313DG Model: Cirrus SR22 Serial: 1592 Invoice: 7037/7039W

Brought F

Date: 2/1/16

Hobbs: 1259.7 Eng TT: 1259.7

AFTT: 1259.7 Aircraft: 313DG Hobbs: 1259.7 Eng TT: 1259.7
This engine has been given a 100-hour/annual inspection in accordance with the manufacturer's checklist and following the guidelines of the F.A.R. Part 43, Appendix D, and 91, Subpart E.
• The engine oil was drained, the filter element removed, opened and inspected. No foreign matter or metal particles were found. Installed and safetied new oil filter P/N CH48108-1. Serviced engine with 8 qts of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent). Performed oil analysis.
• Removed, cleaned, gapped, tested, inspected, and reinstalled spark plugs using new gaskets P/N M674.
• Compression test: Cylinder #1-66/80, #2-66/80, #3-65/80, #4-67/80, #5-63/80, #6-65/80; master orifice .040-47 PSI.
• Retimed LH and RH magnetos to 22 degrees.
• Removed and replaced #2 EGT probe with new P/N 16579-002.
• The current status of applicable ADS checked through 2016-01.
I certify that this ENGINE has been inspected in accordance with a 100-hour/annual inspection and was determined to be in AIRWORTHY condition.

Mark Palazzo

Mark Palazzo, AP 3201711 IA

END

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ctions,



Travel Express Aviation Maintenance, Inc.

DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Model: Cirrus SR22 Serial: 1592 Invoice: 7215

Hobbs: 1272.5

The following work was accomplished:
• Removed fuel injector line to #2 cylinder. Removed fuel injector and inspected. Ultrasonic cleaned fuel injector. Reinstalled injector. Flushed fuel line and reinstalled on injector. Test ran engine; okay for service.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

William Chernin
Caleb Mulkenschabl, AP 3701092

END



Travel Express Aviation Maintenance, Inc.

DuPage Airport, West Chicago, IL 60185
Aircraft: N313DG Model: Cirrus SR22 Serial: 1592 Invoice: 7609

Hobbs: 1301.6

The following work was accomplished:
• The engine oil was drained, the filter element removed, opened and inspected. Took sample. No foreign matter or metal particles were found. Installed and safetied new oil filter P/N CH48108-1. Serviced engine with 8 qts of Exxon Elite 20W50 oil. The engine was run and checked for leaks (none apparent). Performed oil analysis.
All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.

William Chernin
William Chernin, AP 3713544

END



OIL REPORT

LAB NUMBER: H87241 UNIT ID: N313DG
 REPORT DATE: 10/26/2016 CLIENT ID: 28005
 CODE: 20/32 PAYMENT: CC: Visa

UNIT MAKE/MODEL: Continental IO-550-N OIL TYPE & GRADE: Exxon Elite 20W/50 (AD)
 FUEL TYPE: Gasoline (Leaded) OIL USE INTERVAL: 42 Hours
 ADDITIONAL INFO: Cirrus SR22, Eng S/N: 917822

CLIENT MATT MUKENSCHNABL PHONE: (630) 584-2677
 TRAVEL EXPRESS AVIATION FAX:
 3N060 POWIS RD ALT PHONE:
 WEST CHICAGO, IL 60185 EMAIL: Info@teammaintenance.com

COMMENTS
 MATT: Nickel jumped up this time for no good reason, so we decided to highlight it. This might be the early indication of poor wear at exhaust valve guides, though with any luck, it will just turn out to be a temporary anomaly. Iron is in the same boat, though not quite high enough to mark yet. If it increases again like this next time, we'll let you know. All of the other results for this sample were fine. No harmful contamination showed up and insolubles were okay, so the oil filter was able to keep up with oil oxidation and blow-by. Check back next oil change to monitor.

MIL/HR OR OIL	42	UNIT / LOCATION AVERAGES	35	60	13	UNIVERSAL AVERAGES
Mil/HR on Unit	1,302		1,260	1,225	847	
Sample Date	10/19/2016		1/19/2016	8/17/2015	6/12/2012	
Make Up Oil Added						
ALUMINIUM	9		9	13	3	7
CHROMIUM	12		9	11	3	8
IRON	73		60	70	30	48
COPPER	6		7	10	2	6
LEAD	7215		7867	10160	1697	5840
TIN	1		2	0	1	1
MOLYBDENUM	4		3	4	2	3
NICKEL	23		14	16	3	11
MANGANESE	1		1	1	0	1
SILVER	0		0	0	0	0
TITANIUM	1		0	0	0	0
POTASSIUM	1		4	0	0	1
BORON	1		2	1	0	1
SILICON	3		3	2	8	6
SODIUM	0		3	4	0	1
CALCIUM	5		5	6	6	39
MAGNESIUM	0		0	0	2	1
PHOSPHORUS	814		1148	1065	8	474
ZINC	4		5	6	2	7
BARIUM	0		0	0	0	0

Values Should Be*

PROPERTIES	92.3	89-105	93.8	97.5	91.5
SUS Viscosity @ 210°F	18.53	17.7-21.8	18.88	19.78	18.33
cSt Viscosity @ 100°C	485	>445	455	460	470
Flashpoint in °F	<0.5	<1.0	<0.5	<0.5	<0.5
Fuel %	-	-	-	-	-
Antifreeze %	0.0	<0.1	0.0	0.0	0.0
Water %	0.3	<0.6	0.2	0.4	0.3
Insolubles %					
TBN					
TAN					
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

STD STL

SERVICEABLE

(COMPONENTS)

Dcyl Valve Assy

TCM

COMPONENT NAME

MFG. NAME

IO-550

Per 8319

MODEL or TYPE

SERIAL NO.

REPAIRED CONTACTED TESTED INSPECTED

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

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

OWNER: Travel Express Aviation Maintenance

WORK ORDER No. 8319 DATE 2-28-17

SIGNED FOR:

[Signature]

POPPLAR GROVE AIRMOTIVE, INC.
11619 U. S. ROUTE 76
POPPLAR GROVE, IL 61065

FAA Approved Repair Station #YYBR664L

Supplied ① IO-SSO CYL
Core Installed new ex
pvide, ground seats and
valves, honed bore. Fit and
installed new rings and
existing piston. repaired
IAW Manual # M-16

END