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MAINTENANCE
RECORDKEEPING
SYSTEM

**ENGINE
MAINTENANCE
RECORDS**



ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. 3135R

Engine Manufacturer Teledyne CONTINENTAL

Model IO 550 N 42B

Serial No. 689730

Date installed on aircraft 05/2006

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

- Right Left
 Front Rear



AEROTECH PUBLICATIONS INC.

www.adlog.com

5500 W. 110th Street, Overland Park, KS 66207-0045

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page



DATE: 4-25-08
INV. 3777

N313SR
ENGINE

MODEL: SR-22
HOBBS: 411.3 FLT; 305.1

1. ENGINE INSPECTED USING CIRRUS SR-22 MAINTENANCE MANUAL 100HR. MAINTENANCE MANUAL CHECKLIST AND THE SCOPE AND DETAIL OF FAR-43 APP-D AS GUIDES.
2. PERFORMED ENGINE GROUND FUNCTIONAL TEST, ENGINE WARMED TO OPERATING TEMPERATURES.
3. PERFORMED COMPRESSION TEST #1) 78/80 #2) 80/80 #3) 80/80 #4) 76/80 #5) 74/80 #6) 78/80.
4. DRAINED OIL, REMOVED, OPENED AND INSPECT FILTER, NO METALS FOUND, SAMPLE SENT OUT FOR ANALYSIS
5. SECURED NEW AA48108 OIL FILTER.
6. SERVICED ENGINE WITH 8QTS. PHILLIPS XC 20W50 OIL.
7. SERVICED ALL FUEL INJECTOR NOZZLES, DUE EA. 300HRS. OR ANNUAL.
8. SERVICED ALL SPARK PLUGS.
9. SECURED NEW #6 EXHAUST HEADER WITH NEW GASKETS AND HARDWARE AS REQUIRED.
10. SECURED NEW #1 EXHAUST HEADER WITH NEW GASKETS AND HARDWARE AS REQUIRED.
11. DE-GREASED ENGINE COMPARTMENT.
12. COMPLIED WITH T.C.M. MSB# 97-3C FUEL FLOW ADJUSTMENTS, DUE EA. 100HRS. OR ANNUAL.
13. A.D'S CHECKED THRU 4-08.
14. PERFORMED POST INSPECTION GROUND FUNCTIONAL TEST, FOUND AIRWORTHY.
15. I CERTIFY THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION.

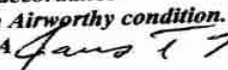
MICHAEL PUGNI AP# 116583079 *[Signature]*
BERNARD PAQUETTE AP# 445400371A *[Signature]*

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

North East Aero
97 Hangar RD Montgomery NY, 12549 (845) 457-1184
Cirrus Design SR22 N313SR S/N 1978
Hobbs Time: 499.8 Flight Hobbs: 371.4
S/N: 689730

24, April 2009
TCM IO-550N

1. Completed Annual Inspection IAW Cirrus Design 100hr/Annual Inspection checklist and Teledyne Continental Motors service manual.
2. Ran engine and recorded cylinder compressions: 1) 76/80 2) 75/80 3) 71/80 4) 70/80 5) 74/80 6) 72/80
3. Drained oil, retained sample for analysis, removed oil filter (P/N: CH48108) cut and inspected with no contamination noted. Installed new filter, safety wired and added 8qts Aeroshell 15W-50 oil.
4. Cleaned, gapped and rotated all spark plugs as required.
5. Drained and inspected gascolator with no contamination noted.
6. Inspected all oil lines and fittings.
7. Adjusted magneto to engine timing as required.
8. Removed and replaced starter boot with new. (P/N: MS25171-4S)
9. Removed and replaced induction air filter element with new (P/N: BA-24).
10. Completed AD list and complied with all outstanding AD's as required. Reference AD list dated 04/09.

*I certify this Engine was inspected in accordance
with a 100hr/Annual inspection, and found to in Airworthy condition.*
James T. Markey 31668721A 

ENGINE MODEL:
IO-550-N42
ENGINE S/N: 689730
REG. NO. N313SR
WORK ORDER:
04844-04-2009

US Flight Aircraft Maintenance
136 Tower Rd
White Plains, NY 10604
Phone: 914-288-8088

DATE: 18 May, 2009
A/C TSN: 504.3
ENG TT: 374.2
FLIGHTTIME: 374.2

Engine Entries

(1) Performed visual inspection of cylinders IAW TCM SID 97-2B. Found cyl #1 piston to be severely pitted. Further inspection and disassembly required as per TCM.... (2) Removed cyl #1 pn: 655932A3 sn: AC06BA102 from engine for inspection. Upon inspection, determined cylinder unairworthy due to hard particle passage through the cylinder. All work performed IAW TCM IO-550-N Overhaul Manual CH:15-1A.... (3) Disassembled induction tubes and inspected for signs of hard particle passage through the induction system, no defects noted. Reassembled induction assembly and torqued to spec. All work performed IAW TCM IO-550-N MM.... (4) Drained engine oil, filtered through screen, and performed visual inspection of oil for any debris, no debris noted. Removed oil filter, cut open, and performed visual inspection for any debris, no debris noted. Installed, torqued, and secured new AA48108 oil filter, and serviced engine with 8 Qts Phillips X/C 20w-50 oil.... (5) Installed new piston pn: 654857 with new ringset pn: 654716 on connecting rod with new piston pin pn: SA630046. Installed new cylinder & valve assembly pn: 655932A4 sn: AC09AB098 and secured. Resecured exhaust system and baffles. Performed ground functional check of work performed, no defects noted. All work performed IAW TCM IO-550-N Maintenance Manual CH:19-34.... (6) Removed cyl #1 connecting rod pn: 655911 from engine and sent out for repair. Conn rod repaired by Pine Mountain Aviation LLC, reference w/o: 1265. Conn rod reinstalled in engine and torqued to spec as per TCM SB96-7C, Torque Limits. All work performed IAW TCM IO-550-N Overhaul Manual.

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

DATE: 18 May, 2009

SIGNED: 
Christopher A Szabo, A&P. P 3277499

Work Order: 04844-04-2009

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TOTALS brought forward from previous page

ENGINE MODEL:
IO-550-N42
ENGINE S/N: 689730
REG. NO. N313SR
WORK ORDER:
04891-05-2009

US Flight Aircraft Maintenance

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

DATE: 18 May, 2009
A/C TSN: 505.8
ENG TT: 374.2
FLIGHTTIME: 374.4

Engine Entries

(1) Removed engine cowl, and cyl #1 spark plugs. Found cyl #1 bottom plug fouled with carbon. Cleaned, gapped, and visually inspected sparkplug, no defects noted, reinstalled sparkplug with new P1003-100 gasket. Performed ground functional check of work performed, no defects noted. All work performed IAW TCM IO-550-N MM.

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

DATE: 18 May, 2009

SIGNED:

Christopher A Szabo, A&P, P 3277499

Work Order: 04891-05-2009

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
IO-550-N42
ENGINE S/N: 689730
REG. NO. N313SR
WORK ORDER:
05638-04-2010

US Flight Aircraft Maintenance

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

DATE: 27 April, 2010
A/C TSN: 562.8
ENG TT: 562.8
FLIGHTTIME: 420.8

Engine Entries

(2) Mailed obtained sample for analysis to Aviation Laboratories.... (4) Tighten oil pressure transducer to proper torque. Ran A/C and monitored for leaks. None found.... (5) Removed ALT#1 due to oil leak. P/N 649804 S/N 0060A007. Installed Quality Aircraft FAA QYIR334Y Track# 62255 OH P/N 646843 S/N 007BA101. All work performed IAW Cirrus SR-22 AMM 24-30. Performed ground functional checks found good.... (6) Removed prop, cleaned corrosion on exterior crank shaft between prop flange and engine case. Applied primer on surface and painted. Secured prop IAW Cirrus AMM 61-10.... (10) C/W TCM SID 96-3E Perform procedures and specification for adjustment of Teledyne Continental Motors continuous flow fuel injection systems.... (11) Removed Brackett air filter BA-111. Installed Challenger filter CPE1178 in accordance with STCSA01669CH. See form 337 for details.... (15) Cleaned Fuel injectors IAW TCM SB-06-1A. Performed satisfactory ground functional checks.

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

DATE: 27 April, 2010

SIGNED:

Bernard Paquette, IA: 445400371A

Work Order: 05638-04-2010

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ENGINE MODEL: IO-550-N42
ENGINE S/N: 689730
REG. NO: N313SR
WORK ORDER: 05637-04-2010

US Flight Aircraft Maintenance

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

DATE: 27 April, 2010
A/C TSN: 562.8
ENG TT: 562.8
FLIGHTTIME: 420.8

Engine Entries

2 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 cyl dif press test, results as follows, # 1)78, #2)76, # 3)75, #4)75, #5) 76, #6) 77. Drained engine oil, removed and cut open filter. No abnormal debris noted. Secured new AA48108-2 filter and serviced engine with 8 Qts Phillips X/C 20/50 oil. Cleaned rotated and secured spark plugs. Performed satisfactory ground functional checks. I CERTIFY THIS ENGINE HAS BEEN INSPECTED 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: 27 April, 2010

SIGNED:

Bernard Paquette, IA: 445400371A

Work Order: 05637-04-2010

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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TOTALS brought forward from previous page

ENGINE MODEL IO-550-N42
ENGINE S/N 689730
REG NO N313SR
WORK ORDER 06614-05-2011

US Flight Aircraft Maintenance
136 Tower Rd
White Plains, NY 10604
Phone 914 288-8088

DATE 02 June 2011
A/C TSN 5987
ENG TT 448.3
TSMOH
FLIGHTTIME 448.3


Engine Entries

- 1 NO MANIFOLD PRESSURE READING DURING GROUND RUN RPM BELOW 1800 AND @ FULL POWER MAP READS ONLY 4.8 INCHES HG Trouble shot and found failed MAP sensor; replaced sensor with new P/N 12835-001 IAW Cirrus SR-22 AMM 77-10. Performed satisfactory ground functional checks
- 3 FUEL INJECTOR NOZZLES SERVICE DUE EA 300 HRS OR ANNUALLY PER CIRRUS SR-22 AMM 5-20 CHECKLIST, TCM IO-550-N 300HR MM REQUIREMENTS WHICH CONSTITUTES THAT BE DONE EVERY ANNUAL CHAP 5-4 Serviced and secured nozzles per TCM SB# 96-7C
- 31 #6 EXHAUST, #1 EXHAUST ROCKER BOX COVER GASKETS WORN AND LEAKING OIL... Tightened all rocker box cover screws on #6, IAW TCM SB 96-7C.
- Run engine leak checks airworthy
- 35 REPLACE ALL SPARK PLUGS ON ENGINE... Replaced 12 spark plugs P/N URHB32E.

The work performed has been approved for return to service.

DATE: 02 June, 2011

SIGNED:



Bernard Paquette, A&P 44540037IA

Work Order 06614-05-2011

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ENGINE MODEL IO-550-N42
ENGINE S/N 689730
REG NO N313SR
WORK ORDER 06624-05-2011

US Flight Aircraft Maintenance
136 Tower Rd
White Plains, NY 10604
Phone 914 288-8088

DATE 02 June, 2011
A/C TSN 5987
ENG TT 448.3
TSMOH
FLIGHTTIME 448.3

Engine Entries

(2) C/W 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)77, #2)76, # 3)76, #4)75, #5) 74, #6) 77

Drained engine oil, removed and cut open filter. No abnormal debris noted.

Secured new AA48108-2 filter and serviced engine with 8 Qts Phillips X/C 20/50 oil

Secured new spark plugs

Performed satisfactory ground functional checks. AD's & MSB's ck thru 5-30-11

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: 02 June, 2011

SIGNED:



Bernard Paquette, IA 44540037IA

Work Order 06624-05-2011

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Engine Logbook Entry	Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884						Authorized Cirrus Service Center
Date	N' Number	Make/Model	Serial#	Flight	Hobbs	Total Time	W. O.
6/29/2012	N313SR	IO-550-N42	689730	471.6	629.0	471.6	7173
Changed oil filter cut open old filter, no metal found. Oil sample taken. Borescoped cylinders no defects noted. Spark plugs cleaned and gapped. Magnetos removed and reinstalled after 500 Hour inspection by G&N Aircraft see maintenance release tags in aircraft records. #1 76/80, #2 68/80, #3 74/80, #4 68/80, #5 68/80, #6 68/80. Engine washed and run-up checked OK. I certify that this engine has been inspected in accordance with an Annual Inspection and determined to be in an airworthy condition. I certify that the work described above was performed in accordance with approved/acceptable data and is approved for return to service with regard to work performed.							
Authorized Signature: 				Steven VanderValk A&P 2919106 IA			

ENGINE MODEL:
IO-550N(42)
ENGINE S/N: 689730
REG NO: 313SR
WORK ORDER:
0265-04-2012



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

DATE: 4/18/2012
A/C TSN: 426.6
ENG TT: 426.6
TSMOH:
FLIGHTTIME: 426.6

Engine Entries

(1) Perform oil change to engine... Performed oil change to Drained oil ,samples taken hot.Filters cut opened and inspected, no metal particle found. Installed 1 New CH48108-1 oil filter and serviced engine with 8 quarts of Phillips X/C 20W50 Oil.Run up Ops check O.K. checked for leaks none found. All work performed I.A.W. Continental IO550N service manual.

DATE: 4/18/2012

SIGNED:

Laurence McKenzie, A&P: 3039316

Work Order: 0265-04-2012

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ENGINE MODEL:
IO-550N(42)
ENGINE S/N: 689730
REG NO: 313SR
WORK ORDER:
0836-06-2013



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

DATE: 7/1/2013
A/C TSN: 661.1
ENG TT: 491.7
TSMOH:
FLIGHTTIME: 491.7

Engine Entries

(2) Annual inspection due on engine.... ENGINE- Completed Annual Inspection in accordance with Cirrus Design Corp 100HR Inspection checklist and Teledyne Continental Motors service manual. Performed pre-inspection ground functional check of engine and related systems. Performed compression check 1.)77/80 2.)60 /80 3.)70 /80 4.)60/80 5.)68 /80 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 20w-50 Mineral 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 AD & SB search, all AD's & SB complied with as of 07-01-2013. I certify this engine was inspected in accordance with an Annual inspection, and has been found to be in an airworthy condition at this time.

DATE: 7/1/2013

SIGNED:

Lou Duquette, IA: 3041337

Work Order: 0836-06-2013

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ENGINE MODEL:
IO-550N(42)
ENGINE S/N: 689730
REG NO: 313SR
WORK ORDER:
0836-06-2013



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

DATE: 7/1/2013
A/C TSN: 661.1
ENG TT: 491.7
TSMOH:
FLIGHTTIME: 491.7

Engine Entries

(4) Customer requests boroscope to be performed on all engine cylinders.... Performed borescope inspection on all cylinders and found them to be in satisfactory condition. I.A.W. the Teledyne Continental Aircraft Engine IO-550-N MM.... (10) Perform the Fuel Injector Nozzle cleaning 300 Hour / Annual... Performed the Fuel Injector Nozzle cleaning @ 300 Hour/ Annual inspection I.A.W the Cirrus SR22 MM. Chapter 5 Inspection checklist and the Teledyne Continental Motors IO-550-N MM.... (11) Left magneto is timed @ 24 1/2*BTDC,... Adjusted the Magneto to Engine Timing to 22 Degrees BTC. I.A.W. the Continental IO-550-N MM.... (15) Perform Teledyne Continental Aircraft Engine Service Information Directive SID97-3E,
Subject: Procedures and Specifications for Adjustment Of Teledyne Continental Motors(TCM) Continuous Flow Fuel Injection Systems.... Performed the Teledyne Continental Aircraft Engine Service Information Directive SID973E .Subject: Procedures and Specifications for Adjustment Of Teledyne Continental Motors (TCM) Continuous Flow Fuel Injection Systems.

DATE: 7/1/2013

SIGNED:

Laurence McKenzie, A&P: 3039316

Work Order: 0836-06-2013

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SUB-TOTALS this page

DATE	TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				

ENGINE MODEL:
IO-550N(42)
ENGINE SN: 689730
REG. NO. 313SR
WORK ORDER:
1357-07-2014



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

DATE: 9/4/2014
A/C TSN: 6887
ENG TT: 520.5
FLIGHTTIME: 520.5

Engine Entries

(4) C/W Annual Inspection of Aircraft Engine... Completed 100 hr interval inspection of Engine IAW applicable Cirrus SR-22 AMM 5-20. Completed pre-service ground function check IAW Ch5-30 with no discrepancies noted. Warmed engine to operating temperature. Completed cylinder differential pressure check with results as follows: #1; 73/80. #2; 64/80. #3; 72/80. #4; 72/80. #5; 56/80. #6; 65/80. Master orifice: 44/80. Drained oil, obtained sample and sent for S.O.A.P. test. Removed and cut open filter. Inspected for abnormal debris with none noted. Installed and secured new CH 48108-1 filter and serviced engine with 8 Qts Phillips X/C 20W50 engine oil. Visually inspected engine, exhaust system, engine accessories, hoses, lines, harnesses and all associated systems for loose hardware, leaks chafing, proper routing and evidence of excessive wear or deterioration, degradation or stress with none noted. Removed plugs, cleaned, gapped, tested, rotated and re-installed with new M674 gaskets. Completed satisfactory ground function and leak check IAW applicable Cirrus SR-22 AMM 5-30 with no discrepancies noted. All work done IAW applicable TCM IO-550 Engine Overhaul and Maintenance Manual M-16. I certify that this engine has been inspected IAW a Cirrus 100 hour inspection and is found to be in airworthy condition.

The work performed has been accomplished in accord with all current, applicable and approved FAA data, has been inspected, found to be in airworthy condition and has been approved for return to service

DATE: 9/4/2014 SIGNED: Work Order: 1357-07-2014
Dan Magnanimo, IA: 3174220 Printed by EBis 3 (datcomedia.com)

August 12, 2013 **N313SR** **Hobbs: 677.2**
Flight Hobbs: 510.3

1. Changed oil and filter, filter inspection normal, installed new CH48108-1 filter, serviced sump with 7qts. Phillips XC20W50 oil and 1 bottle of camguard. Sent out oil sample for analysis. Run up and leak check good.
2. Removed and replaced #5cylinder exhaust riser with new P/N 15070-003.

My signature constitutes approval for return to service of this aircraft ONLY FOR THE WORK I HAVE PERFORMED. I have not performed nor been authorized to perform any inspection of this aircraft nor have I reviewed or been authorized to review the maintenance records, including Part 39 compliance



Legacy Air, Inc
11905 Corporate Way
Broomfield, CO 80021
303-404-0277

Curt Lee Power
A&P 2882132

Engine Logbook Entry		Paragon Aircraft Service, Inc. 19 Wright Way, Fairfield, NJ 07004 Phone: (973)575-0364 Fax (973)244-1884					Authorized Cirrus Service Center
Date	N# Number	Make/Model	Serial#	Flight	Hobbs	Total Time	W. O.
11/3/2015	N313SR	IO-550-N42	689730	527.0	699.8	527.0	8484
Changed oil filter cut open old filter, no metal found. Serviced with 7 qts Phillips X/C 20W50. Oil sample taken. Borescoped cylinders no defects noted. Spark plugs cleaned and gapped. Magneto timing checked. #1 74/80, #2 60/80, #3 70/80, #4 64/80, #5 64/80, #6 68/80, MO 44. Engine washed and run-up checked OK. I certify that this engine has been inspected in accordance with an Annual Inspection per CFR 43 Appendix D and determined to be in an airworthy condition. I certify that the work described above was performed in accordance with approved/acceptable data and is approved for return to service with regard to work performed. Authorized Signature: Steven VanderValk A&P 2919106 IA							

