

Excerpts of maintenance records

NTSB Investigation: ERA20LA064 | N323SR

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	9-26-2018	N	N323SR	Hrs.:	FLT HOBBS: 3546.9
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Phase IV			
- Tach: 3546.9, SMOH: 480.7, Prop SMOH: 1373.4. - Changed oil and filled with: Phillips X/C. - Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. - Took oil sample. - Lubed engine controls. Tightened hose clamps and rocker cover screws. - C/W ALT #1 500HR inspection. Inspected drive and brushes. Reinstalled using new gasket and mounting hardware. Torqued hardware. - C/W 500hr magneto replacement. Removed magnetos P/N 10-500556-1, S/N's LH- D06LA069, RH- A119102DR. - Installed overhauled magnetos P/N 10-500556-1, S/N's LH- D16HA072, RH- D16HA003. Installed using new gaskets and locking hardware. Timed magnetos to engine. - Washed engine. - Run-up and leak checked. - The systems affected were operationally tested with no discrepancies noted. - All work was performed i/a/w manufacturer's service instructions and AC43.13.1B.					
					End

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	5/22/2019	N	N323SR	Hrs.:	FLT HOBBS: 3607.8
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Phase II, V, Annual			
- Tach: 3607.8, SMOH: 551.9, Prop SMOH: 1434.3. - Compression test: 1) 68 2) 68 3) 70 4) 68 5) 66 6) 72 over 80 PSI. Metered orifice 46/80 - Changed oil and filled with: Phillips X/C. - Took oil sample. - Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. - Cleaned, gapped and inspected spark plugs, installed with new gaskets. - Cleaned the injector nozzles. Lubed engine controls. Tightened hose clamps and rocker cover screws. - Adjusted magneto timing as needed. - Checked un-metered fuel pressures. - Washed engine. - Run up and leak checked. No disc noted. - The systems affected were operationally tested with no discrepancies noted. - All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. - I certify that this Engine has been inspected i/a/w a Cirrus Phase II, V, Annual/100HR inspection and determined to be in airworthy condition.					
					End

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	7/8/2019	N	N323SR	Hrs.:	FLT HOBBS: 3654.1
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Progressive Phase I			
- Tach: 3654.1, SMOH: 598.2, Prop SMOH: 1480.6. - Changed oil and filled with: Phillips X/C. - Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. - Took oil sample. - Washed engine. - Run up and leak checked, no disc noted. - The systems affected were operationally tested with no discrepancies noted. - All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. - I certify that this Engine has been inspected i/a/w Cirrus Progressive inspection PHASE I and determined to be in airworthy condition.					
					End

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	8/16/2019	N	N323SR	Hrs.:	FLT HOBBS: 3703.5
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Progressive Phase II			
- Tach: 3703.5, SMOH: 637.0, Prop SMOH: 1530.0. - Compression test: 1) 74 2) 76 3) 75 4) 70 5) 70 3) 74 over 80 PSI. Metered orifice 46/80 - Changed oil and filled with: Phillips X/C. - Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. - Took oil sample. - Cleaned, gapped and inspected spark plugs, installed with new gaskets. - Cleaned the injector nozzles. Lubed engine controls. Tightened hose clamps and rocker cover screws. - Adjusted magneto timing as needed. - Checked un-metered fuel pressures. - Washed engine. - Run up and leak checked. No disc noted. - The systems affected were operationally tested with no discrepancies noted. - All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. - I certify that this Engine has been inspected i/a/w Cirrus Progressive inspection PHASE II and determined to be in airworthy condition.					
					End

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	9/22/2019	N	N323SR	Hrs.:	FLT HOBBS: 3753.0
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Phase III			
- Tach: 3753.0, SMOH: 686.5, Prop SMOH: 1579.5. - Changed oil and filled with: Phillips X/C. - Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. - Took oil sample. - Inspected engine i/a/w phase III. - Washed engine. - Run up and leak checked. - The systems affected were operationally tested with no discrepancies noted. - All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. - I certify that this Engine has been inspected i/a/w Cirrus Progressive inspection PHASE III and determined to be in airworthy condition.					
					End

Cornerstone Aviation		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	1-11-2018	N	N323SR	Hrs.:	FLT HOBBS: 3217.0
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine			
1. Changed oil and filled with: Phillips X/C. 2. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 3. Took oil sample. 4. Washed engine, run up and leak checked. 5. The systems affected were operationally tested with no discrepancies noted. 6. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B.					
End					

Cornerstone Aviation		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	5/16/2018	N	N323SR	Hrs.:	FLT HOBBS: 3277.2
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Annual 2018			
1. Tach: 3277.2, SMOH: 211.3, Prop SMOH: 1055.0. 2. Compression test: 1) 72 2) 74 3) 70 4) 68 5) 68 6) 70 over 80 PSI. Metered orifice 46/80 3. Changed oil and filled with: Phillips X/C. 4. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 5. Cleaned, gapped and inspected spark plugs, installed with new gaskets. 6. Cleaned the injector nozzles. Lubed engine controls. Tightened hose clamps and rocker cover screws. 7. Adjusted magneto timing as needed. 8. Checked un-metered fuel pressures. 9. Washed engine. 10. Run up and leak checked. No disc noted. 11. The systems affected were operationally tested with no discrepancies noted. 12. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. 13. I certify that this Engine has been inspected i/a/w an Annual/100HR inspection and determined to be in airworthy condition.					
End					

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	6/18/18	N	N323SR	Hrs.:	FLT HOBBS: 3328.4
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Progressive Phase I			
1. Tach: 3328.4, SMOH: 261.9, Prop SMOH: 1154.9. 2. Changed oil and filled with: Phillips X/C. 3. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 4. Washed engine. 5. Run up and leak checked, no disc noted. 6. The systems affected were operationally tested with no discrepancies noted. 7. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. 8. I certify that this Engine has been inspected i/a/w Cirrus Progressive Inspection PHASE I and determined to be in airworthy condition.					
End					

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	7/10/2018	N	N323SR	Hrs.:	FLT HOBBS: 3380.2
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Progressive Phase II			
1. Tach: 3380.2, SMOH: 313.7, Prop SMOH: 1206.7. 2. Compression test: 1) 69 2) 70 3) 70 4) 69 5) 68 6) 70 over 80 PSI. Metered orifice 44/80 3. Changed oil and filled with: Phillips X/C. 4. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 5. Took oil sample.					
End					

Cornerstone Aviation.		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	8-2-2018	N	N323SR	Hrs.:	FLT HOBBS: 3435.6
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Phase III			
1. Tach: 3435.6, SMOH: 369.4, Prop SMOH: 1262.1. 2. Changed oil and filled with: Phillips X/C. 3. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 4. Took oil sample. 5. Inspected engine I/A/W phase III. 6. Washed engine. 7. Run up and leak checked. 8. The systems affected were operationally tested with no discrepancies noted. 9. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. 10. I certify that this Engine has been inspected i/a/w Cirrus Progressive inspection PHASE III and determined to be in airworthy condition.					
End					

Cornerstone Aviation		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	8-16-2018	N	N323SR	Hrs.:	FLT HOBBS: 3491.9
Tech:	Jeff Hill	A&P:	[REDACTED]	Sign:	[REDACTED]
Description of Work:		Engine Progressive Phase II			
1. Tach: 3491.9, SMOH: 425.4, Prop SMOH: 1318.4. 2. Compression test: 1) 68 2) 71 3) 72 4) 70 5) 69 6) 70 over 80 PSI. Metered orifice 44/80 3. Changed oil and filled with: Phillips X/C. 4. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2. 5. Took oil sample. 6. Cleaned, gapped and inspected spark plugs, installed with new gaskets. 7. Cleaned the injector nozzles. Lubed engine controls. Tightened hose clamps and rocker cover screws. 8. Adjusted magneto timing as needed. 9. Checked un-metered fuel pressures. 10. Washed engine. 11. Run up and leak checked. No disc noted. 12. The systems affected were operationally tested with no discrepancies noted. 13. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. 14. I certify that this Engine has been inspected i/a/w Cirrus Progressive inspection PHASE II and determined to be in airworthy condition.					
End					

Service Information

Consult the Continental Motors web site at continentalmotors.aero for engine related news or announcements. Continental Motors Internet Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness and service bulletins that may be pertinent to your engine model.

If Internet access is not available, contact our Customer Service Department at:
1-888-826-6465 Toll free in the United States or
1-251-438-8299 International

Engine Returns

Return engines for core credit with this log book to:
Continental Motors, Inc.
2039 Broad Street
Mobile, AL 36615 USA

Return engines for overhaul with this log book to:
Continental Motors, Inc.
Factory Service Center
8600 County Road 32
Fairhope, AL 36532 USA

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 07/15/2017

Test Date: 07/15/2017

This engine model 10550N43B, serial number 1034300 was manufactured by Continental Motors, Inc. in accordance with approved design data and the applicable requirements of 14 CFR, Part 21. The approved design data for this engine incorporates all changes required by applicable FAA Airworthiness Directives and Continental Motors Service Bulletins.

CONTINENTAL MOTORS, INC.

Form 6012-03 (Rev Sept 2014)

Date:	8-5-2017	N	N323SR	Hrs:	FLT HOBBS: 3066.2
Tech:	Jeff Hill	A&P:		Sign:	
Description of Work: Engine Annual 2017					
1. Tach: 3066.2, SMOH: 0, Prop SMOH: 892.7.					
2. Changed oil and filled with: Phillips X/C.					
3. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2.					
4. Lubed engine controls. Tightened hose clamps and rocker cover screws.					
5. Removed engine, M/N, IO-550N, S/N, 1002437.					
6. Installed new engine M/N, IO550N43B, S/N, 1034300.					
7. Set idle and idle mixture.					
8. Set unmetered fuel pressures as needed.					
9. Run up and leak checked.					
10. The systems affected were operationally tested with no discrepancies noted.					
11. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B.					
12. <u>I certify that this Engine has been inspected i/a/w an Annual/100HR inspection and determined to be in airworthy condition.</u> End					

Cornerstone Aviation		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	8-23-2017	N	N323SR	Hrs:	FLT HOBBS: 3119.5
Tech:	Jeff Hill	A&P:		Sign:	
Description of Work: Engine					
1. Tach: 3119.5, SMOH: 53.5.					
2. Compression test: 1) 78 2) 78 3) 75 4) 77 5) 74 6) 76 over 80 PSI. Metered orifice 46/80					
3. Changed oil and filled with: Phillips X/C.					
4. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2					
5. Washed engine.					
6. Run up and leak checked.					
7. The systems affected were operationally tested with no discrepancies noted.					
8. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B. End					

Cornerstone Aviation		557 Crawford St. Fitchburg, MA 01420		(978) 343-5727	
Date:	9-15-2017	N	N323SR	Hrs:	FLT HOBBS: 3168.3
Tech:	Jeff Hill	A&P:		Sign:	
Description of Work: Engine Annual 2017					
1. Tach: 3168.3, SMOH: 101.8, Prop SMOH: 994.8.					
2. Compression test: 1) 72 2) 74 3) 75 4) 75 5) 71 6) 76 over 80 PSI. Metered orifice 45/80.					
3. Changed oil and filled with: Phillips X/C.					
4. Removed and inspected oil filter (i/a/w SI1492b) with no contaminants noted. Replaced with: AA48108-2.					
5. Took oil sample.					
6. Cleaned, gapped and inspected spark plugs, installed with new gaskets.					
7. Cleaned the injector nozzles. Lubed engine controls. Tightened hose clamps and rocker cover screws.					
8. Checked magneto timing to engine.					
9. Checked un metered fuel pressures.					
10. Washed engine, run up and leak checked.					
11. The systems affected were operationally tested with no discrepancies noted.					
12. All work was performed i/a/w manufacturer's service instructions and AC43.13.1B.					
13. <u>I certify that this Engine has been inspected i/a/w an Annual/100HR inspection and determined to be in airworthy condition.</u> End					