

LYCOMING
ENGINE LOG

SSP-1872-1

LYCOMING

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING

MAKE

MODEL

SERIAL

FROM

5/20

20

15

TO

20

DETAILING TIME FROM

0.0

TO

HOURS

HOURS

SSP-1872-1

© 1994 by Textron Lycoming "All Rights Reserved"

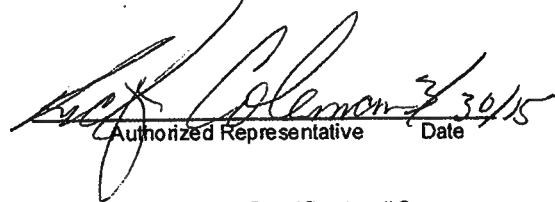
October 1994

LYCOMING

Rebuilt Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number: RENPL-10048
Serial Number RL-8417-61A
Engine Model TIO-540-AK1A
Work Order HP606164
Total Time 0.0


Authorized Representative Date 3/30/15

Production Certificate #3

652 Oliver Street Williamsport, PA 17701 U.S.A
Lycoming Engines is a division of Avco Corporation

Form 2481 Rev 05/13

CRANKCASE MN. KD135
CRANKSHAFT SN. Y537940524

ENGINE LOG

Serial No.

Date		Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
		Hrs	Min			
		00		ENGINE REBUILT		
				ON 3/30/15 BY		
				LYCOMING FACTORY		
				Page Total		
				Brought Forward		
				Total to Date		

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

Serial No.

Date			Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
Hrs		Min					
					ENGINE INSTALLED		
					ON N53098		
					ON 5/20/15		
Page Total					All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
Brought Forward							
Total to Date							

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5/20/15	00	00	Installed Engine on 10" N53098 - Installed		
TACIT	886	8	New MAGS; L (MN6361, SN15010913) R (MN6361, SN15010917), Injectors (PN 6152643, SN AV20797172), FUEL PUMP (PN 62026032, SN H-RHNO29FP), Turbocharger (PN 46C22924, SN H-REL00130), BYPASS Valve (PN-LW-12960, SN H-RJN00084), PRESS Control (PN 48B1A70 SN H-SAN00082), AB Pres Control (PN-LW-14445-10, SN H-RJN00088) Reinstalled Fuel Flow Transducer (MN 680501, SN 119206) Alternator (MN 9910592-3, SN 80020780, 28V, 95A) VACUUM PUMP (MN AA215CC, SN 15635) VACUUM PUMP (MN AA216CW, SN 16238) Flush & Reinstalled oil Cooler (PN 10891A, SN 288). Installed		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			new ALT Belt (PN 390K4E); #1 EGT Pwr (2870), #6 Heater Element (TAS104). Reinstalled TANIS HEATER (MN-TAS1000SSP), Replaced New, New Starter (PN PM240, SN H-PO11752) Repair Fuel pump solenoid (WO 16149), NEW Hone K&T, Test Run-up found (OK) <i>John A. P. 391242217A</i>		
5/22/15	0	0	Annual inspection Completed. Lube		
TACH 886	8		Engine & Gpu Controls. clean Fuel Strainer New oil Filter (CH-48110-1) add 10A oil 50W oil. Replace Air filter (P10-6110) Check Timing (OK) Compression as Follows: <i>Next PAGE</i>		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No.

ENGINE LOG			Serial No.
Date	Time		
Hrs	Min	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature License Number
5/22/80	00	#1 78/80 #2 78/80 #3 77/80 #4 18/80 #5 78/80 #6 76/80 TAC 886 g CW. A 84-26-02 (Replaced Air Filter) (Dad 1386.8) AD 2011-26-04 (INSPECTION) (Dad 986.8)	
		"I certify That This Engine has been inspected in accordance with an Annual inspection and was determined to be in an Acceptable Condition"	
		The 4th (2nd) 10891395-9721A	
		Page Total	
		Brought Forward	
		Total to Date	

All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

Serial No.

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
12/9/15	59	0	Changed oil and Filter (AA 48110-2) add 9 QTS of Pennsylv 15W50 oil.		
TACH	945	8			
			Thom (C) 11/11/15 24721-1A		
TACH	946	2			
1/15/16	59	4	Annual inspection Completed. Lube Engine + Gas controls. Clean + Gas Plug and Full Service, changed oil Filter (AA 48110-1) add Pennsylv 15W50 oil. Check Airfilter, Check Timing (OK) Compression as follows: #1 77/80, #2 74/80, #3 74/80, #4 76/80, #5 76/80, #6 79/80. C/W		
			AD 2015-19-07 (Inspection) (Due 1056.2) I certify that this Engine has been inspected in accordance with an Annual		
			Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown. "NEXT PAGE"	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
1/15/16	5	4	inspection and was determined to be in airworthy condition.	<i>[Signature]</i>	
TAC	9	46			

NAPLES AIR CENTER, INC.

CRS X04R655M

230 AVIATION DRIVE SOUTH

NAPLES, FLORIDA 34104

AIRCRAFT: N53098 DATE: 6/24/16 WO: 13319 TACH: 969.2 HOBBS: 1.088.6

ENGINE LOG

DRAINED ENGINE OIL, REMOVED AND INSPECTED OIL FILTER, INSTALLED NEW CH48110-1 OIL FILTER AND SERVICED WITH 9 QTS. OF 15W50 AEROSHELL OIL. ENGINE RUN UP C/W AND LEAKED CHECKED GOOD.

[Signature] FOR NAPLES AIR CENTER CRS X04R655M
JOHN L. IRVINE

Total to Date

Certificate Number MUST be Shown.

Serial No.

Fayetteville AR 72701

Total: 119.9

I certify that this engine was inspected in accordance with a 100hr inspection and is approved for return to service on this date, Steven Duncan 431634174 IA Steven Duncan.

[illegible]

Serial No.



4912 S. Collins St., Arlington, TX 76018

FAA CRS VNFR171L

N53098

TACH 1023.5

TOTAL 136.7

DATE 3/19/2018

W.O. SV5502

ENGINE S/N: RL-8417-61A

ENGINE S/N: RL-8417-61A
PERFORMED A 100 HOUR INSPECTION IN ACCORDANCE WITH FAR 43 WITH REFERENCE TO CESSNA MAINTENANCE MANUAL 182SMM20. OIL AND FILTER CHANGED. COMPLIED WITH SB 480E OIL, OIL FILTER AND SUCTION SCREEN INSPECTION. SERVICED WITH PHILLIPS 20W50 AND CH48110-1. SPARK PLUGS CLEANED AND TESTED. REMOVED MAGNETOS, REPLACED GASKETS P/N'S: 62224, LW-12681, REINSTALLED MAGNETOS AND TIGHT TO ENGINE. COMPRESSION TEST: #1 76 #2 74 #3 75 #4 73 #5 76 #6 73/80. COMPLIED WITH AD 2015-19-07 FUEL INJECTION LINE INSPECTION IN ACCORDANCE WITH LYCOMING SB 342G; NEXT INSPECTION DUE BY TACH 1133.5. ENGINE OVERHAUL OR LOOSENING OF CLAMPS. AD 2017-16-11 CONNECTING ROD INSPECTION PER LYCOMING SB 632B DOES NOT APPLY BY ENGINE S/N. AD'S CHECKED THROUGH 2018-06.
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER THIS WORK ORDER.

JOHN HOFFMAN, INSPECTOR

[illegible]

**All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.**

D ϵ 

VAN BORTEL AIRCRAFT INC™

4912 S. Collins St., Arlington, TX 76018

FAA CRS VNFR171L

N53098

TACH 1096.0

H.M. 1228.3

DATE 11/6/2018

W.O. SV5712

ENGINE S/N: RL-8417-61A

OIL AND FILTER CHANGED. COMPLIED WITH SB 480F OIL, OIL FILTER AND SUCTION SCREEN INSPECTION. SERVICED WITH PHILLIPS 20W50 AND CH48110-1.

THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK ABOVE. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER THIS WORK ORDER.

PAUL PARK, CHIEF INSPECTOR

[illegible]



VAN BORTEL AIRCRAFT INC™

4912 S. Collins St., Arlington, TX 76018

FAA CRS VNFR171L

N53098 TACH 1108.9 TOTAL 222.1 DATE 12/19/2018 W.O. SV5749

ENGINE S/N: RL-8417-61A

PERFORMED A 100 HOUR INSPECTION IN ACCORDANCE WITH FAR 43 WITH REFERENCE TO CESSNA MAINTENANCE MANUAL 182SMM20. OIL AND FILTER CHANGED. COMPLIED WITH SB 480F OIL, OIL FILTER AND SUCTION SCREEN INSPECTION. SERVICED WITH PHILLIPS 20W50 AND CH48110-1. REPLACED ALL SPARK PLUGS WITH NEW P/N: RHB37E. MAGNETO TO ENGINE TIMING CHECKED. COMPRESSION TEST: #1 77 #2 74 #3 75 #4 73 #5 77 #6 74/80. COMPLIED WITH AD 2015-19-07 FUEL INJECTION LINE INSPECTION IN ACCORDANCE WITH LYCOMING SB 342G, NEXT INSPECTION DUE BY TACH 1218.9, ENGINE OVERHAUL OR LOOSENING OF CLAMPS. AD'S CHECKED THROUGH 2018-26.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER THIS WORK ORDER.

Paul H. B.

PAUL PARK, CHIEF INSPECTOR

[illegible]

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

N53098

Tach: 1158.5

Lycoming TIO-540-AKIA

S/N RL-8417-61A

January 27, 2020

TTSMOH : 271.7

Performed a 100 hr inspection , removed engine cowls , drained oil , removed filter , cut, inspected , Per SB480F,(inspect screen / filter).Serviced with Phillips XC20W50, replaced AA48110-2 filter. Cleaned

Gapped all plugs , reinstalled .Compressions as follows #1 78 #2 76 #3 76 #4 75 #5 74 #6 76/80.

Tightened valve cover gasket screws. AD2015-19-07 insp fuel lines(SB342G) next due 1218.9

All AD's complied with at this time .Check AD listing.

I certify all work done in accordance with Cessna Maintenance Manuel and Federal Aviation Regulations Part 43 and is determined to be in Airworthy Condition,

END OF ENTRY-



Timothy S. Hart AP 3403977

January 27, 2020

N53098

Tach: 1158.5

Lycoming TIO-540-AKIA

S/N RL-8417-61A

January 27, 2020

TTSMOH : 271.7

I certify this aircraft engine has been inspected IAW an annual inspection., and has been determined to be in airworthy condition.



Mark Robles AP26531311A


ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

N53098 Lycoming TIO-540-AK1A July 07, 2020
 Tach :1201.2 s/n RL-8417-61A TTSMOH: 314.4


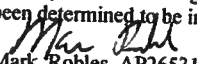
Removed aircraft engine cowlings, drained oil, removed filter, inspect, no particles found
 Per SB480F, Install new filter CH48110-1 serviced with Phillips XC20W50. Recowl
 Run, check for leaks, none found.
 All work accomplished in accordance with Lycoming Maintenance Manual
 and AC 4313 acceptable practices.

 -END OF ENTRY-
 Date: July 07, 2020
 Timothy S. Hart AP3403977

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
			<p>N53098 Lycoming TIO-540-AK1A February 2, 2021</p> <p>Tach: 1235.0 S/N RL-8417-61A TTSMOH : 348.7</p> <p>Performed a 100 hr inspection , removed engine cowls , drained oil , removed filter , cut, inspected , Per SB480F</p> <p>.(inspect screen / filter). Serviced with Phillips XC20W50, replaced AA48110-2 filter. Cleaned , gapped all</p> <p>Spark plugs , reinstalled .Compressions as follows #1 74 #2 76 #3 76 #4 75 #5 75 #6 77/80.</p> <p>AD2015-19-07 insp fuel lines (SB342G) next due 1395.9</p> <p>All AD's complied with at this time , thru 2021-01. AD listing attached in aircraft records.</p> <p>I certify all work done in accordance with Cessna Maintenance Manuel and Federal</p> <p>Aviation Regulations Part 43 and is determined to be in Airworthy Condition,</p> <p>- END OF ENTRY-</p> <p> Timothy S. Hart AP 3403977 February 2, 2021</p>		
			<p>N53098 Lycoming TIO-540-AK1A February 2, 2021</p> <p>Tach: 1235.0 S/N RL-8417-61A TTSMOH : 348.7</p> <p>I certify this aircraft engine has been inspected IAW an annual inspection., and has</p> <p>been determined to be in airworthy condition.</p> <p> Mark Robles AP26531311A</p>		
			Total to Date		

Certificate Number MUST be Shown.



CRYSTAL AIR INC.

104 NOWLIN LANE, HANGER 19

CHATTANOOGA TN 37421

Date 11/2/2021

N53098

Tach 1265.0

ENGINE

At this time drained oil and changed the filter. Installed new 48110-2 filter and serviced with 8.5 qts. of Phillips 20W50 XC. Oil sample was taken. CW AD 2015-19-07 fuel lines by inspection, no looseness found. Removed and replaced upper vacuum pump PN AA3215CC, SN OT9E16 and lower vacuum pump PN AA3216CW, SN OR4C07. I certify work performed to be in airworthy condition at this time.

JOHN MOORE AP2748654IA

sense
umber

CRYSTAL AIR INC.
104 NOWLIN LN, HANGER 19
CHATTANOOGA, TN 37421

N53098 S/N RL-8417-61A TACH 1280.7 TTSMOH 394.4 2/25/22 ENGINE

At this time performed a ANNUAL INSPECTION IAW 14 CFR 43, Appendix D (scope and detail) and utilizing 182SMM REV 21 as a guide. Compressions at #1(75) #2(73), #3(70), #4(73), #5(75) AND #6(75). Changed oil (Phillips 66 20W50 X/C 8 qts) and oil filter (Tempest 48110-2). Oil sample was taken. Cleaned and gapped plugs. Checked mag timing to engine. Tighten oil drain lines. Washed Engine. Ran and ops check good. AD 2015-19-07 CW.

I CERTIFY THIS ENGINE TO BE IN AN AIRWORTHY CONDITION IAW A
ANNUAL INSPECTION AT THIS TIME.

BRIAN FLIPPO A&P 3784678 IA

e Endorsement of a
his Rating and

Total to Date

Certificate Number MUST be Shown.



CRYSTAL AIR INC.
104 NOWLIN LN, HANGAR 19
CHATTANOOGA, TN 37421

N53098 S/N RL-8417-61A TACH 1324.6 TTSMOH 438.3 3/6/23 ENGINE

At this time performed a **ANNUAL INSPECTION** IAW 14 CFR 43, Appendix D (scope and detail) and utilizing 182SMM REV 21 as a guide. Compressions at #1(74) #2(73), #3(74), #4(76), #5(78) AND #6(73). Changed oil (Phillips 66 20W50 X/C 8 qts) and oil filter (Tempest 48110-2). Oil sample was taken. Cleaned and gapped plugs. Checked mag timing to engine. Tighten oil drain lines. Washed Engine. Ran and ops check good. AD 2015-19-07 CW.

I CERTIFY THIS ENGINE TO BE IN AN AIRWORTHY CONDITION IAW A
ANNUAL INSPECTION AT THIS TIME.

BRIAN FLIPPO A&P 3784678 IA 



CRYSTAL AIR INC.
104 NOWLIN LN, HANGAR 19
CHATTANOOGA, TN 37421

N53098 S/N RL-8417-61A TACH 1307.3 TTSMOH 421 11/14/22 ENGINE

At this time changed low oil pressure switch (83278). Ops check good

I CERTIFY ALL WORK DONE TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

BRIAN FLIPPO A&P 3784678 IA 

Serial No. _____

WORKS

Signature

License
Number

Repair Data Must Bear the Endorsement of a
Qualified Mechanic, and his Rating and
Certificate Number MUST be Shown.

Serial No.[illegible]

Serial No.

[illegible]