

ENGINE LOG
EF5-1

ENGINE DESCRIPTION

MANUFACTURER Lycoming MODEL T10-541-E1B4

SERIAL NUMBER L-025-590 DATE OF MANUFACTURE _____

RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE _____

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET & NO. _____

CITY, STATE, ZIP _____

INSPECTION & MAINTENANCE RECORD

TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
	8EA STD-1815 NUT, 2EA STD-677 WASHER, 1EA 75749 LOCKPLATE, 1EA 73314 GASKET, 1EA 76240 ADAPTER, 6EA NAS1149C0663R WASHER, 10EA SL72075 SEAL, 3EA STD-143 WASHER, 1EA STD-1941 PIN, 4EA STD-969 SCREW, 3EA LW-12093-5 COUPLING, 24EA STD-2044 NUT, 1EA 78111 LOCKPLATE, 1EA 350-6-0174 HOSE, 1EA 624000-4-0270 HOSE, 1EA 624000-5-0156 HOSE, 1EA 624040-6-0262 HOSE, 1EA 624040-8D-0214 HOSE, 1EA 624037-12D-0180 HOSE, 1EA 624023-4-0214 HOSE, 1EA 624023-4-0222 HOSE, 1EA 624023-4-0446 HOSE, 1EA AE7010001G0084 HOSE, 1EA AE7010001G0166 HOSE, 1EA AE7010001G0212 HOSE, 7EA MS21919WDG10 CLAMP, 2EA MS21919WDG12 CLAMP, 3EA MS21919WDG14 CLAMP, 1EA MS21919WDG16 CLAMP, 2EA MS21919WDG24 CLAMP, 4EA SL31C-12 STUD, 3EA AN7-34A BOLT, 6EA LW-16266-10-75 CLAMP, 7EA MS20500-624 NUT, 9EA MS21044N3 NUT, 25EA AN526-1032-R8 SCREW, 48EA STD-1925 SCREW, 2EA H880015 GROMMET, 12EA STD-1410 NUT, 1EA LW-31-1.16 BOLT, 1EA 1691-C GASKET, 1EA 31C-13-P03 STUD, 4EA STD-1901 RIVET, 12EA STD-1411 NUT, 6EA MS21045L4 NUT, 4EA MS24665-132 PIN, 3EA LW-16266-10-25 CLAMP, 1EA 74070 ELBOW, 2EA LW-25HO.75 BOLT, 1EA 76970 IMPELLER, 1EA 76865 BODY, 2EA 78146 CLAMP, 3EA STD-68 PIN, 4EA LW-25-1.13 BOLT, 5EA 74906 GASKET, 8EA MS21044N5 NUT, 1EA AN6-34A BOLT, 1EA AN5-23A BOLT, 1EA AN6-16 BOLT, 6EA 78112 LOCKPLATE, 1EA LW-16266-10-38 CLAMP, 6EA 05K21116 CYLINDER, 12EA AEL72626 SHAFT, 12EA LW-11665 THRUST BUTTON, 12EA SL74789 BUSHING, 1EA 6LN-1208 MAGNETO S/N A282595, 1EA S6RN-1209 S/N 1003000, 2EA 10-349263 PACKING, 8EA 10-92879-43 WASHER, 8EA 10-78655 WASHER, 2EA 10-92815-37 RING, 2EA

PAGE 2 OF 3
 LY-CON REBUILDING CO. 8231 Doe Avenue Visalia, CA 93291 (559) 651-1070

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		10-50752 WASHER, 2EA 10-391586 BLOCK, 2EA 10-163374 FELT, 2EA 10-160844 BRUSH, 4EA 10-349219 WEDGE, 2EA 10-391213 SCREW, 2EA 10-349248 SLINGER, 2EA 10-92815-62 RING, 6EA 10-53397 WASHER, 2EA 10-382584 CONTACT, 1EA 10-382585 CONTACT, 1EA 10-400623 BRG, 1EA 10-400615 CAPACITOR, 1EA 10-400561 BRG, 1EA 10-400567 BALL BRG, 2EA 10-400009 NAME PLATE, 1EA 10-400604 CAPACITOR, 1EA 77711 DAMPER, 1EA 77712 DAMPER, 1EA 77068 DAMPER, 1EA 77069 DAMPER, 1EA 149-24HT STARTER S/N F4M-140402, 1EA LW-13309 TURBOCHARGER S/N OFR0103, 1EA 2524275-16 FUEL SERVO S/N 2683915, 1EA EM8001 TACH GENERATOR S/N AT-13860, 1EA 481008-8008 CONTROLLER S/N 02181, 1EA 50-921560-35 FUEL PUMP S/N 3623, 1EA 77551 WASTEGATE S/N IGR0107, 1EA 8907001 ACCUMULATOR S/N 867374, 1EA LW-10025 OIL COOLER S/N 88B-882. PORT POLISH AND FLOW BALANCE CYLINDERS. COMPLIED WITH PERTINENT A.D.'S & S.B.'S. TEST RUN 1 1/2 HRS. ALL INFORMATION ON FILE AT LY-CON REBUILDING CO. REFERENCE W.O. 22691 7/08/05.

This Aircraft, Engine, or Component, Identified Above Has Been Repaired and/or Inspected in Accordance With Current Federal Aviation Administration Regulations and is Approved For Return To Service. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS STATION UNDER WORK

ORDER NO. 22691 DATE 7-8-05
 SIGNED [Signature]
 LY-CON REBUILDING CO. REPAIR STATION
 VISALIA CALIF. CT3R435L

PAGE 3 OF 3
 LY-CON REBUILDING CO. 8231 Doe Avenue Visalia, CA 93291 (559) 651-1070

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Aero Structures, Inc
65 Frank Luke Drive
CRS QRQR810L
Addison, TX 75001
Ph 972-267-2376
Fax 972-267-2377

620A **Beech A56TC** **S/N- TG-88** **ACTT- 2460.2**
H- Lycoming **TIO-541** **S/N- L-625-59** **Hobbs 7.4** **SMOH- 7.4**
 Replaced engine on airframe after O/H by Ly-Con W/O: 22691. All engine fluid carrying hoses have been replaced with new. Serviced engine with 13 quarts Aero Shell 100 plus. Replaced prop governor studs with new longer studs P/N: 31C-16, 4ea using Loctite 271. Replaced Woodward prop governor after O/H by Byam Propeller W/O: 26662, P/N: 210456N, S/N: 875955. Installed missing tach generator drive gear per TIO541 MM. On RH engine corrected wiring on retard points. Installed new retard point terminal insulators common to magneto case. Installed engine magneto noise filter P/N: A293. Installed new TIT probe P/N: Alcor 86159. Installed oil temp probe using new gasket P/N: 40S34. Installed STC # SA00120DE, Oilmatic Engine Preoilers M/N: 4100A, P/N: 720403-12, see form dated 3-7-2006 for more details on this installation. Ran engine, set idle mixture and idle per A56-TC SHOP MANUAL. Complied with 100 hour/annual inspection using FAR 43 appendix "D" checklist. All work done in accordance with the appropriate Beechcraft maintenance manuals, 100hr/annual inspection guides, and the current rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this repair station under Work Order Number: 050323.

Michael A. Sarum Date: 06-10-2006
 Aero Structures, Inc, CRS QRQR810L

Aero Structures, Inc
65 Frank Luke Drive
CRS QRQR810L
Addison, TX 75001
Ph 972-267-2376
Fax 972-267-2377

620A **Beech A56TC** **S/N- TG-88** **ACTT- 2461.5**
H- Lycoming **TIO-541** **S/N- L-625-59** **Hobbs 8.7** **SMOH- 8.7**
 Serviced engine with 13 quarts Aero Shell 100 plus and CH48103-1 oil filter. Pertinent details are on file at this repair station under Work Order Number: 060722.

Michael A. Sarum Date: 07-26-2006
 Aero Structures, Inc, CRS QRQR810L

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Jan. 20, 2007
 N4620A s/n TG-88
 ACTT 2470.1, Hobbs 17.3

Right engine s/n L-625-59 changed engine oil with 13 Qts Aeroshell W100 Plus and oil filter with Champion CH48103-1, leak checked good.

Kenneth Williams
 Kenneth Williams
 461942049AP

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N4620A BEECH A56TC S/N: TG-88
 12/3/2007 HOUR METER: 24.6 A/C TOTAL: ~~2477.4~~
 Right Engine: Lycoming TIO-541-E1B4 S/N L-625-59
 Engine Total Time: 24.774 TSMO: 24.6

Completed 100 Hr. inspection I/A/W the scope & detail of appendix D of Part 43 & Beech 100 Hr. Checklist for the Beech A56TC. Warmed engine, drained oil, cut open oil filter & inspected for contaminants (No metal or contaminants noted); Installed new CH48103-1 oil filter; Removed, inspected, cleaned and reinstalled main lower sump screen assy; Reserviced engine with 13 qts. Aeroshell W100 plus oil; Ran differential compression check (Hot); Compression checked as follows: #1 70/80 #2 70/80 #3 75/80 #4 75/80 #5 74/80 #6 76/80; Cleaned, regapped & tested all spark plugs; checked magneto to engine timing; Inspected exhaust system for condition & security; Retorqued all exhaust stack flanges @ cylinders; Retorqued all rocker cover screws; Inspected & cleaned air filter element; Inspected all engine controls for security; Readjusted alternator belt tension; Resecured any loose wiring & hoses as necessary; Washed down engine & cowling.

Alfred J. Louque III
 Alfred J. Louque III
 A & P 1943618

12/3/2007 Total Time: ~~2477.4~~ / Hobbs: 24.6

I certify that this ~~engine~~ engine has been inspected in accordance with a 100 hr/ ~~inspection~~ inspection & is determined to be in an airworthy condition. Alfred J. Louque A&P1943618IA

ELT BATT. DUE DATE: MARCH 2010
Alfred J. Louque III

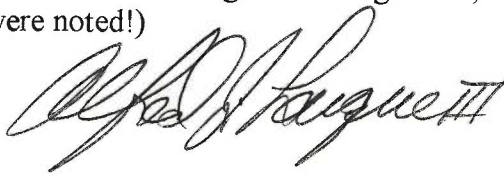
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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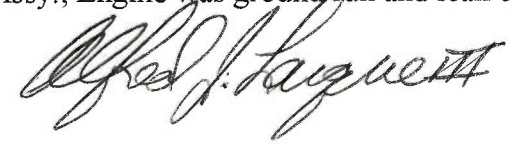
N4620A Beech A56TC S/N TG-88
 1/8/2008 Hour Meter: 29.2 Total Time: 2482.0
 R/H Engine (Lycoming) TIO-540- E1B4 S/N L-625-59
 R/H Engine Log Entry Engine T.T. 2482.0 TSMO: 29.2
 Retorqued all Rocker Cover screws, Retorqued all Rocker Shaft cover screws and nuts;
 Reseated pushrod tubes on #4, #5 and #6 cylinders

Alfred J. Louque III
 Alfred J. Louque III
 A&P 1943618

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	
3/10/2008		N4620A Beech A56TC R/H Engine (Lycoming) R/H Engine Log Entry	Hour Meter: 31.1 TIO-541-E1B4 Engine T.T. 2483.9
		S/N TG-88 A/C Total Time: 2483.9 S/N: L-625-59 TSMO: 31.1	
<p>Replaced all 6 Rocker Cover Gaskets with new P/N 76036 Gaskets; Replaced all Rocker Shaft Cover Gaskets with new P/n 66732 gaskets; Replaced all Pushrod Shroud Tube Seals P/n 70310 on #1, #2 and #3 cylinders; Complied with Precision Emergency AD # 2008-06-51 Para. 1, and Para. (f) & (g) on Inspection of Brass Plug for looseness (No Looseness noted!) It was also found that this servo was overhauled prior to August 22, 2006 which was when the defective gaskets became available for installation. This unit should not have an affected plug gasket installed on it! Replaced Oil temperature Probe with New Probe P/N MS28034-1. Engine was degreased, Ground run and leak checked. (No discrepancies were noted!)</p>			
			Alfred J. Louque III A&P 1943618

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	
7/10/2008		N4620A Beech A56TC R/H Engine (Lycoming) R/H Engine Log Entry	Hour Meter: 42.4 TIO-541-E1B4 Engine T.T. 2495.2
		S/N TG-88 A/C Total Time: 2495.2 S/N: L-625-59 TSMO: 42.4	
<p>Drained oil, Removed, cut open and inspected oil filter for contaminants(No metal or contaminants noted!) Installed new oil filter assy., Reserviced engine with 13 Qts. Aeroshell 100 W Plus oil; Inspected exhaust system for security and leaks (No discrepancies were noted!) Lubed Turbo waste gate with Mouse Milk; Removed Prop Spinner assy. And replaced De-Ice Boot strap Ty-Wraps at blade Shanks; Reinstalled and Resecured Spinner Assy.; Engine was ground run and leak checked okay.</p>			
			Alfred J. Louque III A&P 1943618

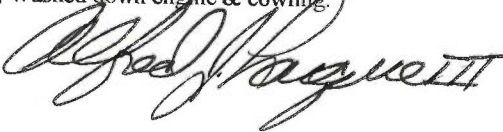
INSPECTION & MAINTENANCE RECORD

N4620A
 2/2/2009
 Right Engine: Lycoming TIO-541-E1B4
 Engine Total Time: 2510.0

BEECH A56TC
 HOUR METER: 57.2

S/N: TG-88
 A/C TOTAL: 2510.0
 S/N L-625-59
 TSMO: 57.2

Completed 100 Hr. inspection I/A/W the scope & detail of appendix D of Part 43 & Beech 100 Hr. Checklist for the Beech A56TC. Warmed engine, drained oil, cut open oil filter & inspected for contaminants (No metal or contaminants noted); Installed new CH48103-1 oil filter; Removed, inspected, cleaned and reinstalled main lower sump screen assy; Reserviced engine with 12 qts. Aeroshell W100 plus oil; Ran differential compression check (Hot); Compression checked as follows: #1 79/80 #2 79/80 #3 79/80 #4 79/80 #5 79/80 #6 79/80; Cleaned, regapped & tested all spark plugs; checked magneto to engine timing; Inspected exhaust system for condition & security; Retorqued all exhaust stack flanges @ cylinders; Lubed waste gate & exhaust stack slip joints with mouse milk; Inspected and cleaned air filter element; Inspected all engine controls for security; Readjusted alternator belt tension; Resecured any loose wiring & hoses as necessary; Washed down engine & cowling.


 Alfred J. Louque III
 A & P 1943618

FEB 02 2009 Total Time: 2510.0 / Hobbs: 57.2

I certify that this ~~engine~~ /engine has been inspected in accordance with a 100 hr/ ~~inspection~~ inspection & is determined to be in an airworthy condition. Alfred J. Louque A&P1943618IA

ELT BATT. DUE DATE: MAR 2010 

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N4620A
 9/12/2009
 R/H Engine (Lycoming)
 R/H Engine Log Entry

Beech A56TC
 Hour Meter: 86.4
 TIO-541-E1B4
 Engine T.T. 2539.2

S/N TG-88
 A/C Total Time: 2539.2
 S/N: L-625-59
 TSMO: 86.4

Drained oil, Removed, cut open and inspected oil filter for contaminants(No metal or contaminants noted!) Installed new oil filter assy. Champion CH-48103-1, Reserviced engine with 13 Qts. Aeroshell 100 W Plus oil; Inspected exhaust system for security and leaks (No discrepancies were noted!) Lubed Turbo waste gate with Mouse Milk; Removed Prop Spinner Cap assy. and Serviced dome charge with Nitrogen to 41 PSI .Serviced Prop Unfeathering Accumulator with Nitrogen to 105 PSI.; Engine was ground run and leak checked okay.


 Alfred J. Louque III
 A&P 1943618

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N4620A
4/17/2010
R/H Engine (Lycoming)
R/H Engine Log Entry

Beech A56TC
Hour Meter: 92.0
TIO-541-E1B4
Engine T.T. 2544.8

S/N TG-88
A/C Total Time: 2544.8
S/N: L-625-59
TSMO: 92.0

Completed 100 Hr. inspection I/A/W the Scope and Detail of Appendix D of Part 43 & Beech 100 Hr. Checklist for the A56TC. Warmed Engine, Drained oil, Removed, cut open and inspected oil filter for contaminants(No metal or contaminants noted!) Installed new oil filter assy. Champion CH-48103-1, Reserviced engine with 13 Qts. Aeroshell 100 W Plus Oil; Ran Differential Compression check (Hot). Compression checked as follows: #1 78/80 #2 78/80 #3 79/80 #4 79/80 #5 79/80 #6 78/80. Inspected exhaust system for security and leaks (No discrepancies were noted!) Lubed Turbo waste gate and all Exhaust slip joints with Mouse Milk; Removed Prop Spinner Cap assy. and Serviced dome charge with Nitrogen to 41 PSI .Serviced Prop Unfeathering Accumulator with Nitrogen to 105 PSI.; Inspected and lubed all Engine Controls; Washed down Engine and Cowling; Engine was ground run and leak checked okay.

Alfred J. Louque III
Alfred J. Louque III
A&P 1943618

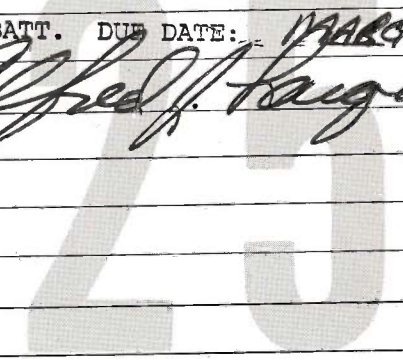
INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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APR 17 2010 Total Time: 2544.8 / Hobbs: 92.0

I certify that this ~~engine~~/engine has been inspected in accordance with a 100 hr/ ~~inspection~~ inspection & is determined to be in an airworthy condition. Alfred J. Louque A&P1943618IA

ELT BATT. DUE DATE: MARCH 2012
Alfred J. Louque III




INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N4620A	Beech A56TC	S/N TG-88
10/12/2010	Hour Meter: 113.6	A/C Total Time: 2566.4
R/H Engine (Lycoming)	TIO-541-E1B4	S/N: L-625-59
R/H Engine Log Entry	Engine T.T. 2566.4	TSMO: 113.6

Drained Oil, Replaced Oil Drain Plug Gasket Lycoming P/N O6E19769-1.00 with New Unit; Removed, Cut Open and Inspected Oil Filter for Contaminants (No Metal or Contaminants Noted!) Installed New Oil filter Assy. (Champion CH-48103-1), Reserviced Engine with 13 Qts. Aeroshell W 100 Plus Oil; Inspected Exhaust System for Security and Leaks (No Discrepancies were Noted!) Lubed Turbo Waste Gate, Linkages and all Exhaust Slip Joints with Mouse Milk; Inspected all Baffling for Security and Condition; Inspected and Lubed all Engine Controls; Engine was ground Run and Leak Checked Okay.

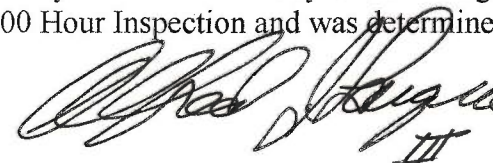

 Alfred J. Louque III
 A & P 1943618

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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N4620A	Beech A56TC	S/N TG-88
6/2/2011	Hour Meter: 119.9	A/C Total Time: 2572.7
R/H Engine (Lycoming)	TIO-541-E1B4	S/N: L-625-59
R/H Engine Log Entry	Engine T.T. 2572.7	TSMO: 119.9

Completed 100 Hr. inspection I/A/W the Scope and Detail of Appendix D of Part 43 & Beech 100 Hr. Checklist for the A56TC; Cleaned, Regapped and tested all Spark plugs; Ran Differential Compression check . Compression checked as follows: #1 76/80 #2 76/80 #3 78/80 #4 78/80 #5 78/80 #6 78/80. Removed L/H Magneto, Bendix Model# S6LN-1208 P/N 10-349290-2 S/N: A282595 for Repairs. Magneto was repaired by Select Aircraft Service of Lancaster, Tx. under Work Order #6553-00 Dated 6/1/2011. Magneto was reinstalled and timed to engine; Inspected exhaust system for security and leaks (No discrepancies were noted!) Lubed Turbo waste gate and all Exhaust slip joints with Mouse Milk.; Inspected and lubed all Engine Controls; Engine was ground run and leak checked okay.----- I Certify that this Engine has been Inspected In Accordance with a 100 Hour Inspection and was determined to be in an Airworthy Condition.


 Alfred J. Louque III
 A & P 1943618 IA