

D 6160

NUMBER E F 5

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AIR ASSOCIATES, INC.

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# AIR ASSOCIATES INCORPORATED

TETERBORO, NEW JERSEY

ATLANTA, GEORGIA

Atlanta Municipal Airport

Phone Calhoun 1107

DALLAS, TEXAS

3214 Love Field Drive

Phone Dixon 4-2611

TETERBORO, NEW JERSEY

Teterboro Air Terminal

Phone HAsbrouck Heights 8-1500

CHICAGO, ILLINOIS

5315 West 63rd Street

Phone POrtsmouth 7-2800

GLENDALE, CALIFORNIA

1231 Air Way

Phone Citrus 4-4151

MIAMI, FLORIDA

P. O. Box 241, Int'l Airport

Phone Miami 64-4567



ENGINE LOG



## ENGINE DESCRIPTION

Mfgr. <u>Continental</u>	Place <u>Muskegon, Mich.</u>	Date
Type	Model <u>IO-470-C</u>	Serial No. <u>71799-9-C</u>
Rated H. P.	Maximum H. P.	Weight (Dry)
Rated R. P. M.	Maximum R. P. M.	Oil Pressure
Bore	Stroke	Displacement <span style="float: right;">Cu. In.</span>
Compression Ratio	Supercharger Ratio	Gear Ratio
Propeller <u>Beech</u>	Hub Design <u>278-100-7</u>	Hub Serial No. <u>7-3235</u>
Blade Design <u>278-214-82</u>	Blade Serial No. <u>5-F841</u>	Blade Serial No. <u>5-F870</u>
Maximum Hub H. P.	Maximum Blade H. P.	
Pitch	Diameter	Length
Owners Name		
Address	City	State







## ENGINE LOG

E	LICENSE NUMBER	DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
			GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
											(SAE 40-DX SHELL) CHANGED OIL - CLEANED OIL STRAINER INST. NEW SPARK PLUGS CHECKED STARTER MAGS. GEN. (RELOCATE STARTER SOLENOID SWITCH) (REF. BEECH SERVICE LETTER - ISSUED DEC 1959) THE STARTER WAS REMOVED AND FOUND TO HAVE NO BASKET - NO DAMAGE WAS NOTICED. NEW GASKET WAS INSTALLED.		
											PIEDMONT AVIATION, INC. MUNICIPAL AIRPORT NORFOLK, VIRGINIA		
											I certify that this ENGINE..... has been inspected in accordance with <b>PERIODIC</b> ..... inspection and has been found airworthy.		
											Signature <i>Joseph R. Cline</i> #1392840 A+P Time in Service... 204 ... Hours... 93... Date of Inspection... FEB. 17, 1960...		
											BROUGHT FORWARD TOTALS		



## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER	DATE
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.				
MARCH 29, 1960							253	04	CHANGED OIL (SAE 50-D SHELL) CLEANED SPARK PLUGS & FUEL INJ. GREASED LANDING GEAR - NOSE	Joseph J. Cause	ATP 1392840	
APRIL 29, 1960							308	00	PIEDMONT AVIATION, INC. MUNICIPAL AIRPORT NORFOLK, VIRGINIA			
<p>I certify that this <u>ENGINE</u> has been inspected in accordance with <u>100 HOUR</u> inspection and has been found airworthy.</p> <p>Signature: <u>Joseph J. Cause</u> Cert. # <u>ATP 1392840</u></p> <p>Time in Service: <u>308</u> Hours <u>00</u></p> <p>Date of Inspection: <u>APRIL 29 1960</u></p>												
BROUGHT FORWARD												
TOTALS												
CHANGED OIL (SAE 50D SHELL) CLEANED SPARK PLUGS + TESTED PAINTED FACE OF PRDP.												

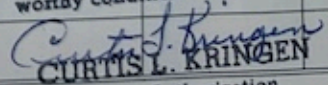






## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
63											
2-12-63							66	00	Engine washed down & given visual inspection, oil & fuel saecus pulled & cleaned, Plugs Removed, cleaned & capped. Ignition system checked, one new spark plug installed, Points & Timing checked. New brushes installed in generator. Prop Avh checked, compression check performed, MAGNETOS lubricated  ACCORDING TO AD 60-26-2, - Engine has been inspected in accordance with Periodic - <del>100 hour</del> inspection and is determined to be in an air-worthy condition.		
BROUGHT FORWARD											
TOTALS											

  
**CURTIS L. KRINGEN**  
 Inspection Authorization  
 1288189







# SCHNECK ENGINE SERVICE and SUPPLY

The aircraft and/or component identified below was repaired and inspected in accordance with current Civil Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No.

.....1175..... Date.....April 29, 1963.....

Signed.....

Certificate No.....

Government Approved Shop 1393. Ratings: Power Plant Class 1 and Limited Power Plant - Accessory Class 1 and Class 2.

MAJOR OVERHAUL CONTINENTAL IO-470-C ENGINE  
SN 71799-9-C

gasket set 1, 6 piston pin assy, 16 plate damperweight, 16 snap ring damperweight, 2 pin damperweight, 12 conn rod bearing, 1 timing indicator, 6 conn rod bushing, 6 piston, 1 ring set, 24 rocker arm bushing, 24 main bearing, 2 main bearing, 12 conn rod bolts, 12 conn rod nuts, 12 hyd lifter assembly, 3 keys, 4 mag drive rubber, 16 palnuts, 52 palnuts, 1 crankshaft seal assy, 2 main bearing, 1 snap ring, 1 tab washer, spring clutch, 1 generator belt, 2 gasket copper anjuler, 24 ex port studs, 1 ball bearing, 1 ball bearing, 1 bracker gen mount, 1 pushrod housing, 4 rocker arm shaft, 1 clamps, 1 felt, 12 guides, 12 spring, 12 spring, 6 ex valves, 32' shielded ign  
Speeder spring



April 3-1

Dil

SAE

wire, 42 fiberglass covering, 6 elbow,  
6 rubber grommet, 12 ceramic sleeve, 24  
amp ferrule, amp sleeve, 12 amp washer,  
12 washer, 12 screws, 2' aero duct, FUEL  
INJECTION UNIT SN 2482: 1 gasket, 4 gask  
1 plunger, 1 spring, 1 diaphragm, 1 seal  
1 screen, 2 lock-o-seal, 3 washer tab,  
2 o-ring, 2 o-ring, 2 washer wave, 2 scr  
2 washer, 3 pin, 2 washer, 2 washer wave,  
spring, 1 spring, 1 caplug, 2 grommet, 5  
grommet, 4 nut, 1 nozzle assy, 1 diaphrag  
1 ring retaining, 1 ring retaining, 1 sea  
1 plate, thrust, MAGNETO: SN 491746: 1  
oil slinger, 1 oil seal, 1 bushing, 1 brus  
1 breaker assy, 1 washer, felt, COMPLIED  
WITH SERGICE BULLETIN NO. 306, & A.D. NOTE  
60-26-2 MAGNETO SN 608609: 1 oil slinger,  
1 boiler seal, 1 bushing, 1 brush, 1 breaker  
assy, 1 distributor block, 1 shim, 1 washer  
felt, 1 condenser, COMPLIED WITH SERVICE  
BULLETIN NO. 306, 456A & A.D. NOTE 6/0-26-2



# SCHNECK ENGINE SERVICE and SUPPLY

The aircraft and/or component identified below was repaired and inspected in accordance with current Civil Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No.

.....1175..... Date..... April 29, 1963.....

Signed..... Stanley Mierniczak.....

Certificate No. E-82-531.....

Government Approved Shop 1393. Ratings: Power Plant Class 1 and Limited Power Plant - Accessory Class 1 and Class 2.

STARTER SN 827: 1 bushing, 1 bushing 4 brush, 1 oil seal, GENERATOR SN 1176: 1 armature, 1 ball bearing, 1 ball bearing, 2 brush, 1 woodruff key, VAC PUMP SN 6078: 1 bearing, 1 anchor pin, 1 metering collar, 2 shims, 1 shim, 1 o-ring, 1 coupling, LABOR OH engine, OH fuel injection, OH mag, OH mag, OH generator, OH starter, OH vac pump, EXTRA LABOR: Grind 6 cyl oversize, .010 Install & bore connecting rod bushing, Recondition starter gear shaft, Test Stand ran in 4 hrs., PROP GOV. SN 528708; 1 OH kit, Speeder spring, BULLETIN COMPLIED WITH ARE # @S S-33512-33514-33518-33520-33522-33523-33524-33526 LABOR: OH propgov.

PROPELLER : overhaul propeller,  
INSTALLATION: 1 duct, 2 mount, 4 bolt, 10qts engine oil LABOR: Remove & install engine in K-35 Bonanza N-9524-\$

- END -

TACHOMETER READS  
695.42 HRS. SM





















# CHROME PLATE, INC.

9503 Middlex Dr. San Antonio, Texas 78217

FAA - PMA - CPI - C - I  
Repair Station No. 2091



ITEM Cont. O-470 **CYL. ASSY.**

PART NO. 625859

DISPOSITION: CYLINDER BARREL USED CHROME

grind to +.015

STEEL

SIGNED E. S. Nathan DATE Jul 16 1969

**Serviceable**

*used in Reassembly Blue  
cleaned & L.H. MAG Retired  
To Engine*

ABERDEEN FLYING SERVICE  
ABERDEEN, SOUTH DAKOTA  
F.A.A. APPD. REP. STA. 3106

*BY C. L. K.*

BROUGHT FORWARD

TOTALS

I CERTIFY that this ~~part~~  
& Engine has been inspected  
in accordance with ~~the~~ ~~FAA~~  
100-Hour inspection and  
determined to be in an air-  
worthy condition.

*Charles S. Nathan  
CPI # 1287187*

BROUGHT

R. P. M.	TIME ON GROUND		TIME IN AIR		TOTAL		REPAIRS	REMARKS	SIGNATURE
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.			
23					1099	00		Engine given complete inspection #3 Cyl. Found scored & was replaced with new Fresh ground .015 Cyl Assy, <del>new</del> New Rings installed on piston. New gaskets used in reassembly. Bolts cleaned & L.H. MAG Retimed To Engine.	
<p>ABERDEEN FLYING SERVICE          ABERDEEN, SOUTH DAKOTA          F.A.A. APPD. REP. STA. 3106          BY <u>C. L. K.</u></p>									
<p>I CERTIFY that this <del>work</del> Engine has been inspected in accordance with <u>ANNUAL</u> 100-Hour inspection and is determined to be in an air-worthy condition.</p> <p><u>Charles L. Kruger</u>          2018</p>									
BROUGHT FORWARD									
TOTALS									





































ENGINE LOG

D 7-29-83 Tach.-1202.1

Engine oil was changed this date, 9 qts. of Phillips 20W-50 were added. The upper cowl baffling material was inspected and replaced as required. A new oil quick drain valve was installed. 2 spark plugs were replaced. A compression test was performed;

DATE JUL. 29 1983 T.T. IN SERVICE 1202.3  
 COMPRESSION CHECK:  
 CYL. 1 61/90 CYL. 3 76/90 CYL. 5 71/90  
 CYL. 2 68/90 CYL. 4 60/90 CYL. 6 62/90

*Mark W. Lowry*  
 AP 473680595

REPAIRS - ADJUSTMENTS

SIGNATURE

DATE  
 1-  
 2-  
 3-  
 4-  
 5-  
 6-  
 7-  
 8-  
 9-

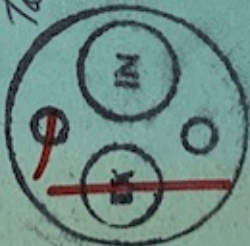
MAINTENANCE RELEASE

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Civil Air Regulations and was found air worthy for return to service. Pertinent details of the repair are on file at this agency under Work Order

No.

*16841*

*Installed 6.25.81  
 TAC 1206*



Date

*6-13-85*

Signed *Daniel Jurn*

For

HARRISON ENGINE SERVICE, INC.  
 Gov't. Approved Repair Station #3087

~~LAPORTE MUNICIPAL AIRPORT~~  
 LAPORTE, INDIANA 46350

BRO



# ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
6-25-85	Tac 1286.		-		S.M.O.H.		591.		NOTE: THIS ENGINE IS .015" O/S @ 1286		
	1- Disassemble all Cyls - Found 3 3/4 scored										
	2- Overhauled 1-5 & 2-6 cyls -										
	3- Replaced 3:4 with exc. Units. (Overhauled)										
	4- Replaced all 4 valves										
	5- Replaced # 1, 3, 5: 4 Pistons (all Pistons Bore Scored)										
	6- Reassembled using all new Rings, seals, gaskets #1-3-5: 4 Piston, 6 ea Ex Valves										
	7- Engine Sealed with 50 wgt Shell non Deleriant.										
	8- Run up Satisfactory.										
	9- Spark Rings Cleaned & Japped										
BROUGHT FORWARD											
TOTALS											

I certify that this ENGINE has been inspected in accordance with a visual inspection and was determined to be in an air-worthy condition. @ 1286  
W.W. Lewis TA 681040







Cypl. #1

JOHNSON AVIATION, INC.  
MUNICIPAL AIRPORT — NEWTON, IOWA  
FFA Approved Repair Station No. 304-17

TYPE OF UNIT Cont Cylinder  
MANUFACTURER \_\_\_\_\_  
MODEL IO-470C SERIAL NO. \_\_\_\_\_

The aircraft component identified above was repaired and inspected in accordance with Federal Aviation Regulations and this limited repair was found airworthy for return to service. Only work listed on back is covered by this release. Further repair or inspection may be required before return to service.

Details filed at this agency under W/O No. 1488

Date 5-31-89 Signed Jennett W Ford

LIMITED MAINTENANCE  
RELEASE

gapped, tested + rotated, mags timed to engine, injection nozzles cleaned. Engine washed ran up checked for leaks. AD 78-09-07 due at 1693.0 hrs. New starter motor installed

TT Prop 1480.3 Total Time 1480.3  
Tachometer 1480.3

DATE 6-16-89 TACH 1480.3

I certify that this (~~engine~~) (engine) has been inspected in accordance with a (~~100~~) (100 hour) inspection and was determined to be in airworthy condition.

"I certify that this Engine has been inspected in accordance with a Annual inspection and was determined to be in Airworthy Condition."

Richard Trumble  
FA 480864969

BROUGHT FORWARD

TOTALS

Dated 6/2/89 W/O No. \_\_\_\_\_  
Signed Bruce Law RAMP 475767102



Number  
 5  
 Installed  
 blue  
 and  
 Cont.  
 assembled  
 48014  
 46283  
 4802  
 015-  
 Over

TEMPERATURE  
 LICENSE NUMBER  
 5 7/80, 6 7/80  
 and Filter  
 cylinders  
 and  
 lance with  
 y condition

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.		
June 2 1989	Tach + Total		1480.3		SMOH 785.3		STOH 194.3			
	Compression 1 4/80, 2 73/80, 3 74/80, 4 75/80, 5 75/80, 6 73/80. Oil drained, screen checked + cleaned, serviced with Aeroshell 50w mineral. No. 1 cyl. overhauled by Johnson Aviation (see maintenance release) installed cyl with serviceable piston + pin, new rings, new gskts + seals. Induction + exhaust systems checked, air filter cleaned (386.7 hrs left on filter AD), right exhaust repaired. Plugs cleaned gapped, tested + rotated, mag timing to engine, injection nozzles cleaned. Engine washed ran up checked for leaks. AD 78-09-07 due at 16930 hrs. New starter motor installed.									
	TT Prop		1480.3		Total Time		1480.3		DATE	6-16-89
	Tachometer		1480.3		I certify that		"I certify that this Engine has been inspected in accordance with a Annual inspection and was determined to be in Airworthy Condition."			
BROUGHT FORWARD		Dated		6/2/89		W.O. No.		Richard Trimble		
TOTALS		Signed		Bruce Lane		AIP#		475767102		
								FA 480864969		





## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
									Right mag Model 6210 ser # 90020187. left mag Model 6210 ser # 90020264. Installed new Slick harness M2828. compression check 64 #1 66 #2 76 #3 75 #4 76 #5 72 #6 Douglas P. Westbrook AP468889637		
									Date 6-21-90 Tach/Hobbs 15:89 T.T. 15:89 SMOH 894 I certify that this engine has been inspected I.A.W. a annual inspection under current F.A.A. regulations, and has been found to be in an airworthy condition at this date. Tom Weske 1390683 FA		
									9-11-90 Tach 1625 changed oil Aero Shell 50wt and filter CH48110 cut old filter and inspected BROUGHT FORWARD ran engine and bolt checked TOTALS Douglas P. Westbrook AP468889637		





## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
Oct 15 1991					17	02			Tach Time Removed Manual Fuel Pump installed Overhauled unit from BTS AIRCRAFT PARTS SN K027332 Ran up and set by Manufactures Spec. D. Hays 480628281		
7-23-92									Tach 1761.52 hrs TT. Checked Timing ok Cleaved 1066.12 hrs S.Mch. plugs & gapped. Changed oil & Filter 4811D & 475.54 hrs. S.Tch. sheath 50W. Cleaved Fuel screens & leak checked. Performed comp. check 1-74, 2-74, 3-76 4-74, 5-74, 6-74. Inspected exhaust system ok		
BROUGHT FORWARD											
TOTALS											

Next Page -



## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.		
7-23-92									Tach 1761.52 Hrs II. Installed starter P/N 646238-2, 5/16 1066.12 Hrs 5/16 475.5 Hrs 5/16 Cleared air filter. Repaired baffling area oil cooler. Checked all wiring & connections Checked engine controls & lubed. Washed Leak checked I certify that this engine inspected in accordance with a 100 hrs and was determined airworthy. Sam Thomas AHP 4702	
BROUGHT FORWARD										
TOTALS										

DATE  
G  
4-93  
BROU

# ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
9-1-93									TACH 1813.54 Hrs OT. 1118.14 Hrs 5070.H. 527.56 Hrs ST.O.H. CLEANED & gapped plugs. checked timing. CLEANED FUEL NOZZLES & FUEL SCREENS. REMOVED oil filter adapter of oil filter. INSTALLED NEW <sup>PN</sup> 534862 oil SCREEN. CHANGED oil. added Shell 50W. Replaced No. 2 (exh) pushrod housing & replaced Hyd filter with NEW PN 628488 filter. Checked MV filters of exh. system. Checked ALL CONTROLS of general security. Comp 1-78, 2-78, 3-77, 4-76, 5-75, 6-76. Ground run leak & ops ok.		
I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/AIRCRAFT INSPECTION AND WAS DETERMINED AIRWORTHY.											
<i>Donald Bergman</i> AdP1824365											
BROUGHT FORWARD											
TOTALS											

E LICENSE NUMBER  
 E279215  
 ound  
 HRS  
 engine  
 WAS  
 tion  
 1112



DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE												
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.														
7-28-94	TACH	1876	62	14	11	01	22	14	5	11	04	590	14	590	14	590	14	590	14	590	14	590
<p>Cleaned &amp; gapped plugs. Checked timing. Adj. a valve  1. CLEANED FUEL NOZZLES &amp; FUEL SCREEN. Checked  all controls &amp; general security. Checked muffler  &amp; exh. system. Changed oil &amp; CLEANED SCREEN  serviced with Shell 50w Compv 1-76, 2-76, 3-76,  4-76, 5-72, 6-78. Washed engine. Ground  LEAK &amp; ops checks OK.</p>																						
<p>I CERTIFY THAT THIS ENGINE/PROP HAS  BEEN INSPECTED IN ACCORDANCE WITH A 100  HOUR/ANNUAL INSPECTION AND WAS  DETERMINED AIRWORTHY.</p> <p>Errol Bergman I.A. 1823</p>																						
BROUGHT FORWARD		TOTALS																				

## ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS - ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	GROUND	AIR	HRS.	MIN.	HRS.	MIN.	HRS.	MIN.			
8-8-95							1921.47	47	HRS TACH, 1226.07 HRS		
							5.00	04	S.M.O.H. 1035.49 HRS 5 T.O.H.		
									CLEANED & GAPPED PLUGS, CHECKED		
									TIMING. CLEANED FUEL SCREENS		
									& NOZZLES, CHECKED ALL CONTROLS		
									& GENERAL SECURITY, INSTALLED		
									NEW EXH. GASKETS & 1 STUD		
									ON NO2 CYL. CHANGED OIL &		
									CLEANED OIL SCREEN - OK.		
									COMP ✓ 1-72, 2-74, 3-77, 4-76		
									5-75, 6-76. LEAK & OPS CHECK OK.		
BROUGHT FORWARD											
TOTALS											

I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS  
BEEN INSPECTED IN ACCORDANCE WITH A 100  
HOUR/ANNUAL INSPECTION AND WAS  
DETERMINED AIRWORTHY.

*Donald Bergman* AWP 1874365






## MEMORANDUM

DATE \_\_\_\_\_

## Airworthiness directives

- 60-76-2 Lubricated IMAG Rotors *Paul S. Kringer*
- 62-17-1 Prop checked at 1104:00 hrs <sup>9211 1255159</sup> of K.
- 69-26-4 C/W 1156 hrs DUE NEXT AT 1256
- 78-9-7 Impulse coupling insp. AT 1193 DUE AT 1693:00 hrs



 **TELEDYNE CONTINENTAL MOTORS**  
Aircraft Products Division

**INSTALLATION INSTRUCTIONS**  
**STARTER MOTOR - ENERGIZER® (12V & 24V)**

- 1- WARNING! ENGINE MUST BE GROUNDED TO AIRCRAFT.
- 2- INSTALL NEW "O"-RING (MS9021-038) ON STARTER. TORQUE MOUNTING NUTS: 275-325 IN-LBS, 23-27 FT-LBS.
- 3- TORQUE CABLE NUT: 140-190 IN-LBS, 12-16 FT-LBS.
- 4- OPERATING LIMITS: 30 SECONDS ON, 1 MINUTE OFF, 30 SECONDS ON, 1 MINUTE OFF, 30 SECONDS ON, 1 MINUTE OFF — SHUT DOWN 10-30 MINUTES TO COOL STARTER.

PART NAME Fuel Pump

**FAA/PMA APPROVED**

THIS MAGNETO WAS MANUFACTURED FROM ALL NEW COMPONENTS IN ACCORDANCE WITH FAR 21.303h UNDER AUTHORITY OF MMF3226 AND IS AIRWORTHY. THIS MAGNETO IS FAA/PMA APPROVED FOR APPLICATIONS LISTED IN SLICK AIRCRAFT PRODUCTS FORMS L-1058 AND L-1199.

ENTER MAGNETO MODEL, SERIAL NUMBER AND DATE OF INSTALLATION AND ATTACH THIS TAG TO ENGINE LOGBOOK.

MAGNETO MODEL NO. 6210  
MAGNETO SERIAL NO. Leaf 90020769  
DATE OF INSTALLATION 6-21-90

Conformance with current  
regulations. Pertinent details

14  
*[Signature]*  
9-91

15-9

1693:00hrs







THE  
**adlog**<sup>TM</sup>

AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**ENGINE  
MAINTENANCE  
RECORDS**

# ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No. \_\_\_\_\_

Engine Manufacturer \_\_\_\_\_

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) \_\_\_\_\_ Hours

If used on multi-engine aircraft:

- |                                |                               |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



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

## BOLDUC AVIATION SPECIALIZED SERVICES, INC.

Continental & Lycoming Replacement Parts List

WORK ORDER: 1166 CUSTOMER: MINNESOTA BEARING COMPANY  
 DATE 11/30/95 MODEL: IO-470)-C S/N: 71799-9-C

QUAN.	PART #	DESCRIPTON	QUAN.	PART #	DESCRIPTION
1	626049-A4	Gasket Set	24	401893P3	Studs, Exhaust
1	641250	Seal, Crank	1	539800M015	Spring, Starter
1	627795-A3	Bearing Set, Main	1	X13041	Bearing, Starter
2	530383	Bearing, Rod	1	534685	Bearing, Starter
2	35972	Bolt, Rod	1	641368	Bearing, Starter
2	626140	Nut, Rod	1	537721	Bearing, Starter
2	639292	Cotter Key	1	634150	Spring, Oil Press.
6	530658	Bushing, Rod	4	638172	Coupling, Rubber
12	628488	Lifter	12	REM38E	Spark Plugs
1	535661	Camshaft, Reground	1	536563	Dowel, Crank
8	350998	Bushing, Blade	1	1101912	Exch. Generator
16	639193	Bushing, Cwt.	1	646238-2	Exch. Starter
16	643629	Plate, Cwt.	2	6310	Slick Mags.
16	629104	Retainer, Cwt.	1	C14-11AS-II	Skytronics Harness
4	643626-101	Roller			
2	643626-104	Roller			
2	643626-106	Roller			
6	648028P015	Piston			
1	4000-A2P015	Ring Set			
6	539467	Pin, Piston			
6	643767P5	Guide, Exhaust			
6	643766P5	Guide, Intake			
4	630591P5	Seat, Intake			
4	35967P5	Seat, Exhaust			
6	643873	Valve, Exhaust			
12	631521	Spring, Valve			
12	637837	Spring, Valve			
12	629117-1	Roto Coil			
6	646985	Seal, Intake			
24	24802	Keepers			
24	639629	Bushing, Rocker			
12	652984	Shaft, Rocker			
12	MS90725-12	Bolt, Rocker			
12	652947	Washer, Rocker			
12	MS21209C4-15	Helicoil, Rocker			


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### INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11/30/95	11663	IO-470 S/N 71789-9-C

Date 11/30/95 w/o 11663 Tach \_\_\_\_\_ Model IO-470 S/N 71789-9-C  
 This is to certify that the engine identified above was overhauled in accordance with current regulations of the FAA and was approved for return to service. Pertinent details of the overhaul are on file at the repair station.

Major overhaul. Disassembled, cleaned & inspected all parts. Magnafluxed steel parts & zygloed nonferrous parts. Balanced engine. Exchanged both magnetos, starter & alternator. Fuel injection system was overhauled & recertified by Aircraft Fuel Specialist (see release). Installed new ignition harness, spark plugs. Installed reground camshaft. Cylinders were ground .015 oversize. See attached sheet for additional parts replaced. Assembled engine per overhaul manual. Engine test runup checked OK.

Complied with SB#92-6, Rockershaft  
**BOLDUC AVIATION SPECIALIZED SERVICES, INC.**

F.A.A. Approved Repair Station KM5R993M  
 8891 Airport Road, Minneapolis, MN 55484

*[Handwritten Signature]*  
 Authorized Signature

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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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8-01-97	2003.1	67.1	2003.1	<p>CLEANED ENGINE &amp; COUPLING AND CONDUCTED A 100 HOUR INSPECTION AND SERVICE IN ACCORDANCE WITH BEECHCRAFT 100 HOUR INSPECTION GUIDE. DRAINED ENGINE OIL, INSPECTED OIL SCREEN, &amp; SERVICED ENGINE WITH AEROSTEAL 100W. CHECK CYLINDER COMPRESSION /80 (1) 72 (2) 71 (3) 71 (4) 72 (5) 69 (6) 73. CLEANED, GAPPED, &amp; TESTED SPARK PLUGS. CHECKED TIMING. GROUND RUN LEAK &amp; OPS CHECKED — I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p style="text-align: right;">AIP N24704405 Kenneth Ray Hobbs</p>
4/24/98	2042.2	106.2	2042.2	<p>CLEANED ENGINE &amp; COUPLING AND CONDUCTED A 100 HOUR INSPECTION AND SERVICE I/A/W BEECHCRAFT 100 HR INSPECTION GUIDE. DRAINED ENGINE OIL, INSPECTED OIL SCREEN &amp; SERVICED WITH AEROSTEAL 100W. CYLINDER /80 (1) 72 (2) 72 (3) 71 (4) 72 (5) 70 (6) 72. CLEANED, &amp; TESTED SPARK PLUGS. GROUND-RUN. LEAK OK-OK I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION &amp; WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p style="text-align: right;">AIP N24704405 Kenneth Ray Hobbs</p>
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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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7-6-98	2074.5			Drained oil, checked screen serviced with 9 qts 100W AeroShell Run up check ok. Paint Dinned TASOLDUC AU CAS 4MS 89930M
04/29/99	2103.2		2103.2	CLEANED ENGINE & COWLING AND CONDUCTED A 100 HR INSPECTION F/A/W BEECHCRAFT 100 HR INSPECTION GUIDE. DRAINED ENGINE OIL, INSPECTED OIL SCREEN & SERVICED WITH AERO SHELL 100W. CYLINDER/30 (1) 70 (2) 71 (3) 70 (4) 72 (5) 70 (6) 71. GROUND-RUN-LEAK OK-OK. I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A/P 42470445 Kenneth Reptell
10-8-99			TACH 2165.13	HRS CHANGED OIL & CLEANED OIL SCREEN. SCREEN OK. 15W50 SHELL LEAK CHECK OK. Harold Bergman A/P 1824365
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8-21-01	2282.814	316.814	2882.814	<p>CLEANED &amp; GAPPED PLUGS, CHECKED TIMING, CLEAN FUEL NOZZLES &amp; FUEL SCREENS, CHECKED ALL CONTROLS &amp; GENERAL SECURITY. CHECKED EXH. SYSTEM. CHECKED COMPRESSION: 1-45E, 2-60E, 3-70, 4-60, 5-70, 6-60. REMOVED CYLS NO 1 &amp; 2 SHIPPED TO BOLDUC FOR REPAIR. REINSTALLED REPAIRED CYLS, USING NEW RING &amp; GASKETS. WORK CONDUCTED PER TCM IO-470 PARTS &amp; O'HALL MANUALS. INSTALLED SHELL MINERAL OIL 100 WEIGHT. CLEANED OIL SCREEN. GROUND RUN LEAK &amp; OPS CHECKS OK.</p> <p>I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED AIRWORTHY.  <i>Donald Sogman</i> AIP1824365.</p>

ation Specialized Services, Inc.

Minneapolis, Minnesota

Airport Road

REPAIRED IN ACCORDANCE WITH AVIATION AD-VENT DETAILS

PRELIMINARY INSPECTION COMPLETED BY \_\_\_\_\_  
 INSPECTION FOR HIDDEN DAMAGE COMPLETED BY \_\_\_\_\_  
 IN PROGRESS OF REPAIR & OVERHAUL INSP. COMP. BY \_\_\_\_\_  
 FINAL INSPECTION COMPLETED BY \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_

543 66



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
	↓	↓	↓	<b>TOTALS</b> brought forward from previous page
8-21-02	2329.31	393.31	2329.31	<p>Cleaned &amp; gapped plugs. checked timing.                      Cleaned fuel nozzles &amp; fuel screens.                      Checked all controls &amp; general security.                      Changed oil &amp; cleaned oil filter. 15W50 shell installed. Replaced LH muffler (SEE AIRCRAFT LOG). Comp check 1-62, 2-68, 3-68, 4-64, 5-66, 6-68. Ground run leak &amp; ops checks OK.</p> <p>I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED AIRWORTHY.</p> <p><i>Ronald Youngman</i> #P1824365</p>
8-1-03	2385.81 Hrs. T.T.	449.8 Hrs S.M.O.H.	Tach. 2385.8 Hrs	<p>Cleaned &amp; gapped plugs, checked timing.                      Cleaned fuel nozzles &amp; fuel screens.                      Checked all controls &amp; general security.                      Changed oil &amp; cleaned oil screen. 10W40 shell 50W. Comp 1-68, 2-68, 3-62, 4-68, 5-66 6-68. Checked exh. system. Ground run leak &amp; ops checks OK.</p> <p>I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR/ANNUAL INSPECTION AND WAS DETERMINED AIRWORTHY.</p> <p><i>Ronald Youngman</i> #P1824365</p>
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9-13-04 Tach, 2419.58 TAT, 2419.58 TSMOH, 483.57.

Changed oil & cleaned oil screen, cleaned fuel nozzles and screens, checked engine controls. checked timing, Idle speed, mixture, cleaned & gapped plugs. Checked AD's through 2004-17. For Compliance & Applicability See AD compliance record in AD section of this log. Dressed & Painted Prop.

Date 9-13-04 Tach 2419.58 T.T. 2419.58

I certify that this Engine/Prop  
Has been Inspected in accordance with a Annual inspection and was determined to be in airworthy condition.

Other details of this inspection are on file at this facility under

W. O. # 7387

Signed Steve N. Wells ALS22259654 IA  
Edwards Jet Center - Kalispell, MT

DATE 10/7/04 A/C HRS. 2427.00 N# 999FM

Replace A/C Generator P/N 1101912 with overhauled one P/N 1101912RX also replace Voltage Regulator with new P/N 0413205-11. Installed new engine block heater. Ops check good with all items good at this time.

GEN SER. # ON 9547 Reg Ser # on 80501610

Work Order(s) 714201  
Signed: [Signature] 2740500/ATP

Edwards Jet Center of Montana  
Glacier Park International Airport  
Kalispell, MT 59901  
Phone (406) 755-5362  
Fax (406) 755-5900

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Date 13 Oct 06 Tach 2445.06 T.T. 2445.06 TSMOH 509.06  
 I certify that this engine  
 Has been inspected in accordance with service Q  
 a 100hr inspection and was (w/7) Aeroshell  
 determined to be in airworthy condition.  
 Other details of this inspection are on 15W50  
 file at this facility under  
 W. O. # 172409 AD's Thru 2005-20  
 Signed [Signature] IA 2740520 AP  
 Edwards Jet Center - Kalispell, MT

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
60	62	62	58	63	61

**MINUTEMAN AVIATION INC.**  
**5225 HWY 10 WEST-BOX 16, MISSOULA, MT. 59808**  
 AIRCRAFT: N999FM MODEL: ~~X~~35 TACH: 2452.2

Installed new terminal end on CHT wiring harness at CHT probe. Ops Check ok

DATE: 5-19-2006  
 SIGNED: [Signature]  
 CERTIFIED REPAIR STATION: MINR449G

Date 12-22-06 Tach 2468.4 T.T. 2468.4 TSMO 532.4  
 I certify that this Engine  
 Has been inspected in accordance with Service w/AFS  
 a 100hr inspection and was 15W50 cleaned  
 determined to be in airworthy condition Screen, cleaned  
 Other details of this inspection are on & Gapped Plugs.  
 file at this facility under  
 W. O. # 9396 AD's checked  
 Signed [Signature] IA 3032638 through 2006-  
 Edwards Jet Center - Kalispell, MT

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
80	80	80	80	80	80
59	66	72	60	64	68

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Date 22407 Tach 2483.0 T.T. 547  
TS40

I certify that this Engine  
Has been inspected in accordance with  
a 100hr/Annual inspection and was  
determined to be in airworthy condition.

Other details of this inspection are on  
file at this facility under

W.O. # AC 9749

Signed Steve N. Welch AP/IA 3037638

Edwards Jet Center - Kalispell, MT

Drained oil, Insp filter, no contamination  
cleaned & gapped plugs. Set idle mix.  
serviced w/ AC15W50 oil & new CH48108 filter  
Run up, leak & ops check good.

~ End ~

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
08	08	08	08	08	08



4170 US Hwy. 2 East, Kalispell, MT 59901 406-755-5362

2-4-09, N999FM, TACH / TAT 2495.6, IO-470-C TSO 559.6

Drained oil, inspected filter, no defects. Serviced W/ AS 15w50 & new CH48108 filter. Compression check :  
#1 60/80, #2 66/80, #3 75/80, #4 75/80, #5 66/80, #6 67/80. Cleaned insp. and tested plugs, gapped and  
reinstalled. Dressed & inspected propeller. Performed run-up & leak and op's check ok. See AD compliance  
record in A/C records. C/W AD 62-17-01 by Insp of prop hub, no defects.

I Certify that this ENGINE / PROPELLER has been inspected IAW a 100HR/Annual inspection, and was  
determined to be in airworthy condition. Pertinent details of this inspection are on file at this facility under  
W/O # AC-10092

Steve N. Welch IA 3037638 2-4-09

DIFFERENTIAL COMPRESSION TEST					
#1	#2	#3	#4	#5	#6
80	80	80	80	80	80

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4170 US Hwy. 2 East Kalispell, MT 59901  
406-755-5362

3-26-12, N999FM, TACH & TAT 2519.0  
10470-C, s/n 71799-9-C, TET-1942.3, TSMO-583.0

C/W Annual Inspection per 14 CFR part 43 Appx. D. Oil drained, filter inspected for contamination, none noted, serviced W/ 10 Qts. AS 15W50 and new 108 filter. Compression as follows: #1-60, #2-62, #3-70, #4-64, #5-62, #6-64, all over 80 PSI ref. Replaced all (6) fine wire plugs W/ new massive plugs (REM38E). The other 6 massive plugs were cleaned tested and gapped, & found ok for continued service. Mags removed and sent for 500 Hr. Insp. Reinstalled same Mags in same positions after made serviceable by Aircraft Magneto Service. See yellow tags in this log. Timed to engine and run up and all op's & leak checks good. I certify that this Engine has been inspected IAW an 100 Hr. / Annual Inspection and was determined to be in Airworthy condition.

*Steve N. Welch JA3037638*



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

5-2-13, N999FM, TACH / TAT-2527.1  
10-470-C, S/N 71799-9-C, TET-1950.4, TSO-591.1

C/W 100 Hr. Insp. Drained oil, inspected filter, no contamination. Serviced W/ 9 Qts. AS 15W50 & new CH48108-1. All compression 65/80 or better. Performed post insp. run up and all operational & leak checks good. I Certify that this ENGINE has been inspected IAW a 100 Hr. / Annual Inspection and was determined to be in Airworthy condition. Pertinent details of file at this facility under W/O AC-11499.

*Steve N. Welch JA 3037638*


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4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

**6-10-14, N999FM, TACH / TAT-2529.2**

**IO-470-C, S/N 71799-9-C, TET-1952.5, TSO-593.2**

C/W 100 Hr. Insp. Drained oil, inspected filter, no contamination. Serviced W/ 9 Qts. AS 15W50 & new CH48108-1. All compression 62/80 or better. Replaced Engine fuel manifold valve (spider) W/New P/N 629283A3 unit, Op's & leak check good. Performed post insp. run up and all operational & leak checks good. I Certify that this ENGINE has been inspected IAW a 100 Hr. / Annual Inspection and was determined to be in Airworthy condition. Pertinent details of file at this facility under W/O AC-11884.

*Steve N. Wells* APTIA 3037638



4170 US Hwy. 2 East Kalispell, MT 59901 406-755-5362

**2-1-2016, N999FM, TACH / TAT-2530.8**

**IO-470-C, S/N 71799-9-C, TET-1954.1, TSO-594.8**

C/W 100 Hr. Insp. inspected filter, no contamination. Compression check as follows, #1-56/80, #2-64/80, #3-72/80, #4-58/80, #5-64/80, #6- 64/80. AD's checked trough 2016-2. Performed post insp. run up and all operational & leak checks good. I Certify that this ENGINE has been inspected IAW a 100 Hr. / Annual Inspection and was determined to be in Airworthy condition. Pertinent details of file at this facility under W/O AC-0223.

*Steve N. Wells* APTIA 3037638


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2/05/17	2018.89	659.58	2595.58	<p>Checked engine oil, cleaned &amp; gapped spark plugs  checked mag timing, cleaned air filter, inspected  intake &amp; exhaust systems, inspection &amp; lubeo eng  controls, compression check #1 65/80 #2 64/80 #3 65/80  #4 66/80 #5 64/80 #6 66/80. Checked all AD's thru  this date. I certify that this engine has been  inspected IAW an annual inspection and was  determined to be in an airworthy condition.  Chy S. Hly IA 3321473 AOP</p>
12-5-17	2118.94	759.64	2695.44	<p>Removed stick magnetos model 6310R  Replaced with Champion model 6310R  S/N 17070258, SN 17070259, M2381  HARNES &amp; Champion RHU38E  spark plugs, OAS check 75 RPM  drop on each mag neto  Wm A lells 3384041 IA</p>
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N999FM \* BEECH K35 \* S/N: D-6160  
 TCM \* O-470-C \* S/N: 71799-9-C  
 TACH: 2705.38 \* SMOH: 769.38 \* TTE: 2705.38  
 JUNE 06, 2018

- COMPLIED WITH ENGINE ANNUAL/100 INSPECTION THIS DATE IN ACCORDANCE WITH FAR 43 APPENDIX D CHECKLIST.
- AD RESEARCH C/W. NO NEW OR RECURRING AD'S DUE AT THIS TIME.
- CHECKED COMPRESSIONS. 1.) 67/80 2.) 53/80 3.) 65/80 4.) 59/80 5.) 64/80 6.) 60/80 MASTER ORIFICE: 44/80
- DRAINED ENGINE OIL. REMOVED OIL FILTER, CUT OPEN AND INSPECTED. NO DISCREPANCIES NOTED. INSTALLED NEW CHAMPION CH48108-1 OIL FILTER. SERVICED ENGINE WITH 9 QTS OF AEROSHELL 15W-50 AVIATION OIL. RAN ENGINE, LEAK AND OPS CHECKED GOOD AT THIS TIME.
- REMOVED SPARK PLUGS, CLEANED, INSPECTED, GAPPED, TESTED AND REINSTALLED.
- PERFORMED FUEL FLOW SETUP IAW TCM SID97-3F. OPS AND LEAK CHECKED GOOD AT THIS TIME.

I CERTIFY I HAVE INSPECTED THIS ENGINE IN ACCORDANCE WITH AN ANNUAL/100 HOUR INSPECTION PER FAR 43 APPENDIX D CHECKLIST AND FOUND IT TO BE IN AIRWORTHY CONDITION.

CHRIS EMERSON

A&P 3327248 IA

JB West Aviation, LLC  
 202 Burns Rd.  
 Dumas, AR 71639

(870)382-2216 or (870)299-3861

Date: 08/19/2019 Reg# N999FM SN: D-6160 Tach: 2766.39 TTEng: 2766.39 TSMOH: 830.39

Inspected engine in accordance with Beech 35 series manual and 14CFR43(d). Lubed controls and rod ends.  
 Checked control travels. Checked magneto to engine timing.

**AD's Complied with:**

Performed AD research for this engine, none noted.

**Other Maintenance:**

- 1) Cleaned, gapped, tested, and rotated spark plugs.
- 2) Drained oil, opened filter, no contaminants noted.
- 3) Installed new oil filter PN: CH48108-1. Serviced engine with 10 Qts. Aeroshell Oil W-100.
- 4) Performed compression test: 1)66/80 2)44/80 3)52/80 4)53/80 5)64/80 6)60/80. Master orifice indication this date: 42/80.

Performed engine run-up. Ops check satisfactory, no defects noted.

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

James B. West

AP3087142IA

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