

2220L

TEXTRON Lycoming

ENGINE LOG

SSP-1872-1

TEXTRON Lycoming

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

ENGINE LOG AND MAINTENANCE RECORD

Place Engine Certificate Here

RECORD OF TEXTRON LYCOMING IO-360-A186 L-5220-51A
MAKE MODEL SERIAL

FROM 1-29-02 2002 TO _____ 19 _____

DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP 1872-1

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October 1994

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

TLRED-489
(Rev. 10-96)

This engine has been overhauled/~~rebuilt~~ in accordance with the applicable Textron Lycoming manuals. All applicable Federal Aviation Administration Airworthiness Directives and Textron Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are either new or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: IO-360-A1B6
Serial #: L-5220-51A
Total Time: 5032.4
Work Order #: AR172423
Date Completed: 12/18/01

Authorized Signature Margie Dugan
Textron Lycoming
652 Oliver Street
Williamsport, PA 17701
Repair Station: EJ1R115K

ENGINE DESCRIPTION

Mfgr. TEXTRON LYCOMING	Place Williamsport, PA 17701	Date	
Type	Model	Serial No.	
Rated H.P.	Max. H.P.	Weight (Dry)	
Rated R.P.M.	Max. R.P.M.	Oil Pressure	
Bore	Stroke	Displacement	Cu. In.
Compression Ratio	Supercharger Ratio		
Reduction Gear Ratio			
Propeller	Hub Design	Hub Serial No.	
Blade Design	Blade Serial No.	Blade Serial No.	
Max. Hub H.P.	Max. Blade H.P.		
Pitch	Diameter	Length	
Name			
Address			

SERVICEABLE PART

Manufacturer _____ TEXTRON LYCOMING _____
Part Name _____ AIRCRAFT ENGINE _____
Model No. _____ IO-360-A1B6 _____
Serial No. _____ L - 5220-51A _____
Remarks _____

The aircraft engine or accessory identified above was:

- Rebuilt
 Overhauled
 Repaired

and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under order no: AR172423

Date 12-18-01

Signed

Margie Dugan
Signature of Authorized Person

FOR: Textron Lycoming
652 Oliver Street
Williamsport, PA 17701 USA

FAA Repair Station #EJ1R115K

Form 302A Rev. 3/01

segment of a
and

Signature

License
Number

ENGINE LOG

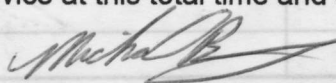
Serial No. _____

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

N2220L Lycoming IO-360-A1B6 S/N L-5220-51A 1-29-02
TACH TIME 3900.45 TSMOH: 0.2 Hobbs:2309.1

Removed engine. Lycoming Model # IO-360-A1B6 / Serial # L-15769-51A and installed a Lycoming factory overhauled engine. Model # IO-360-A1B6 / Serial # L-5220-51A, IAW Lycoming / Beech B-24R maintenance manuals. Complied with 100 hour inspection IAW Lycoming / Beech B-24R Maintenance manuals and FAR 43 (appendix "D"). Ran engine, leak checked. No defects or leaks noted. I certify this engine has been inspected IAW 100 hour and was determined to be in airworthy condition for test flight and return to service at this total time and date.

Michael Berry
A&P 453779010



Page Total		
		Brought Forward
		Total to Date

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

N2220L

JORDAN PROPELLER SERVICE, INC.

Form W-2

SERVICEABLE

Cliff Hyde Flying Service

NAME _____

~~PROPELLER~~ — GOVERNOR — ~~BLADE~~ — HUB

MODEL A210490

SERIAL 1120809E

PITCH-HIGH ---- LOW ---- INDEX/ ----
REV. ----

OUTPUT PRESS. 320 QT.PER.MIN. 5

MIN. RPM 1040 MAX. RPM 2340

REMARKS _____

OVERHAULED

REPAIRED

INSPECTED

TESTED

YOUR ORDER NO. _____

OUR ORDER NO. 5764

MAINTENANCE RELEASE

This stamped paper is an official document and shall be kept with the AIR-CRAFT'S OFFICIAL HISTORICAL RECORDS. Work accomplished under the above listed work order number is on file at this agency. The above component was repaired and/or inspected in accordance with the current FEDERAL AVIATION REGULATION, and approved for return to service. The mechanic making the installation must COMPLY WITH FAR 43.9.

SIGNED Carroll Hood DATE 02-07-02

JORDAN PROPELLER SERVICE, INC.

6820 PICCADILLY • HOUSTON, TEXAS 77061

FAA APPROVED REPAIR STATION EK2D797K

Page Total
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Total to Date

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

License
Number

Date

N2220L

DRAINED
CHANGED
CLEANED
#2-77/80, #
PROP ANI
INSTALL
PRESSUR
LUBED ST
ADJUSTE
RE-TORQU

5/30/24

ENGINE LOG

Serial No. _____

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

N2220L 5-29-02 TACH - 3998.42

DRAINED ALL SUMPS, CLEANED ALL FILTERS AND SCREENS,
 CHANGED OIL AND FILTER, SERVICED WITH 7QTS 100W, WASHED ENGINE,
 CLEANED AND GAPPED SPARK PLUGS, CHECKED COMPRESSION- #1-75/80,
 #2-77/80, #3-77/80, #4-77/80, CHECKED TIMING-CHECKED O.K., LUBRICATED
 PROP AND CONTROLS.
 INSTALLED NEW AIR FILTER P/N- BA 7305 -
 PRESSURE CHECK EXHAUST- CHECKED O.K.
 LUBED STARTER
 ADJUSTED FULL RICH STOP
 RE-TORQUED PROP GOV. NUTS-LEAK AND OPS CHECKED O.K

I certify that this aircraft/engine has been
 inspected in accordance with an ~~annual~~ **100 hr**
 inspection and was determined to be in
 airworthy condition. Total Time **3998.42**
 Signed *Raymond Smith* for
1+N103623209 WO# **11562**
GALKINS AERO SERVICE INC.
FAA Certified Repair Sta.
No. GK2RB49K

5/30/2002	TACH	3998.92	C/W AD 93-02-05 BY INSPECTION OF FUEL INJECTION LINES AND CLAMPS.	NO DEFECTS
			NOTED. RETURN TO SERVICE, <u><i>Danny L Arington III</i></u> AA452066901A	
			Due Again Next DUE AGAIN NEXT	
			100 HRS 100 HRS	
			Estimated Date	

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			
6/20/02	TACH	40	37.38 HOBBS 2475.7 PROP ASSEMBLY REMOVED FOR INSPECTION AND/OR OVERHAUL AS PER AD 2002-09-08. CURRENT PROP ASSEMBLY HAS PREVIOUSLY C/W AD 77-12-06 MANY TIMES OVER THE DECADES BUT NO PAPERWORK CAN BE FOUND TO SATISFY REQUIREMENTS OF NEW SUPERCEADING AD 2002-09-08. PROP ASSEMBLY DELIVERED TO R AND D PROPELLER SERVICE OF HOUSTON.	Darryl L. Arington III	AP452066901IA
7/9/02	TACH	40	7.38 HOBBS 2475.7 PROP ASSEMBLY RETURNS FROM R AND D PROPELLER SERVICE ON THEIR WO # (INVOICE) 12892 AS OVERHAULED WITH USED SERVICEABLE BLADES ON SAME PREVIOUS HUB. INSTALL, TORQUE AND SAFETY I/A/W HARTZELL PROP MANUAL # 115 AIRCRAFT AVAILABLE FOR TEST FLIGHT BY COMPANY PILOT.	Darryl L. Arington III	AP452066901IA
			Page Total	All Repair Data Must Bear the Endorsement of a Certified 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			
7/11/02	TACH	4038.79	HOBBS 2478.0 AIRCRAFT SUCCESSFULLY FLOWN BY CHIEF INSTRUCTOR. NO DISCREPANCIES NOTED. AIRCRAFT AVAILABLE FOR RETURN TO SERVICE.	<i>Danny L. Arington III</i>	AP452066901IA
8/30/02	TACH	4094.57	HOBBS 2547.4 REMOVED FAILED VACUUM PUMP W/ SHEARED SHAFT AND REPLACED W/ NEWLY OVERHAULED RADCO P/M 211LL S/M 102689. INSTALLED W/ NEW GASKET AND MOUNTING HARDWARE. VACUUM FILTER WAS ALSO REPLACED. OPS CHECK WAS GOOD AND AIRCRAFT AVAILABLE FOR RETURN TO SERVICE.	<i>Danny L. Arington III</i>	AP452066901 IA
Page Total			All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
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Total to Date					

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
8/30/02	TACH	4094.66	C/W AD 93-02-05 BY INSPECTION OF INJECTION FUEL LINES AND CLAMPS, NO DEFECTS NOTED. DUE AGAIN NEXT 100 HRS. AIRCRAFT AVAILABLE FOR RETURN TO SERVICE. ~ Danny L Arington III AP 4520 66901 IA ~		
12-2-02	4192.3		100 Hour inspection performed in accordance with FAR 43 Appendix D and Calkins Aero check list. Changed oil and filter, serviced engine with Tqts Shell 50W and filter CH48110. Complied with AD 93-02-05 fuel injection line and clamp inspection. COMPRESSION CHECK #1 75/180 #2 78/180 #3 78/180 #4 77/180 #5 X 180 #6 X 180 <i>continued next page</i>		
			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.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
12-2-02	4	19.3	<i>continuation</i>		
			Drained all sumps, cleaned all filters & screens, changed oil, washed engine, cleaned & gapped plugs, checked compression & timing, lubricated props & controls.		
			I certify that this aircraft engine has been inspected in accordance with an annual inspection and was determined to be in <i>100 hours</i> airworthy condition. Total Time <u>532.04</u>		
			Signed <u><i>[Signature]</i></u> for <u>WD # 012121</u>		
			CALKINS AERO SERVICE INC. FAA Certified Repair Sta. No. GK2RB49K		
			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.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS /	Signature	License Number
	Hrs	Min			
2/18/03	TACH:	4288.50	TSMOH: 387.91 ENGINE TOTAL TIME: 5420.3 ~ PERFORMED 100 HR		IMSP I/A/W
			14 CFR FAR 43 APPENDIX D AND BELLH B-2R M/M. RAN ENGINE. COMP CHECK #1 79/00		
			#2 77/00 #3 79/00 #4 78/00 DRAINED OIL, CHECKED AND CLEANED OIL SCREEN. REPLACED		
			FILTER W/ NEW CH48110 AND SERVICED W/ BOLTS W80 ACROSHELL OIL. CLEANED,		
			SERVICED AND ROTATED SPARK PLUGS. MAG TIMING CHECKED AND NO ADJUSTMENT		
			NEEDED. SERVICED ALL FUEL INJECTORS. 9W AD93-02-05 BY IMSP OF INJECTION		
			FUEL LINES AND CLAMPS. NO DEFECTS NOTED. DUE AGAIN NEXT 100 HRS. LUBED		
			STARTER. LUBED CONTROLS. NOTED OIL LEAKS. FOUND 3 CASE HALF BOLTS LOOSE -		
			TORQUED TO SPECS. OIL COOLER LINES @ ACCESSORY SECTION TORQUED TO SPECS.		
			DURING RUN-UP - L MAG WOULD NOT OPERATE SMOOTHLY - INSTALLED... (CONT NEXT PAGE)		
			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			
2/18/03	TACH	4288.56	(CONTINUATION)... 4 NEW REM30E PLUGS FOR L MAG. RUN-UP WAS GOOD. NO OIL LEAKS NOTED. ~ I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W 100 HR INSP AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND AVAILABLE FOR RETURN TO SERVICE. ~ <i>Danny L Amington III</i> AP452066901IA		
2/18/03	TACH	4288.56	AD93-02-05 SUPERSEDED - C/W AD 2002-26-01 BY VISUAL INSPECTION OF FUEL INJECTION LINES AND CLAMPS. NO DEFECTS NOTED. DUE AGAIN NEXT 100 HRS T.I.S. AIRCRAFT AVAILABLE FOR RETURN TO SERVICE. ~ <i>Danny L Amington III</i> AP452066901IA		
Page Total			All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
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Total to Date					

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
5/16/03	Tach	43	83,54 TSMOH: 482,89 ENGINE TOTAL TIME: 5515,28 ~ PERFORMED 100 HR IMSP		
			IA/W 14 CFR FAR 43 APPENDIX 'D' AND BERCH B24R M/M. RAN ENGINE. COMP		
			CHECK #1 ⁷⁹ / ₈₀ #2 ⁷⁹ / ₈₀ #3 ⁷⁹ / ₈₀ #4 ⁷⁸ / ₈₀ . DRAINED OIL, CHECKED AND CLEANED		
			OIL SCREEN. REPLACES FILTER W/MEW CH48110 AND SERVICED W/ 8 QTS W100		
			AEROSHELL OIL. CLEANED, SERVICED AND POTATED SPARK PLUGS. MAG TIMING		
			CHECKED GOOD - NO ADJUSTMENTS MADE. CLEANED ALL FUEL INJECTORS. C/W		
			AD 2002-26-01 BY VISUAL INSPECTION OF FUEL INJECTION LINES AND CLAMPS - NO		
			DEFECTS NOTED - DUE AGAIN NEXT 100 HRS T.I.S. LUBED STARTER AND ENGINE		
			CONTROLS, INTAKE, EXHAUST AND ELECTRICAL SYSTEMS ALL CHECKED GOOD.		
			RUN-UP WAS GOOD - NO LEAKS NOTED — I CERTIFY THAT THIS ENGINE HAS		
			BEEN INSPECTED IA/W 100 HR INSPECTION AND WAS DETERMINED		
			TO BE IN AIRWORTHY CONDITION AND AVAILABLE FOR RETURN		
			TO SERVICE. <i>Darryl L. Amington III</i> AP452066901 RA		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
9/10/03	TACH	448.4	TSMOH: 579.75 ENGINE TOTAL TIME: 5612.14 — NOTE: AIRCRAFT HAS BEEN PARKED AND DID NOT OVERFLY ANNUAL — PERFORMED 100 HR IMSP I/A/W 14 CFR FAR 43 APPENDIX D AND BEECH B24R M/M. RAN ENGINE, COMP CHECK #1 79/80 #2 79/80 #3 79/80 #4 79/80. DRAINED OIL, CHECKED AND CLEANED OIL SCREEN, REPLACED FILTER W/ NEW CH48110 AND SERVICED W/ 8 QTS W100 ACROSHULL OIL, SERVICES, TESTED AND ROTATED SPARK PLUGS, CHECKED MAGNETO TIMING - ADJUSTED R MAG FROM ≈ 23° TO 20° AS PER ENGINE DATA PLATE. CLEANED FUEL INJECTORS, INTAKE, EXHAUST, FUEL AND ELECTRICAL SYSTEMS ALL CHECKED GOOD, LUBED STARTER AND ENGINE CONTROLS. TIGHTENED ALL OIL RETURN LINE CLAMPS. 9WAD 2002-26-01 BY INSPECTION OF FUEL INJECTION LINES AND CLAMPS — ... (CONT NEXT PAGE)		
			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			
9/10/03	Tail	4480.4	(CONT) ... NO DEFECTS NOTED - DUE AGAIN NEXT 100 HRS TIS. RUN-UP WAS GOOD - NO LEAKS NOTED. — I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND AVAILABLE FOR RETURN TO SERVICE.	_____	
			<i>Darryl L. Amington III</i> AP452066901IA	_____	
9/10/03	Tail	4480.4	DURING ABOVE STATED ANNUAL INSPECTION — REPLACED SCORCHED INDUCTION AIR FILTER ELEMENT w/ NEW BA7305 ELEMENT - OPS CHECK WAS GOOD - AIRCRAFT AVAILABLE FOR RETURN TO SERVICE.	_____	
			<i>Darryl L. Amington III</i> AP452066901IA	_____	
			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			
2/9/04	TAMH	457	7.61 TSMOH: 676.96 ENGINE TOTAL TIME: 5709.35 PERFORMED 100 HR IMA I/A/W 14 CFR FAR 43 APPENDIX D AND BEEH B24R M/M. RAN ENGINE. COMP CHECKS #1 79/80 #2 78/80 #3 79/80 #4 77/80. DRAINED OIL, CHECKED AND CLEANED OIL SCREEN. REPAIRED OIL FILTER W/ NEW CH98110-1 AND SERVICES W/ 8 QTS W80 AGROSELL OIL. MAGNETO TIMING WAS GOOD AND NO ADJUSTMENTS NEEDED. CLEANED FUEL INJECTORS. C/W AD 2002-26-01 BY VISUAL INSPECTION OF FUEL INJECTION LIMBS AND CLAMPS. NO DEFECTS NOTED - DUE AGAIN NEXT 100 HR TIS. LUBED STARTER AND ENGINE CONTROLS, SERVICED, TESTED, AND ROTATED SPARK PLUGS. TIGHTENED ALL OIL RETURN LIME CLAMPS AND NUTS. TIGHTENED ALL VALVE COVER SCREWS. #1 EXHAUST RISER CLAMPS WERE FOUND CRACKED - REPLACED W/ NEW 1/4" 1555014-2 CLAMP... (CONT. NEXT PAGE)		
			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			
2/9/04	TACH:	457261	(CONT)... HALVES AND NEW STAINLESS HARDWARE. ISOLATED AND SECURED LOOSE ENGINE COOLING BAFFLES FROM CONTACTING #2 AND #3 OIL RETURN LINES.		
			RUN-UP WAS GOOD. ALL OPS CHECKS GOOD. NO LEAKS NOTES. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W 100 HR IMP AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND AVAILABLE FOR RETURN TO SERVICE,		
			Darryl L. Amato III AP4520669012A		

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

ENGINE LOG

Serial No. _____

Date	Time		TSMON: 774.25 EMULMR.TOTAL 5806.6Y	<i>Calkins Aero Service Inc.</i> West Houston Airport 18000 Groeschke Rd. Houston, TX 77084 Date: 5-7-04 N 2220L Tach: 4674.9	Signature	License Number
	Hrs	Min				
5/7/04	7	44				
	46	74.9				
				Annual Inspection Performed annual inspection in accordance with 14CFR FAR 43 appendix 'D' and Calkins Aero Service inspection checklist. Compression Test: #1 78/80,#2 76/80,#3 75/80,#4 75/80 CWAD 2002-26-01 Fuel Injection Lines, para a by visual inspection. Drained all sumps, cleaned all filters and screens, changed oil, serviced with 7Qts. Aeroshell 100W, washed ran and leak checked. Checked timing and lubricated prop and controls. Cleaned and gapped spark plugs. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Calkins Aero Service Inc. FAA Certified Repair Station No. GK2R849K signed  WO# 013472		
			Brought Forward			
			Total to Date			

_____ orsement of a
 Certificated mechanic, and his rating and
 Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time	
	Hrs	Min
8/12/04		
TACH		
4773.67		



TSMOH: 873.02 ENGINE TOTAL: 5405.41

ADJUSTMENTS - SERVICE - REMARKS

Calkins Aero Service Inc.

West Houston Airport
18000 Groeschke Rd.
Houston, TX 77084

Date: 08-12-04 N2220L Tach: 4773.67

100 Hour Inspection

Performed 100 Hour inspection in accordance with 14 CFR FAR 43 appendix 'D' and Calkins Aero checklist.

CWAD 2002-26-01 Fuel Injector Lines and Clamps, *by visual inspection.*

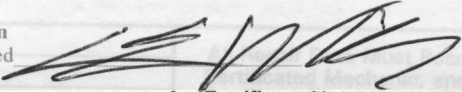
Compression Test:

#1 70/80,#2 70/80,#3 74/80,#4 75/80.

Drained all sumps, cleaned all filters and screens, changed oil, serviced with 7Qts. Aeroshell 100W, washed ran and leak checked. Checked timing and lubricated prop and controls. Cleaned and gapped spark plugs.

I certify that this engine has been inspected in accordance with an 100 Hour Inspection and was determined to be in an airworthy condition.

Calkins Aero Service Inc.

FAA Certified Repair Station
No. GK2R849K signed 
WO# 13732

Total to Date

Certificate Number MUST b

Signature	License Number
10/11/04 TACH	4859.50
REMOVED FAILED ELECTRO -	
SYSTEMS STARTER 9/11 MZ-6222	
9/11 B101026 AND INSTALLED	
ES STARTER 9/11 MZ-4222	
9/11 E083160 I/A/W BECH	
AND LTRIMMS M/M - OPS CHECK	
WAS GOOD AND AIRCRAFT	
AVAILABLE FOR RETURN TO	
SERVICE.	

Dave Hamilton III
AP 452066901A

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
11/2/04	TACH: 4864	60	TSMOH: 963.95 ENGINE TOTAL TIME: 5996.34 ~ PERFORMED 100HR I/PA/W 14 CFR FAR 43 APPENDIX D AND BEECH B24R M/M. COLD COMP CHECK #1 7/80 #2 7/80 #3 7/80 #4 7/80 DRAINED OIL, CHECKED AND CLEANED OIL SCREEN. REPLACED OIL FILTER W/ NEW CH48110-1 AND SERVICED W/ 8 QTS AEROSHELL W100 OIL. CHECKED MAGNETO TIMING AND ADJUSTED R MAG FROM ~23° TO 20° AS PER ENGINE DATA PLATE. CLEANED ALL INTLECTORS AND LUBED STARTER BENDIX DRIVE AND ENGINE CONTROLS. W/ AD 2002-26-01 BY VISUAL INSPECTION OF FUEL INTSELTION LINES AND CLAMPS - NO DEFECTS NOTED - DUE AGAIN NEXT 100 HRS TIS. SERVICED, TESTED AND ROTATED ALL SPARK PLUGS, REPLACED ONE CRACKED PLUG W/ NEW REM38E. INSPECTED INTAKE, EXHAUST, ELECTRICAL AND FUEL SYSTEMS. REPLACED #2 INTAKE ... (CONT NEXT PAGE)		
			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			
11/2/04 I/A/W 7/60	TACH	486	4.60 (CONT)... GASKET w/ NEW P/N 71973, REMOVED EXHAUST SYSTEM DUE TO CRACKS WERE FOUND IN MUFFLER CAN. EXHAUST SYSTEM WAS INSPECTED AND REPAIRED BY FLIGHT VEHICLES AND RETURNS ON THEIR W.O. # 15910, REINSTALLED THIS SYSTEM w/ NEW 77611 GASKETS AND HARDWARE. RUN-UP AND ALL OPS CHECKS WERE GOOD, NO LEAKS NOTED. ~ I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W ANNUAL IMSP AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION AND APPROVES FOR RETURN TO SERVICE.		
			<i>Danny L Amington III</i> AP452066901IA		
11/2/04	TACH	486	4.00 - INSTALLED NEW ELECTRO SYSTEMS ALTERNATOR P/N DOFF 10300SR P/N E093380 DURING PREVIOUSLY STATES ANNUAL INSPECTION. OPS CHECK WAS GOOD AND AIRCRAFT APPROVED FOR RETURN TO SERVICE.		
			<i>Danny L Amington III</i> AP452066901IA		

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
3/25/05	TACH	49	63.93 TSMOH: 1063.28 ENGINE TOTAL TIME: 6095.67 ~ PERFORMED 100 HR Insp		
			I/A/W 14 CFR FAR 43 APPENDIX D AND BEECH B24RM/M. LAMP CHECK #1 77/80		
			#2 78/80 #3 79/80 #4 79/80, DRAINED OIL, CHECKED AND CLEANED OIL SYSTEM.		
			REPLACED OIL FILTER W/MRW CH40110-1 AND SERVICED W/8 QTS WIND ACROSSHELL OIL.		
			CHECKED MAGNETO TIMING - NO ADJUSTMENTS NEEDED. ⁹ /W AD 2002-26-01 BY		
			VISUAL INSPECTION OF FUEL INJECTION LINES AND CLAMPS - NO DEFECTS NOTED -		
			DUE AGAIN NEXT 100 HRS TIS. CLEANED ALL INJECTORS, LUBED STARTER BEHIND		
			DRIVE AND ENGINE CONTROLS, SERVICED, TESTED AND ROTATED ALL SPARK PLUGS.		
			REPLACES AIR INSULATION FILTER W/MRW ⁹ /M BA7305 - DUE AGAIN NEXT 500 HRS		
			TIS OR AS NEEDED. INSPECTS INTAKE, EXHAUST, FUEL ... (CONT NEXT PAGE)		
			Page Total		
			Brought Forward		
			Total to Date		

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			
5/17/05	TACH	5032.58	TSMOH: 1131.93 ENGINE TOTAL TIME: 6164.32 ~ PERFORMED 50 HOUR INSPECTION AS PER BERCH B24R M/M. - RAN ENGINE. DRAINED OIL AND REPLACED OIL FILTER W/ NEW CH48110-1. SERVICED ENGINE W/ 8 QTS AEROSHELL W100 OIL. MAG CHECK WAS GOOD - NO ADJUSTMENTS MADE. CLEANED ALL FUEL INJECTORS. SERVICED AND TESTED ALL SPARK PLUGS. REPLACED TWO SPARK PLUGS W/ NEW REM38E'S DUE TO FAILED PLUGS. ENGINE INTAKE AIR FILTER FOUND W/ SLIGHT DAMAGE FROM AN APPARENT BACKFIRE. REPLACED THIS FILTER W/ NEW BA7305 - DUR AGAIN TACH 5532.58. REPLACED VALVE RELIEF FILTER W/ NEW B3-5-1. REPLACED INSTRUMENT AIR FILTER W/ NEW D9-18-1. INTAKE, EXHAUST, ELECTRICAL AND FUEL SYSTEMS... (CONT NEXT)		
			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		


PAGE

ENGINE LOG

Date **DATE 11/29/2005 TACH: 0 TSMOH: 1169.87**

license
number

CHECKED COMPRESSIONS #1 60, #2 68, #3 73, #4 72. OWNER WAS INFORMED OF LOW CYLINDER READING AND CHOSE TO DEFER THE REPAIR UNTIL A LATER DATE.
REPLACED ALL SPARK PLUGS. REPLACED ALL FOUR CYLINDER DRAIN BACK HOSES.
CHANGED OIL AND FILTER. EXHAUST IS CONTACTING THE BOTTOM COWLING DUE TO THE DETERIORATION OF THE ENGINE MOUNTS. OWNER WAS INFORMED AND CHOSE TO DEFER THE REPAIR TO A LATER DATE.


CHRISTOPHER L. JOHNSON A&P 2680033

12/15/05	TACH: 0001.8	NOTE: THIS AIRCRAFT DID NOT OVERFLY ANNUAL Insp. TSMOH: 1171.67	ENGINE
		TOTAL TIME: 6204.06 ~ PERFORMED 100 HOUR INSPECTION AS PER 14 CFR FAR 43 APP D	
		AND BEECH B24R M/M. COMP CHECK #1 ⁵⁷ / ₈₀ #2 ⁷⁶ / ₈₀ #3 ⁷⁷ / ₈₀ #4 ⁷⁸ / ₈₀ ... (CONT NEXT PAGE)	
		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	

N 2220L #1 PISTON / CYLINDER

OVERHAUL BY GIBSON AVIATION

LOGBOOK 12/15/05 TACH 0001.8

Date	Time		REPAIR
	Hrs	Min	
12/15/05	TACH	0001.8	(COM
			TO GIBSON
			HAULED &
			DRIVE OVE
			SHRLL 100
			TIMING-1
			INJECTION
			#1 FUEL A
			NEW HARDWARE. REINSTALLED EXHAUST SYSTEM W/NEW 77611 GASKETS AND HARDWARE.
			PER OWNER REQUEST - REMOVED AND REPLACED ALL FOUR ENGINE MOUNTS... (CONT NEXT PAGE)
			Page Total
			Brought Forward
			Total to Date

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

Aircraft Cylinder Overhaul Record

Customer: CLIFF HYDE FLYING
 City, State: HOUSTON, TX
 W.O.# 11654 Serial # 85927
 Mfg. Lycoming Model IO-360 AL
W/D

Chromed by ACA
 Serial # _____

Welded by: ECI SAC Other _____
 Serial # _____

Guides Replaced:
 Intake # 66713 STD 5 10 20 30 40
 Exhaust # 75838 STD 5 10 20 30 40

Seats Replaced:
 Intake # — STD 2 5 10 20 30 40
 Exhaust # — STD 2 5 10 20 30 40

Ports Milled Studs Replaced

Remarks: Built with
Serviceable parts
13623
16740
ST

Bore Gage Checked Non-Chrome
 Inspected By: AK
 Date 12/16/05

For Gibson Aviation Use ONLY



SL3601-SC RING SET

FAA-PMA APPROVED FOR INSTALLATION IN
 MILLENNIUM STEEL AND NITRIDE CYLINDER BORES

PISTONS

SL10207	SL75413A	LW13396
LW10208-S	75617	AL10208
LW11487-S	76258	
SL10545	76966-S	
74242	78203-S	
SL75089A	78762	

RINGS-TOP TO BOTTOM

	END GAP	SIDE CLEARANCE
1ea C SL74241A	.045-.055	.0025-.0055L
1ea C SL74241A	.045-.055	.000-.004L
1ea O SL73857A	.015-.030	.002-.004L

*FAA-PMA

CAUTION:
 THESE RINGS ARE NOT TO BE INSTALLED IN
 CYLINDERS WITH CHROME BORES

END GAP AT TOP OF TRAVEL SHOULD NOT BE LESS
 THAN .0075

TACT 1.8 12/15/05
GIBSON - AVIATION



"THE NAME TO REMEMBER FOR ENGINE
PARTS AND SERVICE"

N2220L #1 P15/CYL ASSY

1821 W. Elm
P.O. Box 880
El Reno, OK 73036
Phone (405) 262-4880

Certified Repair
Station AV2R704K

Customer Cliff Hyde Thyrng SCAR W.O.# 11654

Component Cylinder Mfg. Lycoming

Part # 10-360 AU W/D Serial # _____

Remarks: Guides & Seats Replaced as Necessary - Built
with SCAR PARTS


Overhauled By OJC Date 12-7-05

Serviceable

MAINTENANCE RELEASE

The Aircraft Engine Component listed has been repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for Return to Service. Pertinent information is on file at this agency as required.

Date 12-7-05

Signed  (Authorized Signature)

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
12/15/05	TACH	0000	1.8 (CONT.)... PER OWNER REQUEST - REMOVED #1 PISTON/CYLINDER ASSEMBLY AND SHIPPED TO GIBSON AVIATION P.O. BOX 880 EL RENO, OK FOR EVALUATION AND REPAIRS. RETURNS OVER-HAULED ON GIBSON W/O, #11654. REINSTALLED THIS ASSEMBLY AS PER LYCOMING DIRECT DRIVE OVERHAUL MANUAL P/N 60294-7. DRAINED OIL AND SERVICED ENGINE W/ 8 QTS AGRO-SHELL 100 MINERAL OIL. SERVICED AND TESTED ALL SPARK PLUGS. CHECKED MAGNETO TIMING - NO ADJUSTMENTS NEEDED. YWAD 2002-26-01 BY VISUAL INSPECTION OF FUEL INJECTION LINES AND CLAMPS - NO DEFECTS NOTED. DUE AGAIN C TACH 101.8. REINSTALLED #1 FUEL AND OIL RETURN LINES, INTAKE W/ NEW GASKET AND HARDWARE, AND BAFFLES W/ NEW HARDWARE. REINSTALLED EXHAUST SYSTEM W/ NEW 77611 GASKETS AND HARDWARE. PER OWNER REQUEST - REMOVED AND REPLACED ALL FOUR ENGINE LORO MOUNTS... (CONT NEXT PAGE)		
			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			
12/15/05	TACH	0001.8	(CONT.)... AS PER BEECH B24R IPL, INSTALLED MOTOR MOUNT KITS J1077B-14 AND AS REQUIRED. REMAINDER OF INTAKE, EXHAUST, FUEL AND OIL SYSTEMS CHECKED GOOD. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Dwight L. Chington III AP452066901 IA		

Page Total
Brought Forward
Total to Date

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			
11-13-06			Tack #4 5100H 1238 hours. Rtd ENGINE For opperational check. Compressions #1 78 #3 79 #2 76 #4 79. checked Plugs & Retard. checked Mag. Tronic. Changed Oil Aero Shell 100, installed New Filter & New Air Filter Assenbly. ENGINE		
			Inspected in accordance with a <u>ANNUAL</u> in- spection and was determined to be in airworthy condition.		
			Tack <u>2544</u> Hours <u>5100H</u> <u>1213</u> Hours <u>5100H</u>		
			Page Total Brought Forward Total to Date		

All Repair Data Must Bear the Endorsement of a
 Certificated Mechanic, and his Rating and
 Certificate Number MUST be Shown. AE1686515TA

ENGINE LOG

Serial No. L-5220-51A

Reg: N2220L
Make: Lycoming
Model: IO360-A1B6
Ser. No. L-5220-51A

ENGINE LOG
Southern Cal Aircraft
1880 Joe Crosson Drive
El Cajon, Ca. 92020
619-448-5010

Date: 09-10-2007
Tach: 109.3
TSMOH : 1321.86
Hobbs: 3900.3

I certify that this ENGINE has been inspected in accordance with 100 HOUR Inspection procedure and determined airworthy this date.

Changed oil and filter, old filter was cut open for inspection, no metal noted. Spark plugs cleaned, gapped and inspected replaced 2 with new, re-installed and torqued. All fuel injector nozzles were removed, cleaned and inspected. Injector lines were inspected IAW AD 2002-26-01. Replaced alternator belt, with prop removed, engine crankcase seal replaced with new (LW-13792). Installed propeller with new O'ring. Resealed oil pressure line at firewall. Engine serviced with Aero Shell W100 (50 wt. Det.)

AD 2006-06-16 Crankshaft Failure, N/A By engine S/N IAW Lycoming SB 566, table 1. Nothing Follows
AD 2006-20-09 Crankshaft Failure, Applies, However Due at eng ovhl or Feb. 21,2009 whichever is first Nothing Follows

Except as stated above, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Edward Q Hazlewood
A&P 1655569
Insp. Auth.



Date: 09-10-2007

Total to Date

Certificate Number MUST be Shown.

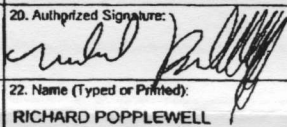
D.

PAGE 02

AIRCRAFT ACCESSORIES

19188353681

18/16/2007 16:52

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG					3. Form Tracking Number: AA100907	
4. Organization Name and Address: AIRCRAFT ACCESSORIES OF OKLAHOMA INC. 2740 North Sheridan Tulsa, OK 74115					5. Work order/Contract/Invoice Number: 29868			
6. Item:	7. Description:	8. Part number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status / Work:		
1	RSA-5AD1 FUEL SERVO	2524054-11	N/A	1	36993	REPAIRED		
13. Remarks: THE PART IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH FAA APPROVED DATA. THERE ARE NO APPLICABLE AIR WORTHINESS DIRECTIVES. WORK ORDER 29868 SHOWING THE ACTUAL WORK PERFORMED IS ON FILE AT THIS FACILITY.								
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulations specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
15. Authorized Signature		16. Approval Authorization No:		20. Authorized Signature: 		21. Approval Certificate Number: RV3R829L		
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): RICHARD POPPLEWELL		23. Date: October 9, 2007		
User/Installer Responsibilities								
It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer insures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.								

D.

N2220L

POWERPLANT

Date : 10-15-2007

Make: Lycoming

Southern Cal Aircraft

Tach : 110.3

Model: 0360-A1B6

1880 Joe Crosson Dr.

TSMOH: 1322.86

Ser. No: L-5220-51A

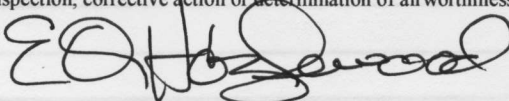
El Cajon, Ca. 92020

Hobbs: 3902.3

619-448-5010

Trouble shot engine idle problem. Removed fuel injection servo (RSA5AD1) Replaced throttle body and mixture control o'rings, lapped plugs. Assembled unit and still had problem. Removed servo and sent to Aircraft Accessories in Tulsa OK. Unit returned after repair and installed. Engine ran good at idle, idle mixture was adjusted and ops cked good. Except as stated above, no other work, inspection, corrective action or determination of airworthiness was made at this time.

Edward Q Hazlewood



A&P 1655569

Insp. Auth.

Date: 10-15-2007