ULTIMATE ENGINES

by

CAPEHART INDUSTRIES, INC.

C.R.S. YCTR973K
MENA, ARKANSAS 71953
501-394-5422

The Standard

ENGINE LOG

Engine Record General Information

Manufacturer Teledyne-Continental **Model** IO-520-BB

Serial 285651-R **Type Certificate** _____

This engine is currently installed in aircraft: _____

Minimum Octane Fuel _____ **Oil Grade** Summer _____ Winter _____

Magneto Time _____ **Point Setting** _____ **Firing Order** _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ **hours**

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ULTIMATE ENGINES, INC.

MENA, ARKANSAS 501/394-5422

CRS# YCTR973K

Date: September 10, 1997 **Tach:** 3704.7 **W/O#:** 97236
Time Since Overhaul: 0000.0 **Engine TT:** 707.6
Engine Data: TCM IO-520-BB, s/n 285651-R

Major overhaul to new limits and specifications Teledyne-Continental engine model IO-520-BB, s/n 285651-R, in accordance with Teledyne-Continental overhaul manual #X30039A, Teledyne-Continental parts catalog #X30040A and in accordance with FAA Advisory Circular 43.12a and FAR 43.2. Engine ground run, tested and approved for return to service.

COMPONENTS

Crankshaft - p/n 649898, s/n E309712N, mfg. TCM – new.
Connecting Rods (6) - p/n IO-520, s/n S90716-2, mfg. TCM - inspected, magnafluxed, resized, rebushed, and certified by Aircraft Specialties Services, Inc., of Tulsa, OK, w/o# 90716, FAA CRS# DD2R764K.

Camshaft - p/n 1058-1SL, s/n A97043, mfg. Ram Aircraft of Waco, TX, FAA PMA complies with DWG. 1058 Rev. Q. w/o PP0340.
Internal Steel (8) - p/n IO-520, s/n S90716-4, mfg. TCM - inspected, magnafluxed, and certified by Aircraft Specialties Services, Inc., of Tulsa, OK, w/o# 90716, FAA CRS# DD2R764K.
Crankcase - p/n IO-520, s/n D299208RPL, mfg. TCM - inspected, zygloes, repaired, surfaced, align-bored, stress relieved, dowels installed, and certified, by Divco, Inc., of Tulsa, OK, w/o# 63917, FAA CRS# DB2R762K.
Cylinders (6) - s/n 1595, 1596, 1597, 1598, 1599, 1600, mfg. Superior - new, all new parts installed and certified by Ultimate Engines, Inc., of Mena, AR, w/o 97236, FAA CRS# YCTR973K.
Turbocharger – p/n 406610-9029, s/n SHRO284, mfg. Airesearch - inspected, rebuilt and tested and certified by Main Turbo Systems, Inc. of Visalia, CA, w/o 17435, FAA CRS# MAMR190K.
Controller - p/n 470688-5, s/n 01997, mfg. Airesearch - inspected, rebuilt and tested and certified by Main Turbo Systems, Inc. of Visalia, CA, w/o 17436, FAA CRS# MAMR190K.
Valve – p/n 470930-9001, s/n CAR0123, mfg. Airesearch - inspected, rebuilt and tested and certified by Main Turbo Systems, Inc. of Visalia, CA, w/o 17437, FAA CRS# MAMR190K.

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ACCESSORIES

Alternator - p/n 1100715, s/n A65445, mfg. TCM - inspected, rebuilt, tested, and certified by Aero Electric of Wichita, KS, w/o A-142119, FAA CRS# NV2R045L.

Starter - p/n 646238-2, s/n C039286/A124099, mfg. TCM - inspected, rebuilt, tested, and certified by Aero Electric of Wichita, KS, w/o A-142095, FAA CRS# NV2R045L.

Starter Adapter - p/n 642085, s/n 97236, mfg. TCM - inspected, rebuilt, tested, and certified by Ultimate Engines, Inc., of Mena, AR, w/o 97236, FAA CRS# YCTR973K.

Magneto (RH) - p/n 10-163060-1, s/n D239202ER, mfg. Bendix - inspected, rebuilt, tested, and certified by Ultimate Engines, Inc., of Mena, AR, w/o 97236, FAA CRS# YCTR973K.

Magneto (LH) - p/n 10-163020-3, s/n K219102E, mfg. Bendix - inspected, rebuilt, tested, and certified by Ultimate Engines, Inc., of Mena, AR, w/o 97236, FAA CRS# YCTR973K.

Fuel Pump - p/n 632818-11, s/n H038302RB, mfg. TCM - inspected, rebuilt, tested and certified by Aircraft Accessories of Oklahoma, Inc., of Tulsa, OK, w/o N6146, FAA CRS# RV3R829L.

Thr-Body/Controller - p/n 629904-2, s/n D139221AR, mfg. TCM - inspected, rebuilt, tested and certified by Aircraft Accessories of Oklahoma, Inc., of Tulsa, OK, w/o N6146, FAA CRS# RV3R829L.

Manifold - p/n 631427-2A10, s/n E019206CR, mfg. TCM - inspected, rebuilt, tested and certified by Aircraft Accessories of Oklahoma, Inc., of Tulsa, OK, w/o N6146, FAA CRS# RV3R829L.
turboGAMIjectors – installed General Aviation Modifications, Inc., GAMIjectors Kit No. GT15-B, s/n 2733, STC # SE09289SC, PMA # PQ821SW per GAMIjector Installation Procedure # IP-97-002 (Rev. 002) dated February 6, 1997. No change in weight and balance.

STC'S AND ULTIMATE ENGINES PROCESSES

Crankshaft Assembly and Connecting Rods(6)- balanced crankshaft and connecting rods in accordance with Ultimate Engines Process Specification #914067-3.
Crankcase Dowels (8) and "0" Rings (8)- installed new crankcase alignment dowels and "0" rings in accordance with Ultimate Engines Process Specification #914067-2.
Venturi Intake Valve Seat (6)- installed new venturi intake valve seats in accordance with Ultimate Engines Process Specification #914067-5.
Cylinder Flow Balancing (6)- balanced in accordance with Ultimate Engines Process Specification #914067-6.

Stainless Steel Valve Cover Screws (48)- installed new stainless steel socket head valve cover screws in accordance with Ultimate Engines Process Specification #914068-B.

Fuel Injection Line Clamps (6)- installed new cushioned Adel fuel injection line support clamps in accordance with Ultimate Engines Process Specification #914068-A.

Rocker Arms - mfg. TCM - inspected, magnafluxed, and modified by installation of needle bearing kit p/n PE118 by Ultimate Engines, Inc., of Mena, AR, in accordance with Ultimate Engines Process Specification #914072 and installed by Ultimate Engines, Inc., of Mena, AR, w/o 97236, FAA CRS# YCTR973K.

OTHER SERVICES PERFORMED

Attaching Hardware - Hardware cleaned, bright cadmium plated class 33, Type II and baked 375 degrees Fahrenheit for three hours by United Plating Works of Tulsa, OK, w/o 89778 FAA CRS# FA2R813K.

Engine Protective Coating - crankcase assembly and valve covers (6) have applied a protective coating by Sherwin Williams, acrylyd plus polyurethane burgundy #37-33074-Y.

Engine Pre-Heater - E-Z Heat engine pre-heater by E-Z heat of Chetek, WI, is thermostatically controlled, cycles at 165 degrees Fahrenheit, oil heated in one hour, complete engine in four hours.

Tailpipe – p/n FT-138.5-1-110, s/n AWI17441. Overhauled and inspected by Aerospace Welding Minneapolis, Inc. of Burnsville, MN, w/o 17441, FAA CRS# UWDR792L.

NEW ENGINE PARTS INSTALLED

Superior New IO-520-BB cylinder assemblies, major overhaul gasket/seal kit, starter adapter pilot roller brg, crank seal retaining plates, seal plate attaching bolts, crankshaft oil seal and spring assy, crankshaft dampner bushings, counterweight pin retaining plates, counterweight pin retaining rings, 6th order counterweight pins, 5th order counterweight pins, 4th order counterweight pins, main bearing and thrust washer set, connecting rod bushings, connecting rod bolts, connecting rod nuts, connecting rod bearings, RAM camshaft, camshaft gear attaching screws, camshaft gear woodruff key, TCM hydraulic valve lifter assemblies, pistons, top compression rings, 2nd compression rings, oil control rings, scraper rings, piston pins, 12-point cylinder base nuts, silicone push rod seal kits, silicone valve cover gaskets, intake valve guides, exhaust valve guides, intake valve seats, exhaust valve seats, Rosan exhaust studs, inner valve springs, outer valve springs, exhaust and intake valve keepers, exhaust roto-coils, exhaust valves, intake valves, exhaust nuts, stainless steel socket-head screws, Ultimate Engines rocker arms, self-locking heli-

coils, rocker shaft retaining bolts, rocker shaft retaining washers, magnetos cushion retainers, ignition harness, iridium spark plugs, oil pressure relief valve kit, oil pressure relief spring, induction hose clamps, silicone induction hoses, crankcase dowel "O" rings, induction seals, engine oil sump felts, Magneto drive coupling bushings, crankcase alignment dowels, EZ Heat engine pre-heater, counterweight torsional damper bushings, oil transfer collar assy, oil transfer collar "O" ring, fuel pump drive shaft (A.D. note).

Note #1 - use PHILLIPS 20w50 X/C oil for break-in period and when oil consumption stabilizes. Every 25-hour oil changes are highly recommended.

Note #2 – GAMIjectors fuel nozzles are flow matched to each individual cylinder, return to their original position if removed for cleaning.

Note #3 - spark plugs are fine-wire iridium Champion p/n RHB32S - careful cleaning, gapping, and rotation will ensure the expected extended life and performance of these high performance spark plugs.

Note #4 - see back of engine logbook for list of A.D.'s.

Note #5 - engine warranty voided, if automobile fuel used.

Note #6 - TCM SID 97-2, Fuel System Set-up and Procedures, must be accomplished annually to ensure maximum serviceably to your engine.

Engine run in test cell and approved for return to service. Engine to be installed in aircraft at a later date. Note: minor adjustment may have to be made to engine after installation in aircraft.

PETER J. LO BELLO

ULTIMATE ENGINES, INC.
P.O. Box 807
Mena, Arkansas 71953
501-394-5422

CERTIFIED REPAIR STATION
YCTR 973 K

The aircraft engine or appliance identified above was 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 Work Order No.: 97236

Date: 9-10-97

Signed:

ULTIMATE ENGINES, INC.
C.R.S. #YCTR973K

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
10-12-97	TACH 37047	SMOH 0.0		Installed Engine With New Lord Mounts. Serviced With Philips 20W50 XC Oil. Ran And Checked For Proper Operation And Leaks.
				Date 10-12-97 Tach. Time 37047 "I certify that this Engine has been inspected in accordance with a 100Hr/Annual inspection and was determined to be in airworthy condition" DALE R. FAULKNER Dale R Faulkner A&P 1993252IA
11-11-97	3727.50			On this date: the following was Accomplished
				1. Drained oil, Replaced CH48109 Filter. Inspected oil Filter for Metal, none noted. Serviced with phillips 20W50 x/c oil, Leak ck. OK.
				2. Removed RT. MAGNETO $6RN-205 s/N 239202ER and Installed Overhauled MAGNETO $6RN-205 s/N 6469732 (See Yellow TAG). Billy L Bilbo AP7354303GIA ULTIMATE ENGINES INC.

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
11-4-98	TACH 3897			Completed Inspection. Cleaned Capped And Tested Sparkplugs. Checked Mag Timing. Insp. Turbo And Exhaust System. Washed Down Engine Ran And Checked For Leaks And Proper Operation. Date 11-4-98 Tach. Time 3897 "I certify that this Engine has been inspected in accordance with a 100Hr/Annual inspection and was determined to be in airworthy condition" DALE R. FAULKNER A&P 1993252IA Dale R Faulkner
11-15-99	TACH	4031.17	TSMMOH 326.47	AT THIS TIME THIS ENGINE WAS INSP USING A 100 HR ANNUAL CK LIST. NO OIL WAS CHANGED AT THIS TIME. SEE ACFT LOG BOOK DATE MAY 14, 1999. REPLACE MAIN FUEL LINE FROM FIREWALL TO PUMP. ADS CK THRU 99-09-17 SEE ACFT RECORDS FOR NEW LIST. NEXT PAGE →

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DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
	CYL COMP			Date 11-15-99 WO 2699 A/C N5220T S/N D-8441
	1 2 3 4 5 6 ~~7~~ ~~8~~			I certify that this ENGINE has been
	76 77 76 77 77 76			inspected in accordance with a ANNUAL
	~~80~~ 80 ~~80~~ 80 ~~80~~ 80 ~~80~~ ~~80~~			inspection and was determined to be in
				airworthy condition.
				Inspector 3075831651A
12/09/00	TACH 4201.52		TSMOH 496.82	
	AT THIS TIME THIS ENG WAS INSP CISING A 100 hr/ANNUAL			
	CK LIST. O/C WAS DRAINED FILTER REMOVED + REPLACED.			
	CT MAG REMOVED & RESEALED. REINSTALLED MAG; SERVICED			
	ENG WITH 1 QT 20/50 PHILLIPS X/C WASH ENG RUN CK FOR LEAKS			
	NONE NOTED. AD's CK THRU PL 2000-08-51 SEE ACFT			
	RECORDS FOR NEW AD LIST. INSTALLED 12 RHB32E			
	SPARK PLUGS			NEXT PAGE

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
	CYL COMP			Date 12/19/00 WO 2946 A/C N2702T S N D-8447
	1 2 3 4 5 6		7 8	I certify that this ENGINE has been
	78 78 76 73 77 68		X X	inspected in accordance with a ANNUAL
	80 80 80 80 80 80		80 80	inspection and was determined to be in
				airworthy condition.
				Inspector 3075831165 IA

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BLADE SER. NO.
BLADE DWG. NO.

ription of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

19___ TIME		SERVICE	

LONE STAR AERCRAFT SERVICE
206 FLIGHTLINE ROAD
LAGO VISTA, TEXAS 78645
(512) 267-4686 (512) 267-1712 FAX

May 8,2001 N2720T Beechcraft S/N: D8441 TACH:4263.4
CONTINENTAL IO-520-BB S/N 285651-R

Removed Woodward Prop Governor, Model Number C210452, S/N 2345050T. Sent to Jordan Propeller Service, Inc. for overhaul. Installed same unit, test ran and test flew. Ops checked ok. Yellow tag attached. ——end——

Carl B. Vernon

CARL B. VERNON
564255812AP

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DATE 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspec Entries must be endorsed Technician or Repair Facility

SERVICEABLE

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Agency Regulations and was found airworthy for return to

UTIMATE ENGINES, INC.
Mena, Arkansas 71953 501/394-5422
C.R.S.# YCTR973K

Date: June 13, 2001 **Tach: 4286.99** **W/O#: 21524**
Engine Total Time: 1289.89 **Engine Time Since Major Overhaul: 582.29**
Engine Data: IO-520-BB, S/N: 285651-R

On this date the following was accomplished:

1 Removed both magnetos models S6RN-201& 205, 10-163020-3, 10-163060-1, and serial numbers 646987, 646973R and installed magnetos models S6RN-1225, 10-349350-4 & -5, serial numbers K179420FR, & K109401FR.

2 Installed new Skytronics ignition harness C16-4BS-II.

3 Operational and leak checks good.

Peter J. LoBello PETER J. LO BELLO, AP73543036IA

CERTIFIED REPAIR STATION
YCTR 973 K

TIME	SERVICE	Technician or Repair Facility: (See back pages for other specific entries)

Report Produced By at Ultimate Engines Address 106 Elk Drive Mena AR 71953 Phone 501-394-5422

Airworthiness Directive Compliance Record

File ID **WICKHAM MAGS**

SARL Research Date: 06/29/2001

AD Number / Effective date	Description	Complied Date Time	Status Method of Compliance/Applicability	Once or Recur	Next Due Date Time	1. Facility 3. Cert. Num. 2. Cert. Type 4. Author. by
Manufacturer	**Appliance Category**	**Model**				**Part #:** 10-349350-4, 10-349350-5
lendix Corporation	Magnetos	S-1200 SERIES				**Serial #:** K179420FR, K109401FR
94-06-09 05/20/1994 ©ATP	To Prevent Injury Or Death To Ground Personnel Due To A Non-Grounded Magneto ©ATP	06/13/01	Inspected and found correct number capacitors installed in both magnetos.	Once ©ATP	Signature	1 Ultimate Engines 2 Repair Station 3 YCTR973K 4 Sam Bass
96-12-07 07/18/1996 ©ATP	To Prevent Magneto Failure And Subsequent Engine Failure ©ATP	06/13/01	Installed new impluse couplings.	Recur ©ATP	1789.89 ETT or 4786.99 Tach time Signature:	1 Ultimate Engines 2 Repair Station 3 YCTR973K 4 Sam Bass
				∩	Signature:	1 Ultimate Engines 2 Repair Station 3 YCTR973K 4 Sam Bass
					Signature	1 Ultimate Engines 2 Repair Station 3 YCTR973K 4 Sam Bass
					Signature	1 Ultimate Engines 2 Repair Station 3 YCTR973K 4 Sam Bass

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DATE	RECORDING TACH	TODAYS FLIGHT	TOTAL TIME IN	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of
19				

Report Produced By: at Ultimate Engines Address: 106 Elk Drive Mena AR 71953 Phone: 501-394-5422

Airworthiness Directive Compliance Record

File ID: WICKHAM MAGS

USARL Research Date: 06/29/2001

AD Number Revision Date	Description	Complied Date Time	Status Method of Compliance/Applicability	Once or Recur	Next Due Date Time	1. Facility 3. Cert. Num. 2. Cert. Type 4. Author. by
Manufacturer	**Appliance Category**	**Model**				**Part #:** 10-349350-4, 10-349350-5
Bendix Corporation	Magnetos	S-1200 SERIES				**Serial #:** K179420FR, K109401FR
73-07-04 10/11/1973 ©ATP	Superseded by 94-01-03 ©ATP	06/13/01	Superseded	Once ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature:
74-26-09 12/24/1974 ©ATP	S-20,-200,-1200 Series Magnetos ©ATP	06/13/01	NA per magneto model and part numbers.	Once ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature:
78-09-07 R3 01/17/1983 ©ATP	Superseded by 96-12-07 ©ATP	06/13/01	Superseded	Recur ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature:
82-13-01 06/28/1982 ©ATP	Magneto And Engine Malfunction ©ATP	06/13/01	NA per magneto serial numbers.	Recur ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature:
82-20-01 06/14/1983 ©ATP	To Prevent Failure Of Impulse Coupling Due To Improperly Heat Treated (Soft) F ©ATP	06/13/01	NA- installed new impluse couplings in both magnetos.	Once ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature
94-01-03 R2 06/28/1995 ©ATP	To Prevent Magneto Failure And Subsequent Engine Failure ©ATP	06/13/01	NA per magneto's serial numbers	Once ©ATP		1. Ultimate Engines 2. Repair Station 3. YCTR973K 4. Sam Bass Signature

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
01/15/02	TACH 4359.71		TTE 1362.61	TSMOH 655.01

AT THIS TIME THIS ENGINE WAS INSP USING A 100HR/ANNUAL CK LIST. OIL WAS DRAINED FILTER REMOVED & REPLACED OIL SAMPLE TAKEN. SERVICED WITH 11QT PHILLIPS 20/50 X C WASH ENGINE. RUN CK FOR LEAKS NONE NOTED. C/W AD'S. SEE ACFT RECORDS FOR NEW AD LIST.

CYL COMP

1	2	3	4	5	6	7	8
77	75	77	72	77	63		
80	80	80	80	80	80	80	80

Date 01/15/02 Tach. Time 4359.71
"I certify that this ENGINE has been inspected in accordance with a ANNUAL inspection and was determined to be in airworthy condition"
JERRY J. STANTON
A&P 307583165IA

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DATE 19 ____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
2-6-03	Tach 4471.4		SMOH 766.7	Completed Inspection. Checked Compression #1-77 #2-76 #3-73 #4-72 #5-77 #6-75/80 Cleaned Fuel Screens And Injector Nozzles. Reinstalled Nozzles With New Orings And Seals. Cleaned Gapped And Tested Spark Plugs. Checked Magneto Timing. Replaced Induction Air Filter Element. Washed Down Engine. Ran And Checked For Leaks And Proper Operation.

Date 2-6-03 Tach. Time 4471.4
"I certify that this Engine has been inspected in accordance with a 100Hr/Annual inspection and was determined to be in airworthy condition"
DALE R. FAULKNER
A&P 1993252IA
Dale R Faulkner

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
				5-30-03 TACH 4505 N 2720T ENGINE
				Replace crankshaft nose seal + prop
				O-ring seal. Jason Hoffer

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

ULTIMATE ENGINES LLC.
MENA ARKANSAS 71953 479-394-5422
C.R.S. #YCTR973K

August 2, 2004 **Tach: 2457.07** **W/O: 24505**
Engine Time Since Major Overhaul: 899.42
Engine Data: IO-520-BB, S/N: 285651-R,
Aircraft Data: P-35, S/N: D-7148, N9763Y **TTAF: 3306.77**
On this day the following was performed:

1. Removed this engine from V-35, S/N: D-8114, N2720T. Removed turbo from engine and installed in aircraft Beechcraft P-35, S/N: D-7148, N9763Y.
2. Removed and installed overhauled fuel system by Aircraft Accessories of OK. Pump P/N: 64621-16, S/N: C057915B, Throttle Body P/N: 629904-2, S/N: K057902A, Manifold P/N: 631427-2A3M, S/N: K057946C. W/O: 12197, CRS: RV3R829L.
3. Removed and installed overhauled prop governor by Aircraft Accessories of OK. P/N: C210452, S/N: 1043006, W/O: 13969.
4. Removed and installed 2 overhauled stacks by Wall Colmonoy Corp. of OK. P/N: 35-9016-1SR & 35-9016-3SR, S/N: IAJ82 & IAJ83. W/O: IAJ82 & IAJ83. Repair Station #BG2R715K.
5. Removed 6 TACM fuel nozzles and installed General Aviation Modifications, Inc. GAMIjectors Kit # GAD13AA, S/N: 12760, Per STC #SE09217SC
6. Performed annual inspection on engine. Complied with inspection per Beechcraft Inspection Guidelines and all applicable FAR's. All applicable AD's were researched.
7. Performed oil change. Drained all existing oil and serviced with 11 quartz of Phillips X/C 20W50. Install Champion oil filter P/N: CH48109.
8. Removed and installed overhauled starter adapter by Ultimate Engines LLC. P/N: 642087A11.

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DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
				I certify that this engine has been inspected in accordance with an Annual Inspection as per the Beechcraft inspection guidelines and far part 43 guidelines. All applicable A.D.'s thru ATP Revision 2004- 14P were checked for applicability and compliance and is approved for return to service.
				Ultimate Engines LLC. CRS#YCTR973K

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility (See back page ...

ULTIMATE ENGINES, LLC.

Mena, Arkansas 71953 479/394-5422

C.R.S.# YCTR973K

Date: November 15, 2004 **Tach: 2460.22** **W/O#: 24131**

Engine Time Since Major Overhaul: 0.00

Engine Data: IO-520-BB, S/N: 285651-R

Aircraft Data: P-35, S/N: D-7148, N9763Y **TTAF: 3304.24**

Performed major overhaul to new limits and specifications on Teledyne -Continental engine model IO-520-BB, s/n: 285651-R, in accordance with Teledyne-Continental overhaul manual #: X30039A, Teledyne-Continental parts catalog #: X30040A and in accordance with FAA advisory Circular 43.12a and FAR 43.2. Engine ground run, tested and approved for return to service.

COMPONENTS

Crankshaft – *P/N: IO-520, S/N: S141293-1 – Magna-fluxed, inspected, rods STD. Polished, renitrided cad plate, baked flange. Re-bushed Cwt blades, Ultrasonic insp. I/A/W TCM MSB 96-10. Inspection / Repairs by Aircraft Specialties, Inc. of Tulsa, OK, FAA CRS DD2R764K. W/O: 141293.*

Connecting Rods (6) *–IO-520, serial number S125260-1, 6 each Magna-fluxed and inspected in acc. with overhaul manual by Aircraft Specialties, Inc. of Tulsa, OK, FAA CRS DD2R764K, WO# 125260.*

Camshaft *–P/N: 1058-1A, S/N: S141297-1.Reconditioned & repaired in accordance with Aircraft Specialties F.A.A approved data & procedures. CRS# DD2R764K. W/O: 141297.*

Crankcase *– P/N IO-520, S/N: D299208RPL. Repaired in accordance with the FAA approved processes for the following: welding, machining, lapping, align boring, and inspection, by DIVCO, Inc. of Tulsa, OK FAA CRS DB2R762K, WDC 75866.*

Internal Steel (15), Counterweights *-Magnafluxed IAW overhaul manual by Aircraft Specialties, CRS DD2R764K, WO 141299.*

Cylinders (6) *– S/N1595, 1596, 1597, 1598, 1599 & 1600, mfg. Superior, flow balanced, ground and lapped valves and valve seats, honed cyl., bead blasted & alodined, gapped rings, leak checked and certified by Ultimate Engines, LLC., of Mena, AR, w/o: 24131, FAA CRS# YCTR973K.*

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
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ACCESSORIES

Alternator - P/N:1100715 S/N: A123787, Overhualed by Aircraft Accessories of OK. CRS#RV3R829L. W/O: 15216.
Fuel System Overhauled by Aircraft Accessories of OK. Pump P/N: 646212-16, S/N:K057915B, W/O: 15040.
Starter – P/N: 646238-2, S/N: A124099. Inspected by Ultimate Engines, LLC. W/O: 24131.
Starter Adapter –, P/N: 642087A11, mfg. TCM. Overhauled and certified by Ultimate Engines, LLC. FAA CRS YCTR973K, W/O: 24131.
Oil Cooler – Inspected & flushed by Ultimate Engines, LLC. W/O: 24129
Harness – P/N: C16-4BS-II, s/n: NSN, – overhauled and tested by Skytronics, Inc. CRS# AE3R368L, W/O#8225.
Magneto (LH)–P/N:10-349350-4, S/N:K109401FR. Overhauled by Ultimate Engines LLC of Mena, AR. W/O: 24131.
Magneto (RH)–P/N:10-349350-5, S/N:K179420FR. Overhauled by Ultimate Engines LLC of Mena, AR. W/O: 24131.
Prop Governor – P/N:C210452, S/N: 1043006. Overhauled by Aircraft Accessories. W/O: 15046.
Vacuum Pump – P/N: G455, S/N: 15022. Bench tested by Aircraft Accessories of OK. CRS#RV3R829L. W/O: 15278.
Alternator Clutch – P/N: 646655A1. MFG TCM. W/O: P72445.

STC'S AND ULTIMATE ENGINES PROCESSES

Crankshaft Assembly and Connecting Rods (6)- balanced crankshaft and connecting rods in accordance with Ultimate Engines Process Specification #914067-3.
Crankcase Dowels (8) and "0" Rings (8)- installed new crankcase alignment dowels and "0" rings in accordance with Ultimate Engines Process Specification #914067-2.
Cylinder Flow Balancing (6)- balanced in accordance with Ultimate Engines Process Specification #914067-6.
Stainless Steel Valve Cover Screws (48)- installed new stainless steel socket head valve cover screws in accordance with Ultimate Engines Process Specification #914068-B.
Fuel Injection Line Clamps (6)- installed new cushioned Adel fuel injection line support clamps in accordance with Ultimate Engines Process Specification #914068-A.
Rocker Arms - Inspected, magnafluxed, and modified by installation of needle bearing kit in accordance with Ultimate engines, STC #SE09637SC.

OTHER SERVICES PERFORMED

Engine Protective Coating - crankcase assembly and valve covers (6) have a protective coating applied made by Sherwin Williams, acrylyc plus polyurethane Ming Blue.

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

NEW PARTS INSTALLED

Major overhaul gasket/seal kit, starter adapter pilot roller brg, crank seal retaining plates, seal plate attaching bolts, crankshaft oil seal and spring assy, crankshaft dampner bushings, counterweight pin retaining plates, counterweight pin retaining rings, 6th order counterweight pins, 5th order counterweight pins, 4th order counterweight pins, main bearing and thrust washer set, connecting rod bolts, connecting rod nuts, connecting rod bearings, camshaft gear attaching screws, camshaft gear woodruff key, hydraulic valve lifter assemblies, top compression rings, 2nd compression rings, oil control rings, scraper rings, piston pins, 12-point cylinder base nuts, silicone push rod seal kits, silicone valve cover gaskets, stainless steel socket-head screws, self-locking heli-coils, rocker shaft retaining bolts, rocker shaft retaining washers, magnetos cushion retainers, ignition harness, oil pressure relief valve kit, and oil pressure relief spring. Induction hose clamps, silicone induction hoses, crankcase dowel "O" rings, induction seals, engine oil sump felts, Magneto drive coupling bushings, crankcase alignment dowels, counterweight torsional damper bushings, oil transfer collar assy, and oil transfer collar "O" ring, fuel pump drive shaft (A.D. note).

Note #1 - use PHILLIPS 20w50 X/C oil for break-in period and when oil consumption stabilizes. Every 25-hour oil changes are highly recommended.

Note #2 – Must comply with **Service Bulletin 94-3**. If not complied could void all warranty.

Note #3 - see back of engine logbook for list of A.D.'s.

Note #4 - engine warranty voided, if automobile fuel used.

Note #5 – TCM SID 97-3, Fuel System Set-up and Procedures, must be accomplished annually to ensure maximum serviceably to your engine.

Michael D Rogers Ultimate Engines, LLC. CRS# YCTR973K

1991 ASA

DATE 2005 ~~10~~	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
9 Aug 05				Compression Checked #1-76/80
TACH	2478.94			#2-77/80 #3-73/80 #4-75/80 #5-79/80 #6-78/80
				Cleaned Spark Plugs,
				Changed O.C & F. Lten, Serviced
				with Phillips XC

Shiloh Aviation Center Inc.

Phone (505)861-1326
Fax (505)864-2174
P.O. Box 519
Los Lunas, NM 87031
USA

June 13, 2007, Tach: 2522.4, Engine T.S.M.O.H.: 0062.18; Annual Inspection Completed using Beechcraft Form 98 - 32227H and Part 43 Appendix D as a guide. Drained oil and changed oil filter using 11 quarts Phillips **X/C Oil and CH48109-1 Oil Filter. Cleaned, gapped, and rotated Spark Plugs. Compression Test** was performed **and proved all cylinders to be in satisfactory condition at** 72/80 **or better at this time and date. Changed Vernatherm Crush Gasket and torqued to TCM Specifications. AD's: AD 07-04-19R1 Superior Cylinders – N/A by date of** manufacture. **Washed engine and run for operations and leak check - okay at this time and date.**

END

I certify that this **engine** *has been inspected in accordance with an Annual inspection and is determined to be in airworthy Condition. AD's checked through 2007-10. Date June 13, 2007.*

By Joseph L. Salazar *A&P585940179IA*

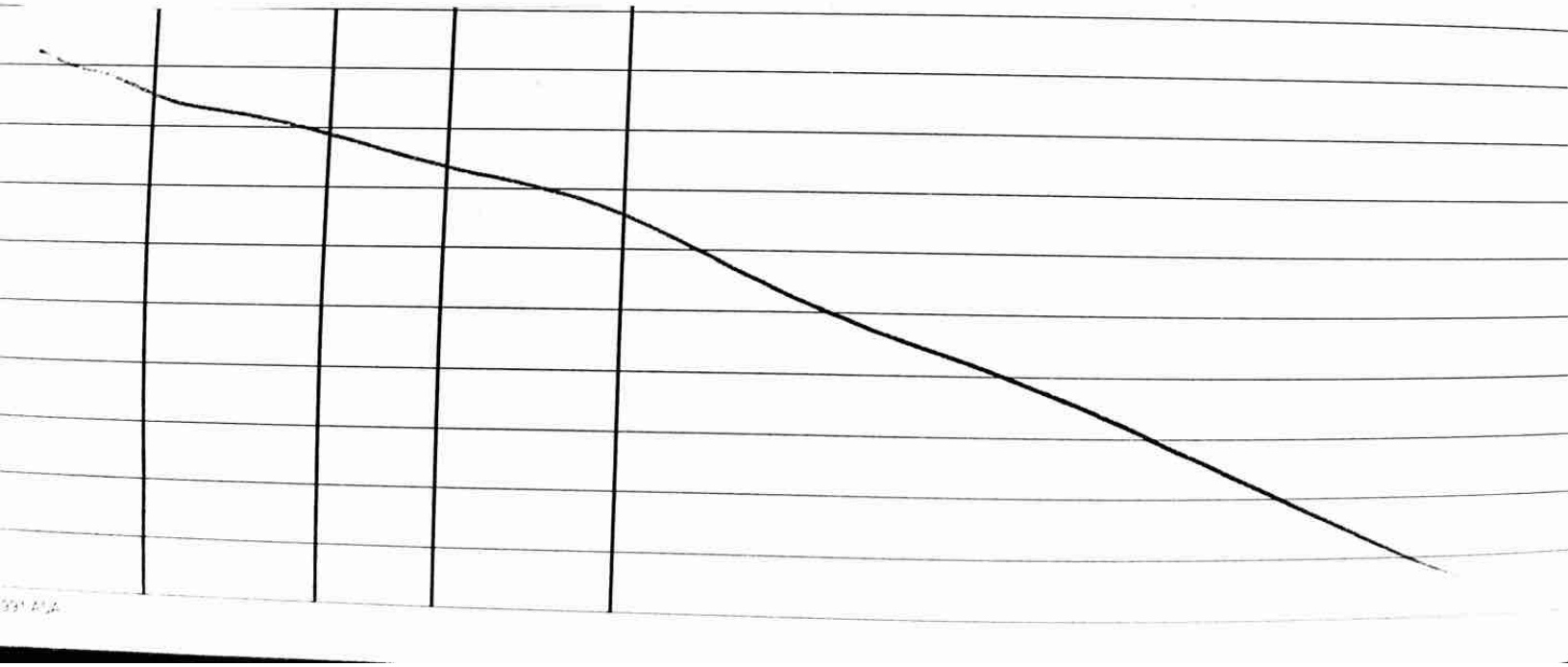
15 August, 2008 N9763Y Tach 2554.1
TCM IO-520-BB S/N 285651-R Engine TT 1704.1
TSOH 93.9

NORTH VALLEY AVIATION
ALBUQUERQUE, NM

C/W an Annual inspection using the Beechcraft maintenance manual check list as a guide. Installed new spark plugs. C/W compression check OK. C/W Magneto timing check. Changed oil and filter serviced with Phillips X/C 20/50 . A.D. 2005-12-06 TCM magneto N/A by engine manufacture. A.D. 97-26-17 TCM crankshaft inspection due when removed. I certify that this engine has been inspected in accordance with an Annual inspection and found to be airworthy for return to service with respect to the above work performed.

David C. Krueger

David C. Krueger A&P 460210305 IA



Morgan Enterprises
4119B Elaine DR
Los Lunas, NM 87031
(505) 565-4081

N # - N9763Y	Make - Beechcraft	Model – P35	Serial # - D7148
Date -10/31/11	Year - 1963	Tach – 2573.3	

I certify that I have inspected this engine I/A/W an Annual inspection and found it to be in airworthy condition. Installed 10 Qts Phillips 20w50 XC oil and 48109 oil filter. Inspected old filter and found it to be clean. Cleaned and gapped plugs. Checked mag timing. Compression 1-75, 2-75, 3-74, 4-74, 5-78, 6-76 @ 80 psi. AD 2005-12-06 TCM Magneto N/A by engine manufacturer. AD 97-26-17 TCM Crankshaft inspection due when removed. See AD list for details. Engine ran up and leak checked, no leaks found. This engine returned to service this date.

Eugene R. Morgan
A&P 2006621

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alteratio** Entries must be endorsed with Name, Rating and Certificate Number o Technician or Repair Facility. (*See* back pages for other specific entries

N9763Y 3-4-2013 Tach time 2575.6
100/Annual inspection complete checked compression Inspect
Spark plugs Checked mag timing cleaned fuel screens Oil and
Filter were not changed at this time Inspected motor mounts
Charged battery Replaced gear horn micro switch
I certify this engine airworthy for return to service
David L Robertson
A&P2193392IA

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G	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
			5-27-2014 N9763Y Tach tine 2595 100/Annul inspection complete checked compression cleaned Gap spark plugs checked mag timing cleaned fuel screens Inspect exhaust and intake system cleaned air filter OIL & FILTER WERE NOT CHANGED I certify this engine airworthy for return to service David L Robertson A&P2193392IA

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alteratio** Entries must be endorsed with Name, Rating and Certificate Number o Technician or Repair Facility. (*See* back pages for other specific entrie
				11-5-2015 Tach time 2613.0 100/Annual inspection complete checked compression Clean and gap spark plugs checked mag timing Changed oil an filter Clean air filter clean fuel screen I certify this engine airworthy for return to service David L Robertson A&P2193392IA

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RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)
			11-1-2018 N9763Y Tach time 2533.29 100/Annual inspection complete checked Compression #1 70 #2 72 #3 70 #4 68 #5 70 #6 70 OIL AND FILTER WERE NOT CHANGED checked Mag timing inspect intake and exhaust Replaced Throttle cable with new I certify this engine airworthy for return to service David L Robertson A&P21933921

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

SHILOH AVIATION CENTER, INC.

Phone: 505-861-1326
P.O. Box 519
Los Lunas, NM 87031
USA

ENGINE Continental IO-520-BB, Serial Number: 285651. February 24. 2020. Tach: 2641.52; TSMOH: 0181.32. TT: 1791.52
Annual Inspection completed using Raytheon Bonanza Series Maintenance Manual 100/Annual Inspection Form and FAR 43 Appendix (D), as a guide. Compression Test was performed and the results are: #1-77/80, #2-75/80, #3- 72/80, #4 – 76/80, #5 – 75/80 and #6 – 71/80. Oil was NOT changed.

I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy Condition. AD's checked thru February 24, 2020.

Joseph L. Salazar Joseph L Salazar A&P3497829IA

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries

05/24/2021 N9763Y Tach time 2652.62 TSMOH 192.32
100 hr inspection complete checked compression #1 78 #2 76 #3 72 #4 70 #5 75 #6 76 cleaned and gap spark plugs checked mag timing cleaned fuel screens Inspect exhaust system and intake system checked air cleaner Changed oil And filter Phillips 20x50
I certify this engine airworthy for return to service
David L Robertson
A&P2193392

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alteratio** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries
				09/13/2024 N 9763Y Tach time 2665.2 TSMOH 203.22 100HR inspection complete checked compression #1 78 #2 76 #3 73 #4 74 #5 75 #6 75 Cleaned and gap spark plugs Checked mag timing OIL & FILTER not changed Serviced air cleaner Inspect intake and exhaust system inspect motor mounts Remove fuel boost pump for overhaul and reinstalled after overhaul I certify this engine airworthy for return to service David L Robertson A&P2193392

91 ASA

DATE

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tions, Tests, Repairs and Alterations
vith Name, Rating and Certificate Number of
y. (*See* back pages for other specific entries.)

10-22-25 N9763Y Tach: 2681.83 Eng. SMOH: 0227.29

SOUTH DELTA AVIATION
4248 S. School Ave. Fayetteville, AR. 72701
1-479-935-4891

Engine is clean for annual inspection. Inspected and lubricated engine controls. Inspected engine mounts and vibration isolators. Pressure tested muffler. Changed oil, and oil filter. Checked oil filter for visible metal. None found. Serviced engine with 11 qts. of Phillips 20W-50 XC oil, and new oil filter. (AA48109)
Cleaned and gapped spark plugs. Checked magneto timing.
Compression tested as per SB03-3 (Calibrated Reading: 45/80)
#1) 71/80 #2) 73/80 #3) 73/80 #4) 65/80 #5) 65/80 #6) 64/80

1. Installed fuel metering body after overhaul by Consolidated Fuel Systems. P/N) 629904-2 S/N) CF1J8F05
See 8130-3 under W/O# 11J8F dated, 14-Oct-2025. Checked fuel pressures as per SID97-3E.

*A.D.# 14-05-29. Superior cylinders. Complied with as per Superior SB14-01 in accordance with FAA AMOC No. 7F0-22-6349, Docket No. FAA-2007-0051. These cylinders may be operated to TBO or Nov. 15, 2028 whichever comes first as per Superior SB14-01 for the times authorized by this AMOC. See referenced Service Bulletin and AMOC in aircraft records.

---------- (CONTINUED) ----------

10-22-25 N9763Y Tach: 2681.83 Eng. SMOH: 0227.29

----------ENGINE CONTINUED----------

Engine maintained as per the Beech service manual.
Ran engine, all normal.

I certify that this engine was inspected in accordance with an annual/100hr inspection, as per the FAR43 App. D checklist, and has been determined to be in an airworthy condition.

David Baker A&P3135015IA (Pg. 2 of 2)

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DATE 19_____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.)

9 July, 2026	McClung Aviation, LLC	N9763Y
Hobbs: 2140.7	Heber Springs, Ar.	S/N D-7148

1. Drained oil and cut open filter. Checked for metal, non-found.
2. Serviced engine with Phillips X/C 20W50 oil and AA48108-2 filter.
3. Cleaned and ran engine. Leak checked, no leaks noted.
4. All parameters normal at this time.

Christopher Ray McClung 3120255 A&P

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