1977 CESSNA 177B

Specifications

Price	$ 85,000.00
Year	1977
Serial	177-02649
Registration	N20229
TTAF	2315
Ad Type	Sale Pending
Location	KPHD
Type	Sold
Summary	Make Her your own!!!! (MUST SELL) (!!! SOLD !!!) LOW TIME!! C177B Lyc 360 4 cylinder 180 HP with C/S. Prop 2315 total airframe time 2315 total engine and prop time All original white leather seats All original exterior paint Replaced all window glass costing $5,000.00. Front to back Recent brake rotors and pads 2 king 155 radios, one with G/S and one LOC 1 king 64 DME S-tech 30 auto pilot with heading bug only Univoix wing beacon for ADS-B Missing air frame and engine logs from 1977 to 1989 - 1990 to current available All STC and 337 forms are with the plane including the build sheet from Cessna Always well taken care of and flown by owners pilot for 450 problem free hours in past 18 years of ownership. Always hangared by us since 2007 when purchased. Wing spare testing completed by Pro Av at KPHD All compressions above 76 and records for oil analysis since 2007 LONG RANGE TANKS 60 GAL Useful load 874lbs
Airframe Details:	2315 total airframe time
Engine Detail	Lyc 360 4 cylinder 180 HP with C/S. Prop All compressions above 76 and records for oil analysis since 2007
Avionics	2 king 155 radios, one with G/S and one LOC 1 king 64 DME S-tech 30 auto pilot with heading bug only Univoix wing beacon for ADS-B

Exterior	All original exterior paint 6.5 A (GOOD AIRCRAFT DETAIL) WOULD MAKE HER SHINE
Interior:	All original white leather seats 7.5 plastics panels has some cracks
Maintenance:	All STC and 337 forms are with the plane including the build sheet from Cessna Always well taken care of and flown by owners pilot for 450 problem free hours in past 18 years of ownership. Always hangared by us since 2007 when purchased. (Wing spare testing completed by Pro Av at KPHD)
Addition Features, Equipment or Comments	THIS BIRD NEEDS TO GO TO A GOOD HOME TO SOMEONE WHO IS GOING TO TAKE CARE OF HER AND MAKE HER THERE OWN (More logbook documents available upon request)

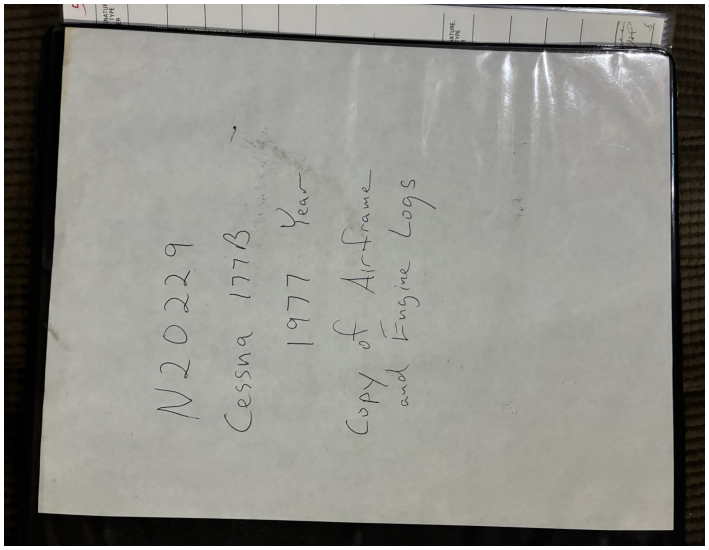
Broker

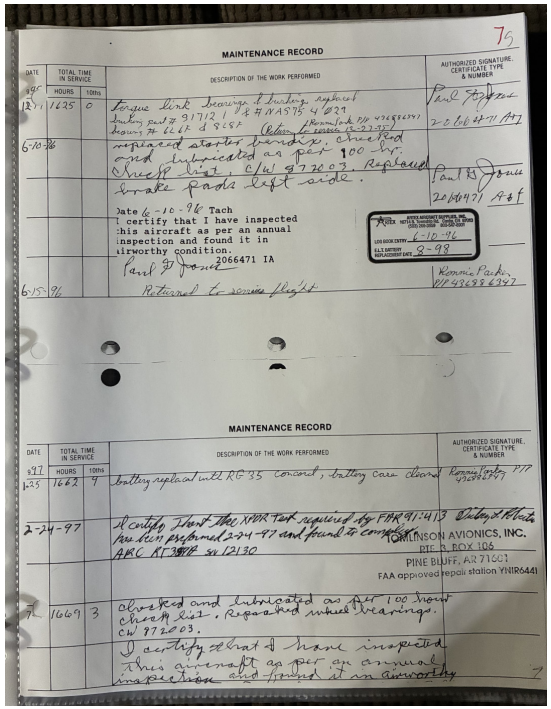
Name	Vaughn West
Email:	vaughn.w@usaaircraft.com
Designation	Area Aircraft Broker
Address	185 Miles Ave NW, Canton, OH 44708 United States
Telephone:	(330) 445-9583
Mobile:	330-445-9583
Skype:	-

Images

Exterior





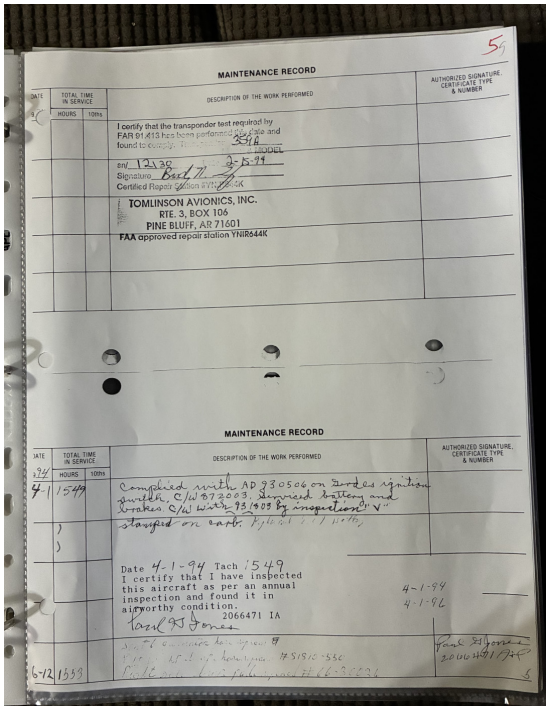


MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE HOURS	10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
12-1	1625	0	Torque link bearings & bushing replaced bushing part # 91772 1 & # 1 A 4 5 7 5 4 029 bearing # 6 L L 2 & 9 6 8 Return to service (Normal) P/N 47685041	Paul S Jones 2066471 IA
6-10-96			replaced starter bendix, drive end and lubricated as per 100 hr. check list, C/W 872003. Replaced brake pads left side.	Paul S Jones 2066471 A&P
			Date 6-10-96 Tach I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. Paul S Jones 2066471 IA	6-10-96 6-9-98 Ronnie Parker 419658 6347
6-15-96			Returned to service flight	

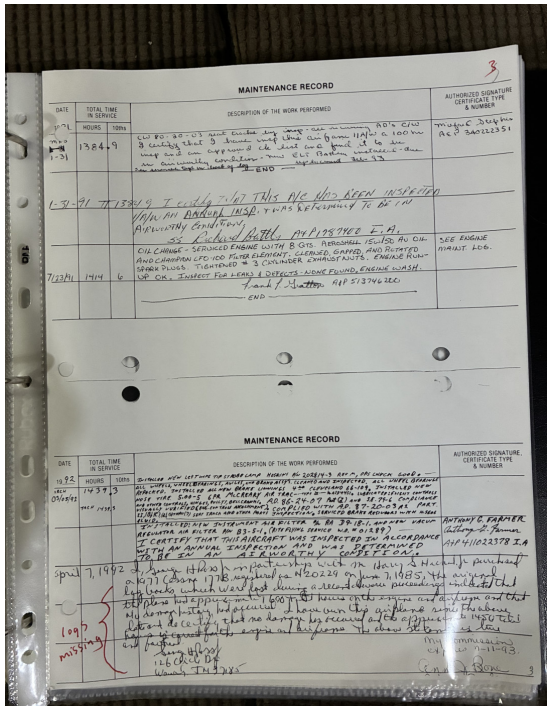
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE HOURS	10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
8-97	1662	9	battery replaced with RC-35 concord, battery core aboard Ronnie Parker 419658347	
2-24-97			I certify that the XPDR test required by FAR 91.413 has been performed 2-24-97 and found to comply. ABC RT3594 SN 12130 TOMLINSON AVIONICS, INC. RTE. 3, BOX 105 PINE BLUFF, AR 71601 FAA approved repair station YNIR644K	Robert Potts 13
7	1669	3	checked and lubricated as per 100 hour check list. Repacked wheel bearings. CW 872003. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy	



MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE HOURS	10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
			I certify that the transponder test required by FAR 91.413 has been performed this date and found to comply. Transponder MODEL 331A S/N 12130 Date 3-5-94 Signature Certified Repair Station # TOMLINSON AVIONICS, INC. RTE. 3, BOX 106 PINE BLUFF, AR 71601 FAA approved repair station YNIR644K	
4-1-94	1549		Complied with AD 93-06-06 on Bendix ignition switch. C/W 872003. Serviced battery and brakes. C/W with 93-09-03 by inspection V stamped on part.	
			Date 4-1-94 Tach 1549 I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. Paul S Jones 2066471 IA	4-1-94 4-1-96
6-12	1559			Paul S Jones 2066471 A&P

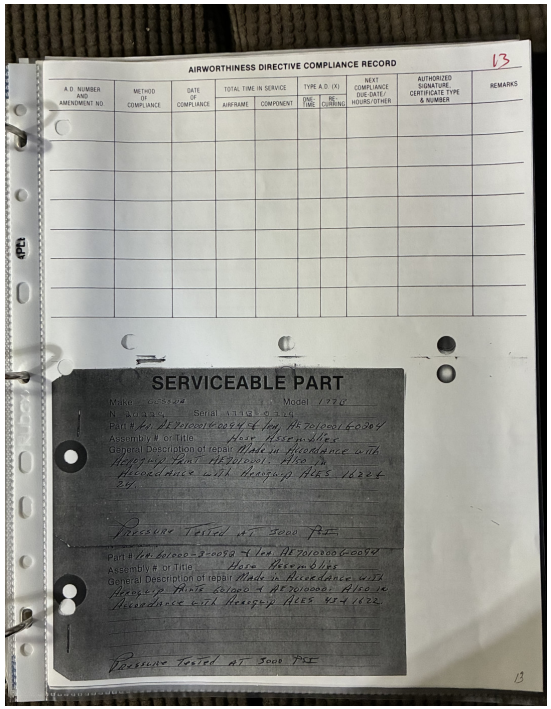


MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE HOURS	10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
1-31-91	13849		CW AD 88-03-03 was complied on engine was removed AD's C/W 3 certify that 3 engine cowling mounts were found to be cracked and found it to be necessary to have replaced. I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Dated 1-31-91 — END —	Wayne Dickson A&P 340222351
1-31-91	13849		I certify that this aircraft has been inspected in accordance with an ANNUAL INSP. and was determined to be in an Airworthy condition. Richard Potts A&P 1987460 I.A. — SEE Richard Potts, A&P 1987460 I.A.	
7/23/91	1914	6	OIL CHANGE - SERVICED ENGINE WITH 8 QTS. AEROSHELL 15W/50 AN OIL AND CHAMPION CFO-100 FILTER ELEMENT. CLEANED, GAPPED AND ROTATED SPARK PLUGS. TIGHTENED # 3 CYLINDER EXHAUST NUTS. ENGINE RUN UP OK. INSPECT FOR LEAKS & DEFECTS - NONE FOUND, ENGINE WASH. Frank J. Sutton A&P 513746 IEC — END —	SEE ENGINE MAINT. LOG.

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE HOURS	10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
10-92	14593		DURING NEW LOCATION OF CLOCK LINES HEATER AD 2002-19-5 AD 91-09-01 AD 94-08-02 ALL ENGINE HOSES, CLAMPS, FITTINGS, ELBOWS, ETC. WERE REMOVED, INSPECTED & REINSTALLED AS NEEDED. ALL ENGINE BELTS



AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

13

A.D. NUMBER AND AMENDMENT NO	METHOD OF COMPLIANCE	DATE OF COMPLIANCE	TOTAL TIME IN SERVICE: AIRFRAME	TOTAL TIME IN SERVICE: COMPONENT	TYPE A.D. (X): ONE TIME	TYPE A.D. (X): RE-CURRING	NEXT COMPLIANCE DUE DATE / HOURS/OTHER	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	REMARKS

SERVICEABLE PART

Make: Cessna Model: 172G

N. Number: Serial: 17252024

Part # or ID: AE7010001-0044 & Inv. AE7010001-0044

Assembly # or Title: Main Assemblies

General Description of repair: Made in Accordance with Hartzell Prop. Inc. Manual No. 115 & in Accordance with Hartzell AMS 4344 & 4622

Pressure Tested AT 3000 PSI

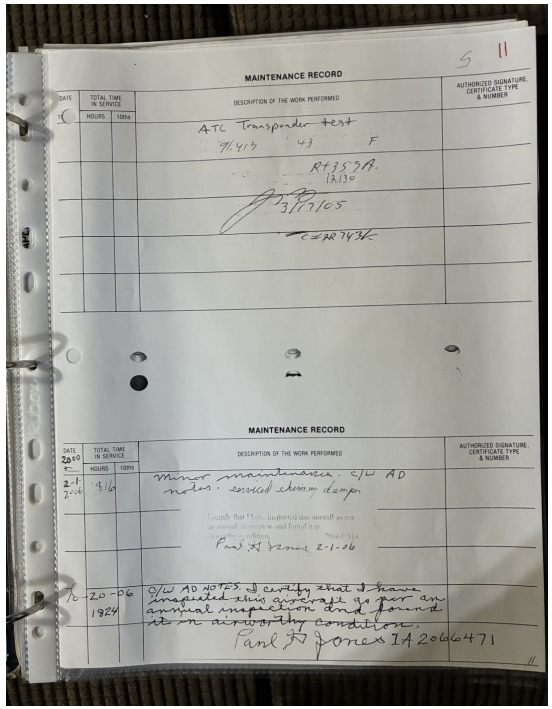
Part # AE7010003-2-0053 & Inv. AE7010003-2-0044

Assembly # or Title: Hose Assemblies

General Description of repair: Made in Accordance with Hartzell Prop. Inc. Manual No. 115 & in Accordance with Hartzell AMS 4344 & 4622.

Pressure Tested AT 3000 PSI

13



MAINTENANCE RECORD

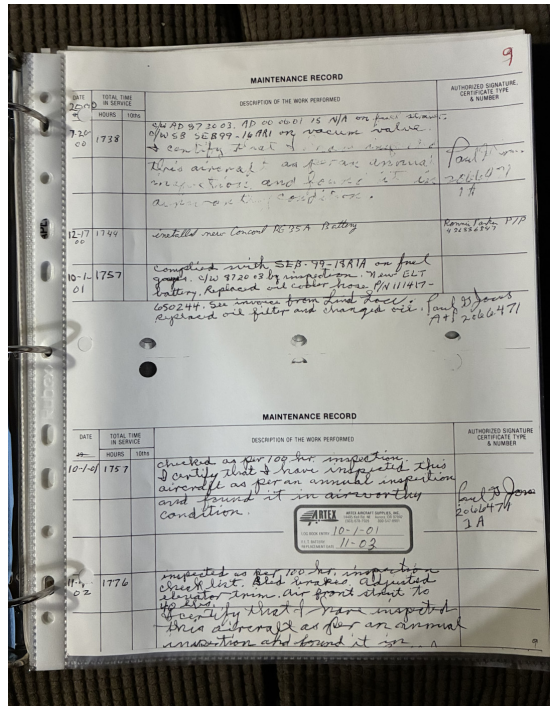
11

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
			ATC Transponder test 9/1/03 43 F RT359A 12/30 3/7/05 C=AR7436	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
2-1-06	1816		minor maintenance. C/W AD notes. serviced chrome dampr. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. Paul H Jones 2-1-06	
10-20-06	1824		C/W AD NOTES I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. Paul H Jones IA 2066471	

11



MAINTENANCE RECORD

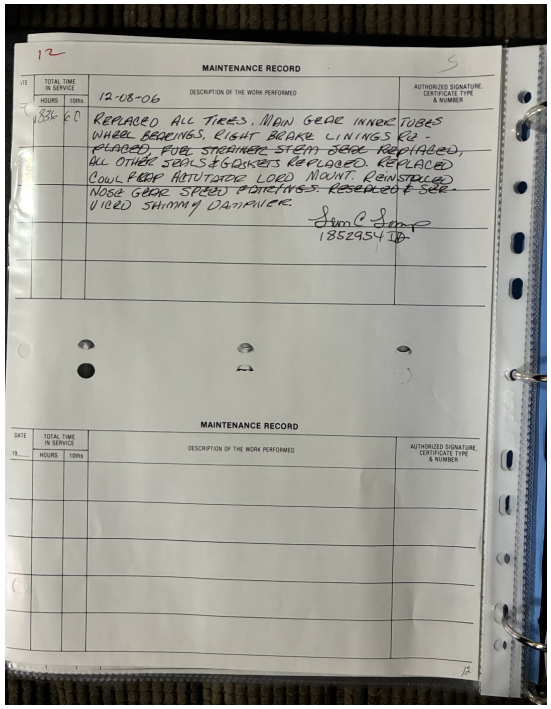
9

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
7-25-00	1738		C/W AD 97-20-03, AD 00-06-01 IS N/A on fuel strainer. C/W SB SEB99-16 R1 on vacuum valve. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition.	Paul H Jones 1A
12-17-00	1744		installed new Concord RG-75A Battery	Ronnie Tate 4926862467
10-1-01	1757		Complied with SEB-99-19 R1A on fuel gauge. C/W 97-20-03 by inspection. New ELT Battery, Replaced oil cooler hose. P/N 111417-650244. See invoice from Lind Electric. I also Replaced oil filter and changed oil.	33 hours Paul H Jones IA 2066471

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
10-1-01	1757		checked as per 100 hr. inspection. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. ARTEX 10-1-01 11-03	Paul H Jones 2066471 IA
11-1-02	1776		inspected as per 100 hr. inspection check list. Also makes adjusted elevator trim. air front about 10 lbs left. I certify that I have inspected this aircraft as per an annual inspection and found it in	

9



MAINTENANCE RECORD

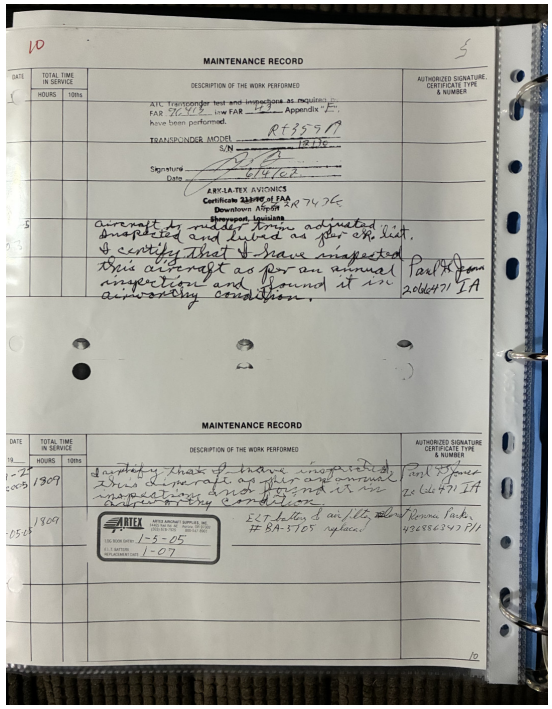
12

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
12-08-06	1836	6	REPLACED ALL TIRES, MAIN GEAR INNER TUBES WHEEL BEARINGS, RIGHT BRAKE LININGS R12 - REPACED, FUEL STRAINER STEM SEAL REPAIRED, ALL OTHER SEALS & GASKETS REPLACED. REPLACED COWL FLAP ACTUATOR LOED MOUNT REINSTALLED NOSE GEAR SPEED FASTENERS RESERVED & SER-VICED SHIMMY DAMPNER. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. Tom C Sims 1852954 IA	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

12



MAINTENANCE RECORD

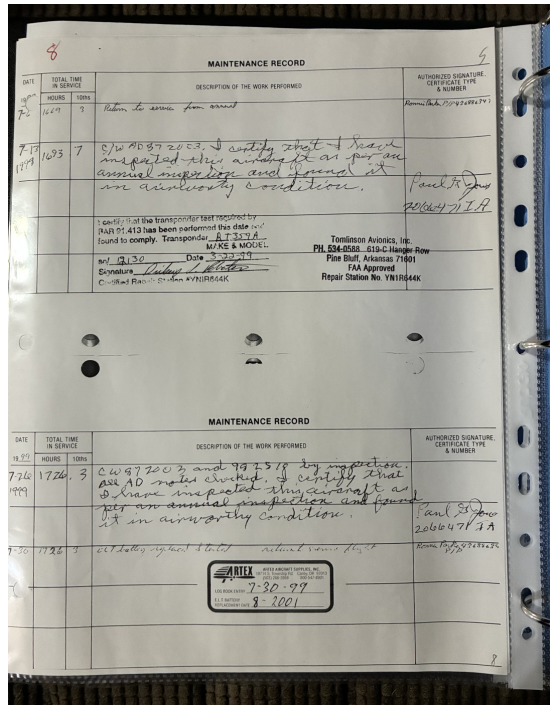
10

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
			ATC Transponder test and inspections as required by FAR 91.413 Low FAR 43 Appendix F. have been performed. TRANSPONDER MODEL RT359A S/N 18776 Signature Date 12/6/05 ARKLA-TEX AVIONICS Certificate 21896 of FAA Downtown Airport Shreveport, Louisiana C=AR7476	
1-25-05	1909		aircraft is under 100 hr. inspected and lubed as per ck. list. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition.	Paul H Jones 2066471 IA
1-25-05	1909		ARTEX 1-25-05 1-07 ELT Battery & antenna checked # BA-3705 replaced	Ronnie Tate 4926862467 A&P

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
1-25-05	1909		I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition.	Paul H Jones 2066471 IA

10



MAINTENANCE RECORD

8

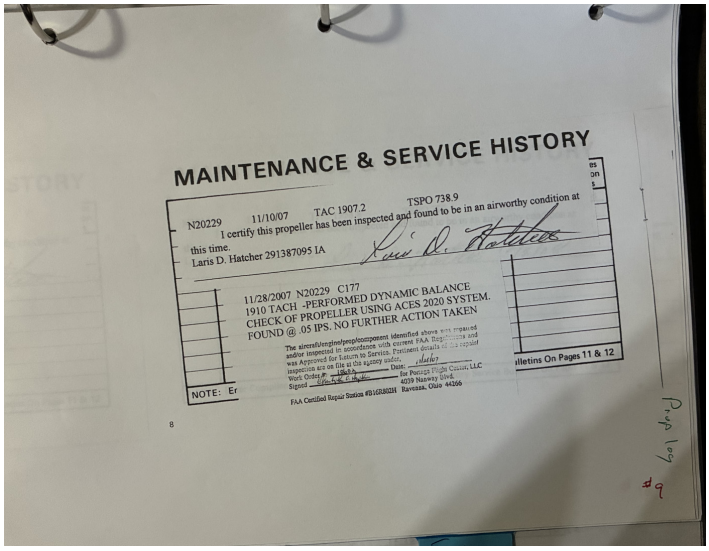
DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	1629	7	Return to service from annual	Ronnie Tate 4926862467
7-13-99	1693	7	C/W AD 97-20-03, I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition.	Paul H Jones 2066471 IA

I certify that the transponder test required by FAR 91.413 has been performed this date and found to comply. Transponder RT359A S/N & MODEL: 18776 Date 12/30 Signature Tomlinson Avionics, Inc. PH. 534-0588 619-C Hanger Row Pine Bluff, Arkansas 71601 FAA Approved Repair Station No. YN1R644K Certified Repair Station #YN1R644K

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 10ths	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
7-26-99	1726	3	C/W 97-20-03 and 99-15-18 by inspection. ELT Battery replaced & tested. I certify that I have inspected this aircraft as per an annual inspection and found it in airworthy condition. ARTEX 7-30-99 8-2001	Paul H Jones 2066471 IA

8



MAINTENANCE & SERVICE HISTORY

N20229 11/10/07 TAC 1907.2 TSPO 738.9
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

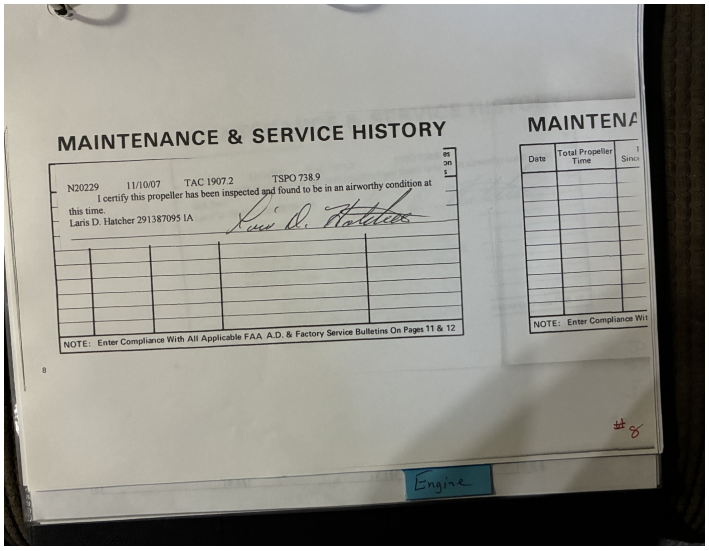
11/28/2007 N20229 C177
1910 TACH -PERFORMED DYNAMIC BALANCE
CHECK OF PROPELLER USING ACES 2020 SYSTEM.
FOUND @ .05 IPS. NO FURTHER ACTION TAKEN

The aircraft/engine/prop/component identified above was repaired and/or inspected in accordance with current FAA Regulations and was Approved for Return to Service. Pertinent details of the repair/inspection are on file at the agency under Work Order # 19863
Date: 11/28/07
Signed
For: Pecora Flight Center, LLC
4039 Nagawy Blvd.
Ravenna, Ohio 44266
FAA Certified Repair Station #3162R281

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

Prop log

#9



MAINTENANCE & SERVICE HISTORY

N20229 11/10/07 TAC 1907.2 TSPO 738.9
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

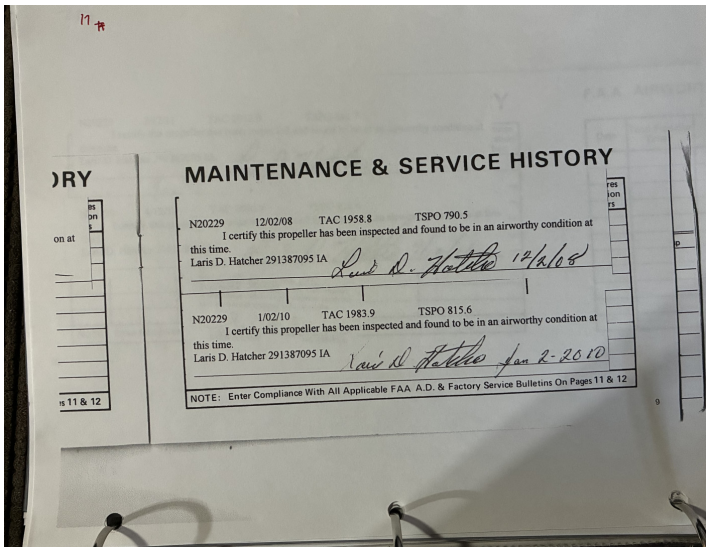
MAINTENA

Date	Total Propeller Time

NOTE: Enter Compliance Wit

#8

Engine



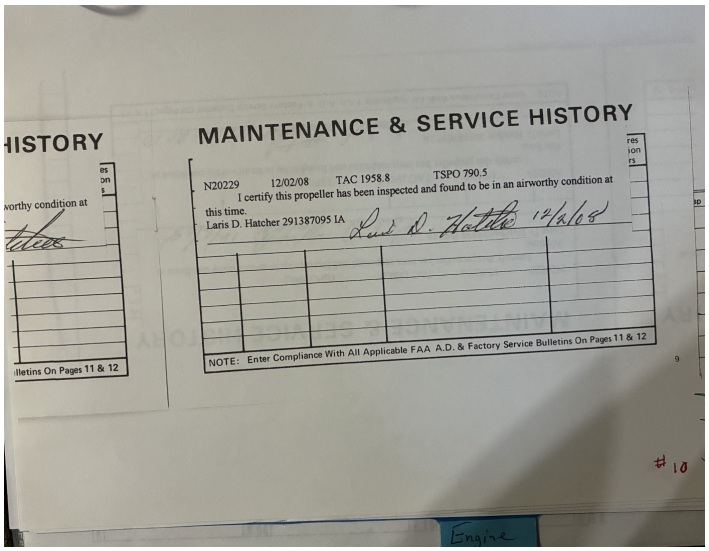
11 #

MAINTENANCE & SERVICE HISTORY

N20229 12/02/08 TAC 1958.8 TSPO 790.5
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA 12/2/08

N20229 1/02/10 TAC 1983.9 TSPO 815.6
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA Jan 2-2010

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12



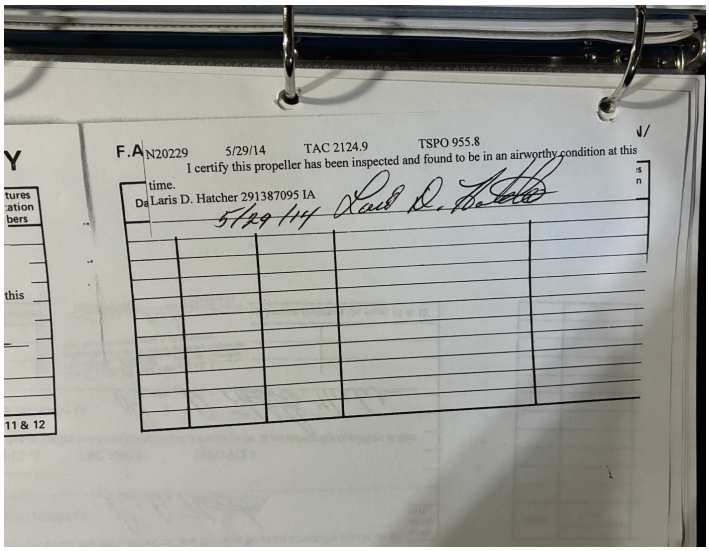
MAINTENANCE & SERVICE HISTORY

N20229 12/02/08 TAC 1958.8 TSPO 790.5
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA 12/2/08

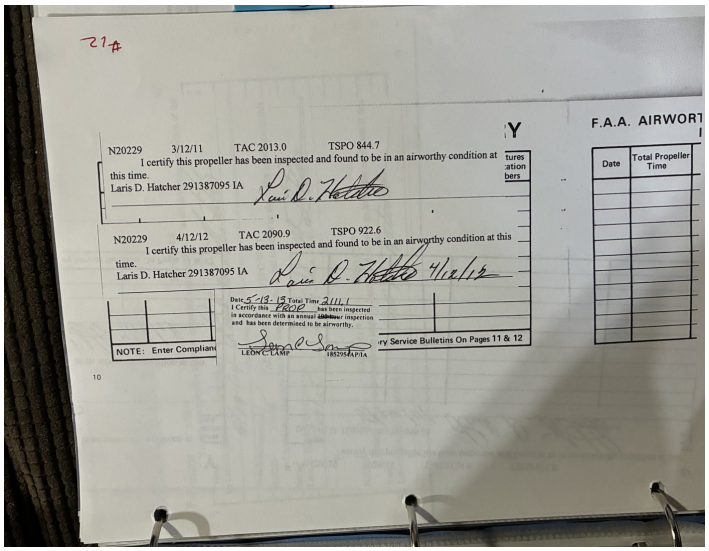
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

#10

Engine



N20229 5/29/14 TAC 2124.9 TSPO 955.8
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
5/29/14



21 #

N20229 3/12/11 TAC 2013.0 TSPO 844.7
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

N20229 4/12/12 TAC 2090.9 TSPO 922.6
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA 4/12/12

Date 5-13-13 Total Time 2111.1
I Certify this PROP has been inspected in accordance with an annual/100 hour inspection and has been determined to be airworthy.
LEONE LAMP 1852705A1/P1A

NOTE: Enter Compliance

F.A.A. AIRWORT

Date	Total Propeller Time

21

DATE	IT IN SER.	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERT. & NUMBER
19—	HRS		
	N20229	6/22/18 TAC 2159.3 TSTO 1427.2 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-74 2-74 3-74 4-76, clean gap and rotate spark plugs, remove complete exhaust system replace all exhaust gaskets, anti-seize exhaust slip joints on power flow exhaust, replace, service air filter, repair right eng baffling, Test ELT I/A/W FAR91-207-D ops ck good battery next due 8/19, C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	
	N20229	6/22/18 TAC 2159.3 TSTO 1427.2 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-75 2-73 3-72 4-72, clean gap and rotate spark plugs, remove complete exhaust system install all new exhaust gaskets, anti-seize all exhaust slip joints on power flow exhaust, replace, service air filter, repair right eng baffling, Test ELT I/A/W FAR91-207-D ops ck good battery next due 8/19, C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	991.0
	N20229	7/19/19 TAC 2176.0 TSTO 1443.9 TSTO 1007.7 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-75 2-74 3-72 4-72, clean gap and rotate spark plugs, remove complete exhaust system install all new exhaust gaskets, anti-seize all exhaust slip joints on power flow exhaust, service air filter, replace all windows from gasket, Test ELT I/A/W FAR91-207-D ops ck good battery next due 8/19, C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	
		N20229 September 09, 2019 Removed left nav/strobe light assembly. Replaced with new 97ft mHZ AD5-B ost naVionix SkyBeacon assembly, PN# (1AV-1001856-002 in accordance with skyBeacon STC installation instruction no. SA02754SE, STC# SA02754SE **Douglas P. Kreh A&P 3586678 IA**	

DATE	TOTAL IN SER.	
19—	HOURS	

22

DATE	IT IN SER.	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERT. & NUMBER
19—	HRS		
		ATC Transponder Tests and Inspections as required by FAR 91.413 (b) & (h), have been performed IAW FAR 43, Appendix E& F. TXP# Model RT 359A S/N 12135 ENCODER Model BE-67 S/N 10356 Tested to 1,500 FEET WO 3500 Technician Signature Date 6/16/23 Printed Name CRS EVE27IN FAA Certified Svc Station # 3486	
	N20229	7/10/20 TAC 2208.1 TSTO 1476.0 TSTO 1039.8 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-78 2-76 3-74 4-76, clean gap and rotate spark plugs, remove complete exhaust system and anti-seize all exhaust slip joints install new studs on #1&3 cylinder all new exhaust gaskets on power flow exhaust, service challenger air filter, repair sagging left door, replace 3 engine cowl mounts, Test ELT I/A/W FAR91-207-D ops ck good battery next due 9/22 C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	
	N20229	7/13/21 TAC 2228.6 TSTO 1496.3 TSTO 1060.3 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-76 2-76 3-76 4-76, clean gap and rotate spark plugs, remove complete exhaust system and anti-seize all exhaust slip joints install new studs on #1&3 cylinder all new exhaust gaskets on power flow exhaust, service challenger air filter, Test ELT I/A/W FAR91-207-D ops ck good battery next due 9/22 C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	

20

DATE	IT IN SER.	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERT. & NUMBER
19—	HRS		
		ATC Transponder Tests and Inspections as required by FAR 91.413 (b) & (h), have been performed IAW FAR 43, Appendix E& F. TXP# Model RT 359A S/N 12135 ENCODER Model BE-67 S/N 10356 Tested to 1,500 FEET WO 3500 Technician Signature Date 6/16/23 Printed Name CRS EVE27IN FAA Certified Svc Station # 3486	
	N20229	6/8/16 TAC 2141.0 TSTO 1408.9 TSTO 972.7 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-76 2-76 3-74 4-76, clean gap and rotate spark plugs, remove complete exhaust system and anti-seize all exhaust slip joints on power flow exhaust, service air filter, Test ELT I/A/W FAR91-207-D ops ck good and battery next due 12/16, C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	
	N20229	6/2/17 TAC 2149.2 TSTO 1417.1 TSTO 980.9 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt 15x50 Aeroshell oil and AA48103-2 filter, compression test over 80psi 1-76 2-76 3-74 4-76, clean gap and rotate spark plugs, remove complete exhaust system repair exhaust leak and install new helical install all new exhaust gaskets, and anti-seize all exhaust slip joints on power flow exhaust, service air filter, repair rudder trim cable, replace ELT, Test ELT I/A/W FAR91-207-D ops ck good and battery next due 8/19, C/W AD 11-10-09 seats and tracks by inspection, AD 05-12-06 Impulse coupling ea 500hr next due tac 2407.2 , Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	

DATE	TOTAL IN SER.	
19—	HOURS	

23

DATE	TOT IN SER.	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERT. & NUMBER
19—	HOURS		
		ATC Transponder Tests and Inspections as required by FAR 91.413 (b) & (h), have been performed IAW FAR 43, Appendix E& F. TXP# Model RT359A S/N 12136 ENCODER Model ACE A30 S/N 10356 Tested to 1500 FEET WO 34424 Technician Signature Date 6-23-22 Printed Name CRS E3T827IN FAA Certified Svc Station # 3486	
	N20229	8/04/22 TAC 2246.7 TSTO 1514.6 TSTO 1078.4 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt Aeroshell 100W oil and AA48103-2 filter, compression test over 80psi 1-74 2-76 3-74 4-76, clean gap and rotate spark plugs, remove Mag and send to Tropic air power for 500hr insp and repair sec 337, remove carburator and send to IA43 supply for over haul sec 337 this tasks, remove complete exhaust system repair exhaust leak and install new helical gaskets on power flow exhaust, service challenger air filter, replace right and left main tires with new tube in right main. Test ELT I/A/W FAR91-207-D ops ck good battery next due 9/24 C/W AD 11-10-09 seats and tracks by inspection, Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	

24

DATE	IT IN SER.	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERT. & NUMBER
19—	HRS		
	N20229	5/16/25 TAC 2297.0 TSTO 1564.9 TSTO 1128.7 Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt Aeroshell 100W oil and AA48103-2 filter, compression test over 80psi 1-78 2-76 3-78 4-76, clean gap and rotate spark plugs, remove complete exhaust system repair exhaust leak and install new helical gaskets on power flow exhaust, service challenger air filter, repair right door handle, remove ELT for repair, C/W AD 11-10-09 seats and tracks by inspection, Test run ops and leak ck and no defects noted at this time. I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time. Laris D. Hatcher 2913870951A	

DATE	TOTAL IN SER.	
19—	HOURS	

Engine

INSTALLATION HISTORY

Date	Aircraft Model & Registration No.	Engine Serial Number & Position
3/10/89	Cessna 172N, N20229	Lyc O-360-A1E6D SN L-25127-36A

THIS UNIT IS OVERHAULED IN ACCORDANCE WITH CURRENT ORIGINAL EQUIPMENT MANU. LATEST MANUFACTURERS SERVICE BULLETINS AND AIRWORTHINESS DIRECTIVES.

ELECTRONIC INTERNATIONAL INC.
P.O. Box 873 MOUNT AIRY, N.C. 27030-0873 (336) 789-5000

FAA APPROVED REPAIR STATION NO. UT5R222K

MAINTENANCE RELEASE

Part No. 01-2621 Serial No. 3067781 Model TCM/IBDB1X

ESI P/N 00633 ESI0-362SO-11

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was overhauled and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Signature [illegible] Date 05/11/93

Work Order No. 17325

Part(s) overhauls or life limits on this repair station order.

Airframe Log

Tach. 2273.0

(RED SIGNATURE, TITLE TYPE & NUMBER)

N20229 5/16/25 TAC 2297.0 TSTO 1564.9 TSTO 1128.7

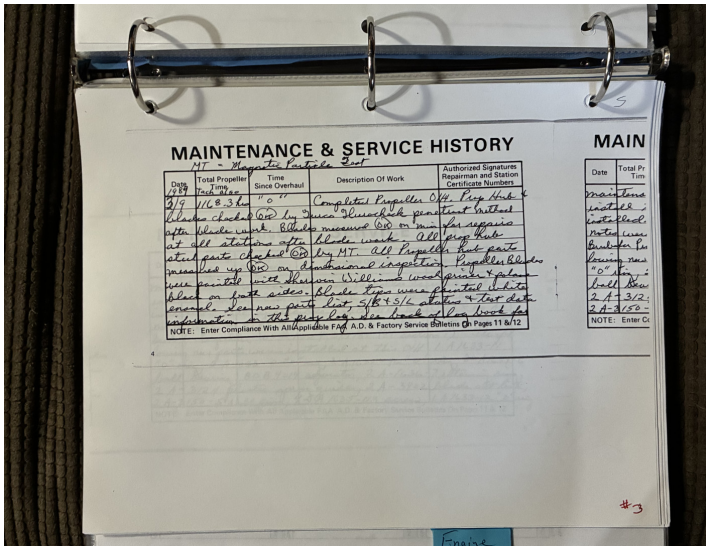
Perform annual inspection clean inspect and lube all cables and controls, change oil and oil filter add 7qt Aeroshell 100W oil and AA48103-2 filter, compression test over 80psi 1-78 2-76 3-78 4-76, clean gap and rotate spark plugs, remove complete exhaust system repair exhaust leak and install new helical gaskets on power flow exhaust, service challenger air filter, repair right door handle, remove ELT for repair, C/W AD 11-10-09 seats and tracks by inspection, Test run ops and leak ck and no defects noted at this time.

I certify this aircraft has been inspected I/A/W FAR 43 AppD for an annual inspection and found to be in an airworthy condition at this time.

Laris D. Hatcher 2913870951A

5/16/25

ELT Battery up dated with new 2035B



MAINTENANCE & SERVICE HISTORY

MT - Magnetic Particle Test

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
3/9 1989	1168.3 hrs Tach time	" 0 "	Completed Propeller O/H. Log book & blades checked (OK) by Bruce Slunchuk penetrant method after blade work. Blades measured (OK) on inspection at all stations after blade work. All prop hub attach parts checked (OK) by MT. All Propeller hub parts measured up (OK) on dimensional inspection. Propeller blades were painted with Rhein Willis wood grain & glass black on both sides. Blade type was painted white around. Ten new parts list, S/B 45/6 status & test data information in the prop log. See back of log book for	

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

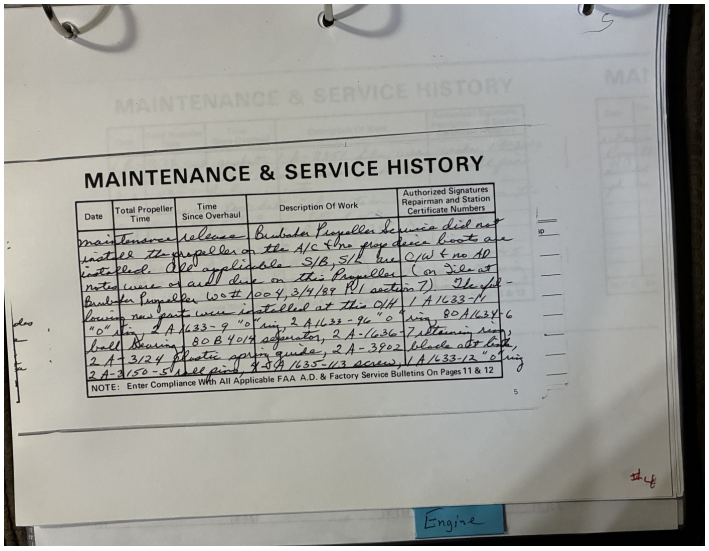
MAIN

Date	Total Pr Tim
maintena installed installed. noted was Brubaker Pro bearing new "O" ring ball Bear 2 A-3/2 2 A-3/50 -

NOTE: Enter Co

#3

Engine



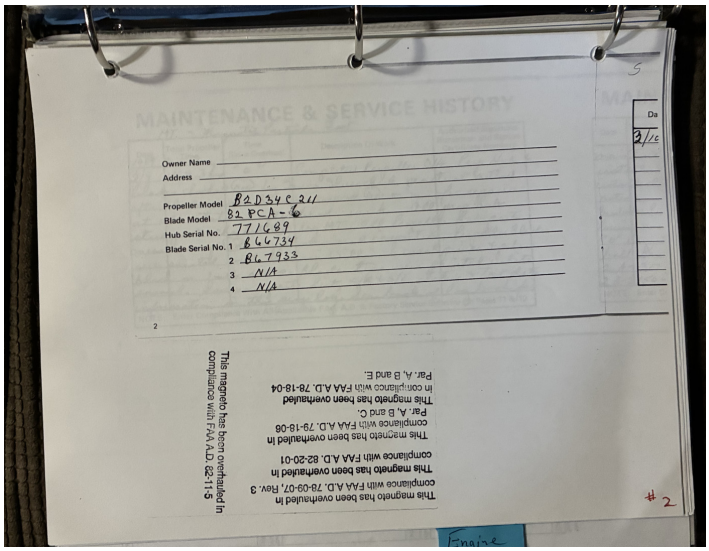
MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
maintenance release			Brubaker Propeller Service did not install the propeller on the A/C & no prop deice boots are installed. All applicable S/B, S/I & one O/H & no AD noted was due on this Propeller (on file at Brubaker Propeller WO# 1004, 3/4/89 RII section 7). The following new parts were installed at this O/H: 1 A1633-11 "O" ring, 2 A1633-9 "O" ring, 2 A1633-96 "O" ring, 80A1634-6 ball Bearing, 80B4014 separator, 2 A-1636-7 retaining ring, 2 A 3124 plastic spring guides, 2A-3902 blade act bolt, 2 A-3124 plastic spring guides, 1 A1633-13 "O" ring 2A-3150-5 roll pins, 4 A1633-113 access	

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

#4

Engine



Owner Name

Address

Propeller Model B2D34C211

Blade Model B2 PCA-6

Hub Serial No. 771689

Blade Serial No. 1 B46734

2 B47933

3 N/A

4 N/A

This magneto has been overhauled in compliance with FAA A.D. 78-18-04
Par. A, B and E.

This magneto has been overhauled in compliance with FAA A.D. 82-11-5

This magneto has been overhauled in compliance with FAA A.D. 78-09-07, Rev. 3

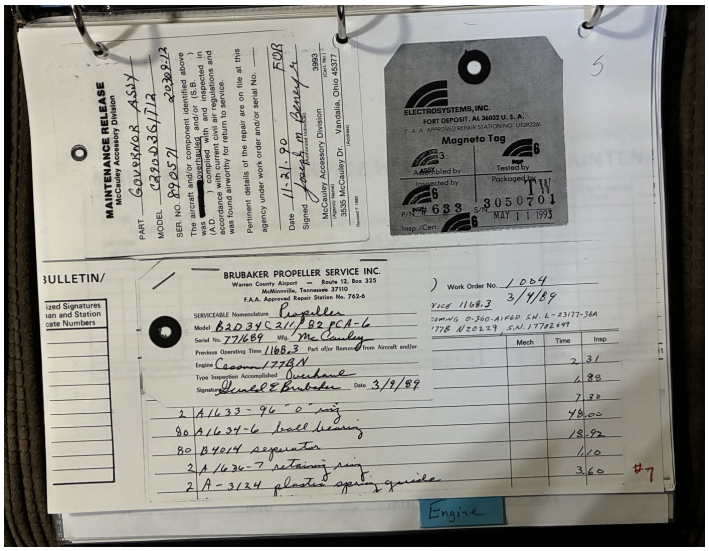
This magneto has been overhauled in compliance with FAA A.D. 82-20-01

This magneto has been overhauled in compliance with FAA A.D. 79-18-06
Par. A, B and C.

This magneto has been overhauled in compliance with FAA A.D. 78-18-04
Par. A, B and E.

#2

Engine



MAINTENANCE RELEASE
McCauley Accessory Division

PART MODEL SER. NO. 8905571

The aircraft and/or component identified above has been overhauled and/or repaired in accordance with the applicable rules and regulations of the Federal Aviation Administration (A.D. accordance) and was found airworthy for return to service.

Pertinent details of the repair are on file at this agency under work order and/or serial No. —

Date 11-21-90 Signed Joseph M. Gerency FAA 3963

McCauley Accessory Division
3535 McCauley Dr. Vandalia, Ohio 45377

ELECTROSYSTEMS, INC.
FORT DEPOSIT, AL 36032 U. S. A.
F. A. A. APPROVED REPAIR STATIONS: DE2R226

Magneto Tag

Assembled by — Tested by
Machined by — Packaged by

P/N 633 S/N 3050701

MAY 11 1993

Insp./Cert.

BULLETIN/

BRUBAKER PROPELLER SERVICE INC.
Warren County Airport — Route 12, Box 325
Multonville, Tennessee 37110
F.A.A. Approved Repair Station No. 762-6

Work Order No. 1064

SERVICEABLE Nomenclature Propeller
Model B2D34C211/82PCA-6
Serial No. 771689 Mfg McCauley
Previous Operating Time 1168.3 Part of/or Removed from Aircraft and/or Engine Cessna 177RG
Time Incorporated Accumulated Purchase
Signature Donald E Brubaker Date 3/9/89

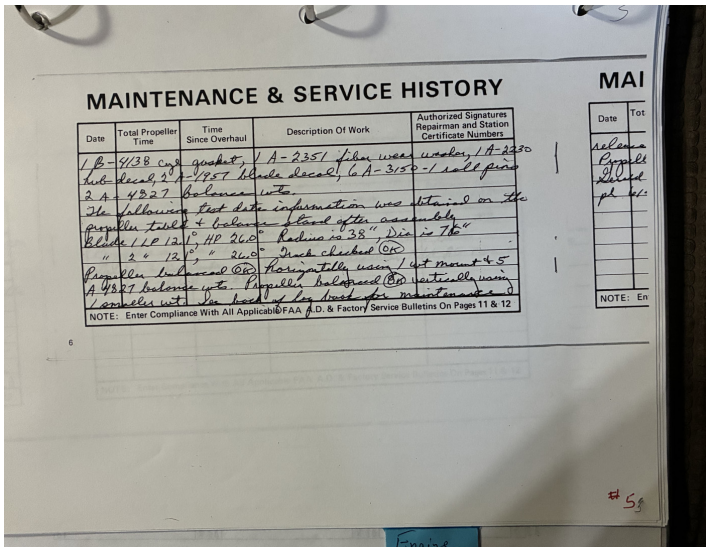
2 A1633-96 "O" ring
80 A1634-6 ball bearing
80 B4014 separator
2 A1636-7 retaining ring
2 A-3124 plastic spring guides

3/4/89
Vics 1168.3
Comm'g O-360-A1FGD SN. L-23177-36A
1778 N20229 SN 17782499

	Mech	Time	Insp
2		2.31	
4		4.88	
7		7.38	
78		78.00	
18		18.92	
1		1.10	
3		3.60	

#7

Engine



MAINTENANCE & SERVICE HISTORY

Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
1 B-4/38 Cyl		gradual	1 A-2351 fiber wear washer, 1 A-2230 hub decal, 2 A-1957 blade decal, 6 A-3150-1 roll pins	
2 A-4327			balance into.	
The following test data information was obtained on the propeller tach & balance stand after assembly				
Blade 1 LP 12		1° HP 26.0°	Radius is 38", Dia is 76"	
" 2 " 12		1° " 26.0°	Track checked (OK)	
Propeller balanced (OK) Horizontally using 1 ot mount 45 A-4327 balance wts. Propeller balanced (OK) vertically using 1 cancelled wt. See back of log book for maintenance				

NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

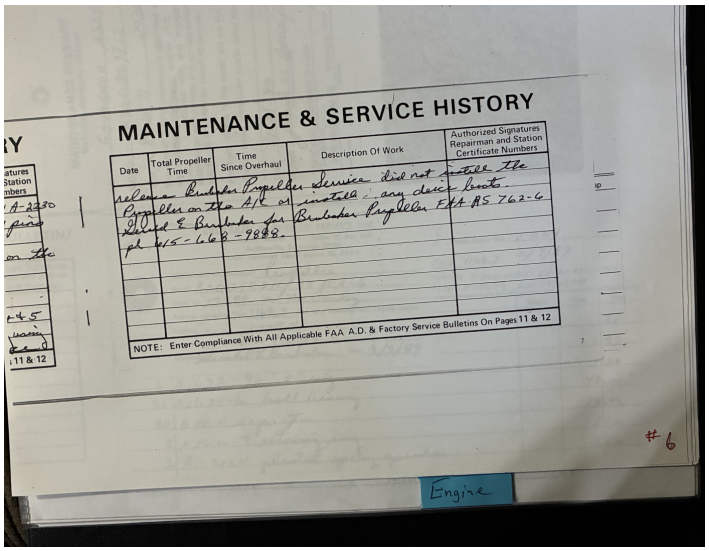
MAI

Date	Tot
release Propell Brubak pl 4/5

NOTE: En

#5

Engine



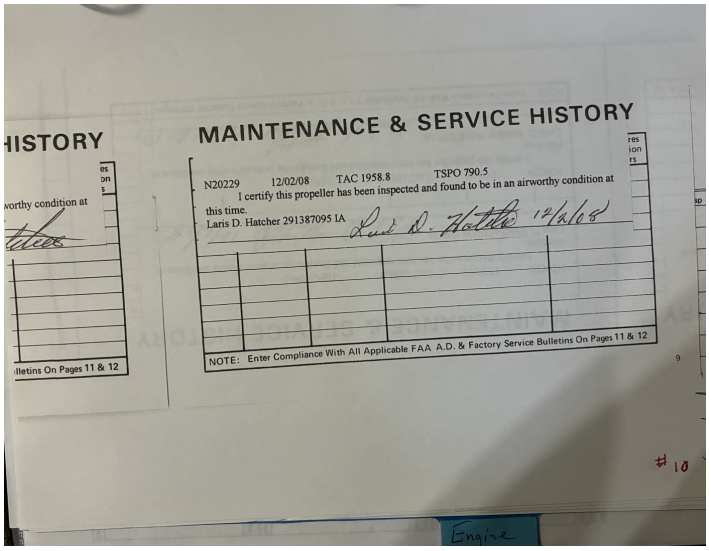
MAINTENANCE & SERVICE HISTORY

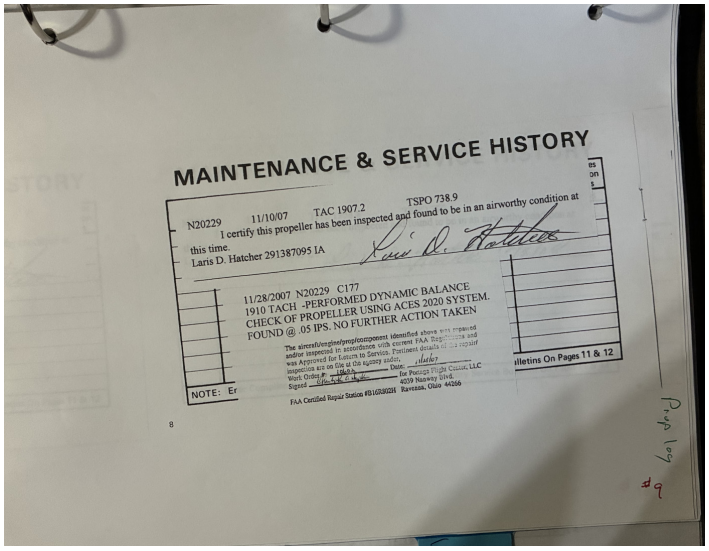
Date	Total Propeller Time	Time Since Overhaul	Description Of Work	Authorized Signatures Repairman and Station Certificate Numbers
release Propellers Brubaker Propeller Service did not install the on the A/C or installed any deice boots. Brubaker Propeller FAA RS 762-6 pl 4/5-668-9888.				

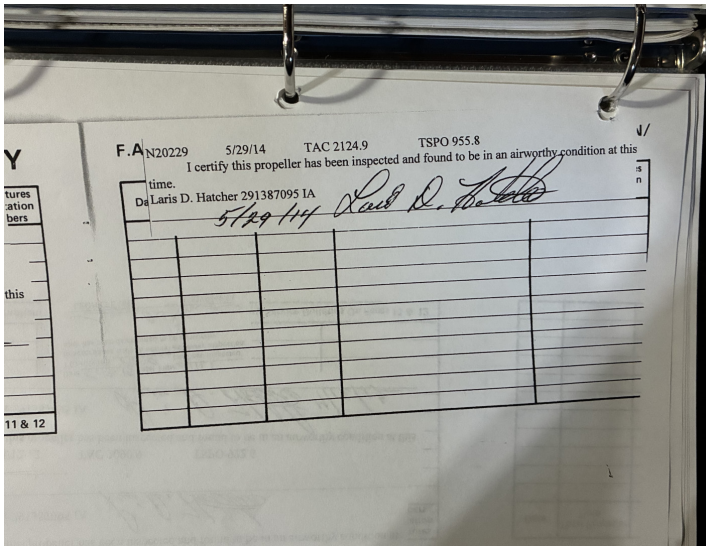
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12

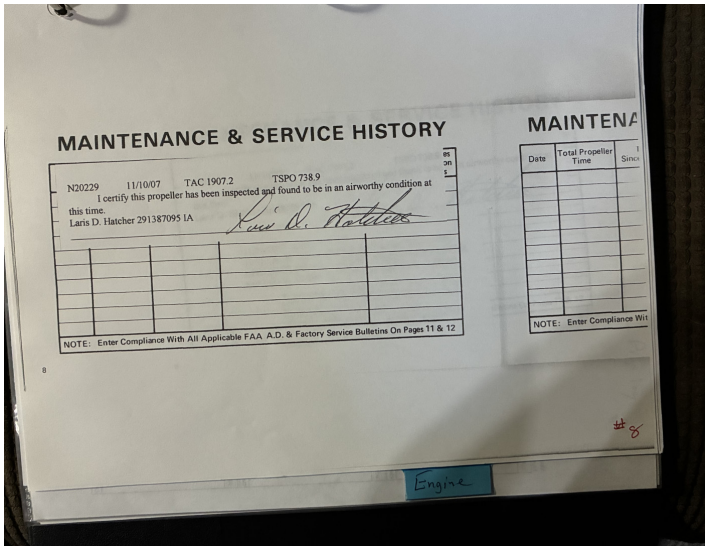
#6

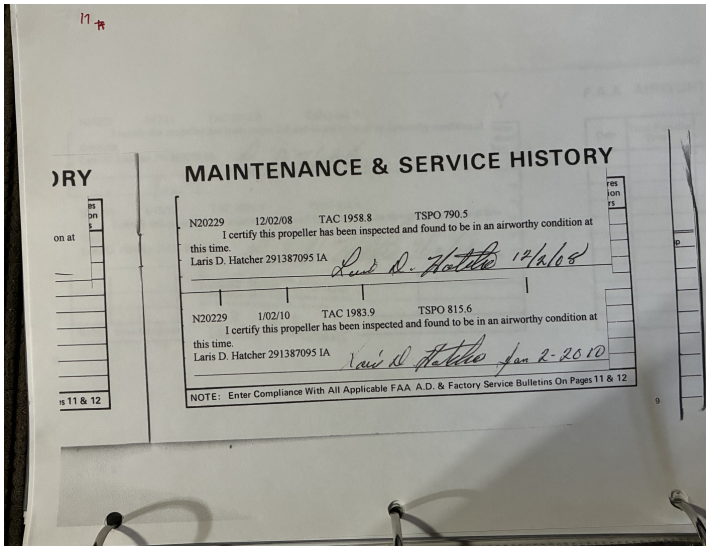
Engine

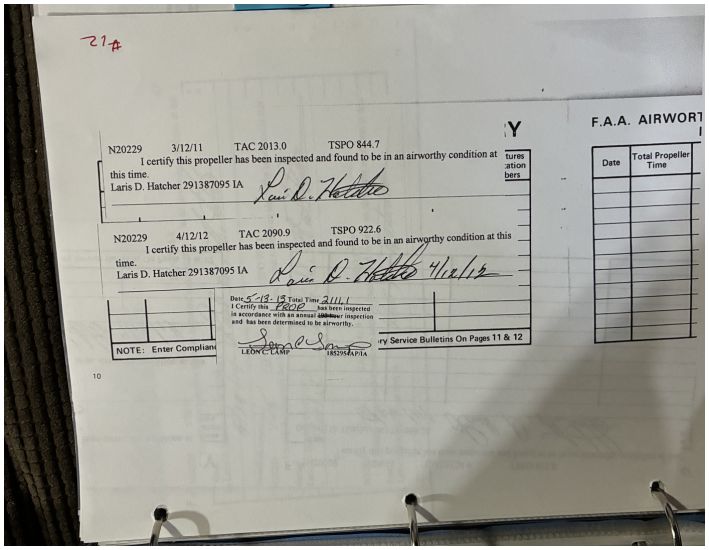

MAINTENANCE & SERVICE HISTORY
N20229 12/02/08 TAC 1958.8 TSPO 790.5
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher 12/2/08
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12
#10
Engine

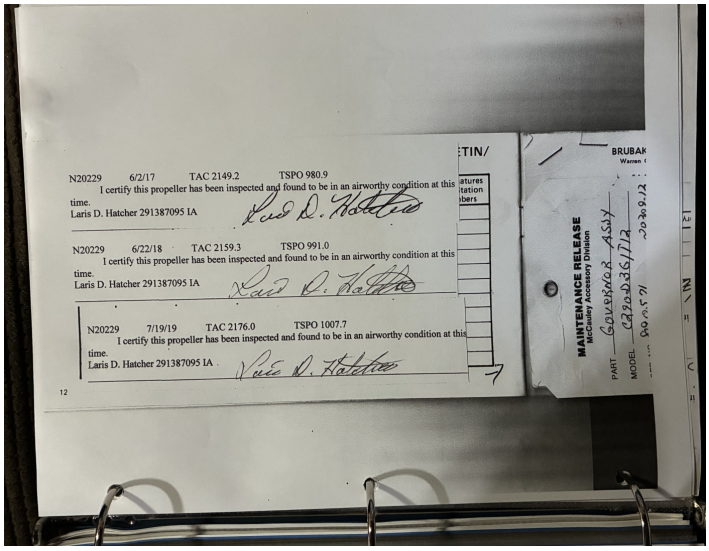

MAINTENANCE & SERVICE HISTORY
N20229 11/10/07 TAC 1907.2 TSPO 738.9
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher
11/28/2007 N20229 C177
1910 TACH -PERFORMED DYNAMIC BALANCE
CHECK OF PROPELLER USING ACES 2020 SYSTEM.
FOUND @ .05 IPS. NO FURTHER ACTION TAKEN
FAA Certified Repair Station #B16R201I Ravenna, Ohio 44266
#9


F.A
N20229 5/29/14 TAC 2124.9 TSPO 955.8
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
5/29/14
Lari D. Hatcher


MAINTENANCE & SERVICE HISTORY
N20229 11/10/07 TAC 1907.2 TSPO 738.9
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12
MAINTENA
Date
Total Propeller Time
NOTE: Enter Compliance Wit
#8
Engine


MAINTENANCE & SERVICE HISTORY
N20229 12/02/08 TAC 1958.8 TSPO 790.5
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher 12/2/08
N20229 1/02/10 TAC 1983.9 TSPO 815.6
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D Hatcher Jan 2-2010
NOTE: Enter Compliance With All Applicable FAA A.D. & Factory Service Bulletins On Pages 11 & 12


N20229 3/12/11 TAC 2013.0 TSPO 844.7
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher
N20229 4/12/12 TAC 2090.9 TSPO 922.6
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
Lari D. Hatcher 4/12/12
Date 5-13-13 Total Time 2111.1
I Certify this PROP has been inspected in accordance with an annual inspection and has been determined to be airworthy.
LEON C. LAMP
F.A.A. AIRWORT
Date
Total Propeller Time



N20229 6/2/17 TAC 2149.2 TSPO 980.9
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

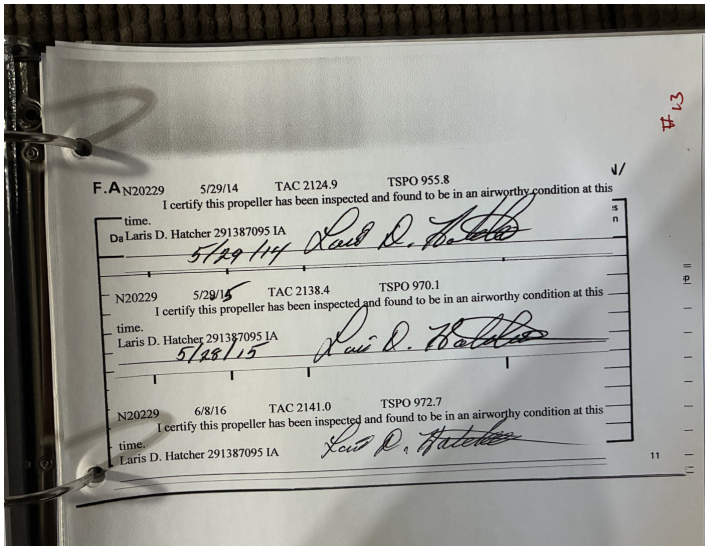
N20229 6/22/18 TAC 2159.3 TSPO 991.0
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

N20229 7/19/19 TAC 2176.0 TSPO 1007.7
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

MAINTENANCE RELEASE

PART

MODEL

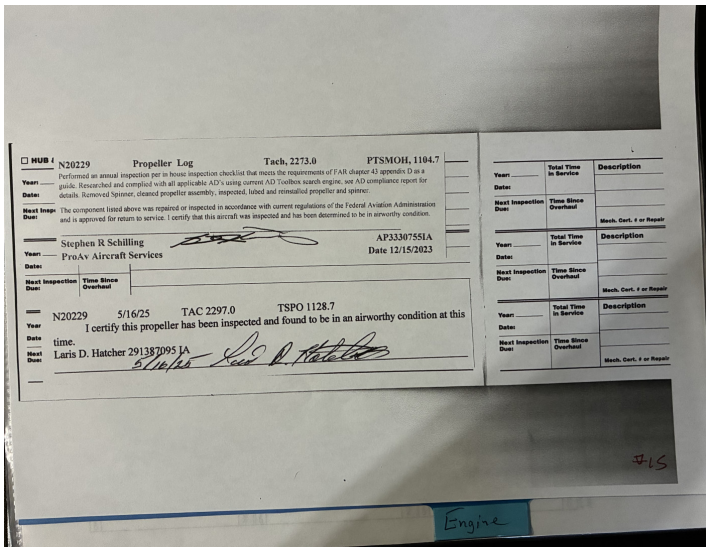


F.A N20229 5/29/14 TAC 2124.9 TSPO 955.8
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Da Laris D. Hatcher 291387095 IA
5/29/14

N20229 5/29/15 TAC 2138.4 TSPO 970.1
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
5/28/15

N20229 6/8/16 TAC 2141.0 TSPO 972.7
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA

11



HUB

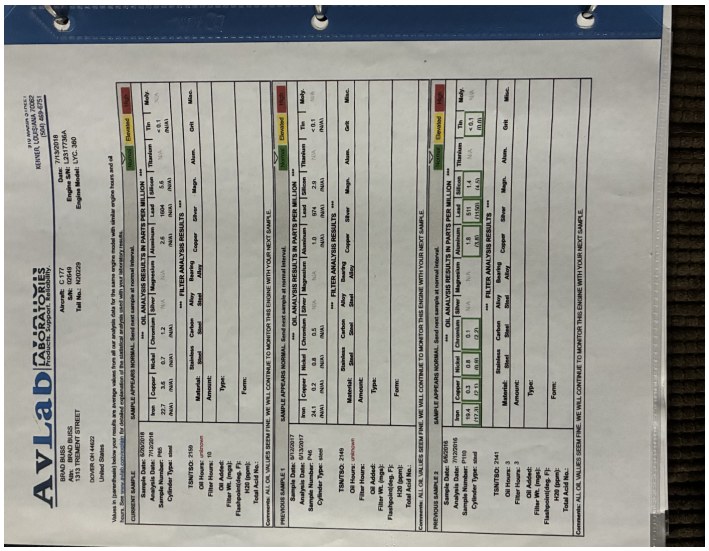
N20229 Propeller Log Tach, 2273.0 PTSMOH, 1104.7
Performed an annual inspection per in house inspection checklist that meets the requirements of FAR chapter 43 appendix D as a guide. Researched and complied with all applicable AD's using current AD Toolbox search engine, see AD compliance report for details. Removed Spinner, cleaned propeller assembly, inspected, lubed and reinstalled propeller and spinner.
The component listed above was repaired or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. I certify that this aircraft was inspected and has been determined to be in airworthy condition.
Stephen R Schilling
ProAv Aircraft Services
AP3330755IA
Date 12/15/2023

Year / Date / Next Inspection Due: Time Since Overhaul

Year / Date / Next Due: Total Time in Service / Time Since Overhaul / Description / Mech. Cert. # or Repair

N20229 5/16/25 TAC 2297.0 TSPO 1128.7
I certify this propeller has been inspected and found to be in an airworthy condition at this time.
Laris D. Hatcher 291387095 IA
5/16/25

Engine



AVLAB LABORATORIES
OIL ANALYSIS RESULTS
910 MARIA STREET
KEWEN, LEGISLATIVE ASSEMBLY (306) 480-4571

BRAD BUSS
Attn: BRAD BUSS
1313 TREMENT STREET
DOVER OH 44622
United States

Aircraft: C 177
SN: 03548
Tail No.: N20229-S

Date: 7/15/2016
Engine S/N: LTA-776A
Engine Model: LYC 360

Values in (parentheses) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com/radar for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Sample Date: 8/20/2018	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 7/15/2016	27.3	3.4	0.2	0	0	0	1	2	3	0	<5.1	N/A
Sample Number: P46	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2159
Oil Hours: unknown
Filter Hours: 10
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

PREVIOUS SAMPLE 1 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 9/13/2017	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 8/20/2018	24.1	4.2	0.2	0	0	0	1	1.8	3	0	<5.1	N/A
Sample Number: P46	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2148
Oil Hours: unknown
Filter Hours:
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

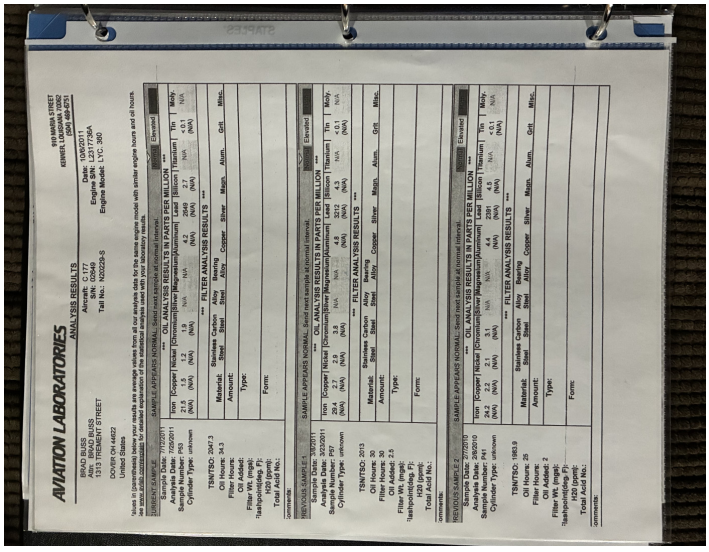
PREVIOUS SAMPLE 2 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 8/5/2015	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 9/13/2017	19.4	4.3	0.8	0.1	0	0	1	1.8	3.1	0	<5.1	N/A
Sample Number: P109	(17.2)	(4.1)	(0.5)	(0.2)				(1.9)	(3.0)		(0.0)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2141
Oil Hours: 3
Filter Hours: 3
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:



AVIATION LABORATORIES
OIL ANALYSIS RESULTS
910 MARIA STREET
KEWEN, LEGISLATIVE ASSEMBLY (306) 480-4571

BRAD BUSS
Attn: BRAD BUSS
1313 TREMENT STREET
DOVER OH 44622
United States

Aircraft: C 177
SN: 03548
Tail No.: N20229-S

Date: 10/6/2011
Engine S/N: L231778A
Engine Model: LYC 360

Values in (parentheses) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com/radar for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Sample Date: 3/22/2017	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 5/24/2013	38.5	1.5	1.8	2.5	N/A	N/A	4	2	4.2	N/A	2.1	N/A
Sample Number: P48	(28.0)	(1.3)	(1.6)	(2.6)			(4.0)	(2.0)	(4.5)		(0.0)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2111.1
Oil Hours: 20
Filter Hours: 20
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

PREVIOUS SAMPLE 1 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 10/27/2017	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 3/22/2017	34.6	2.2	1.3	2.5	N/A	N/A	4.5	3.4	3750	3.1	<5.1	N/A
Sample Number: P43	(20.7)	(0.6)	(1.0)	(1.8)			(4.0)	(2.2)	(4497)	(3.8)	(0.0)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2099.9
Oil Hours: 50
Filter Hours:
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

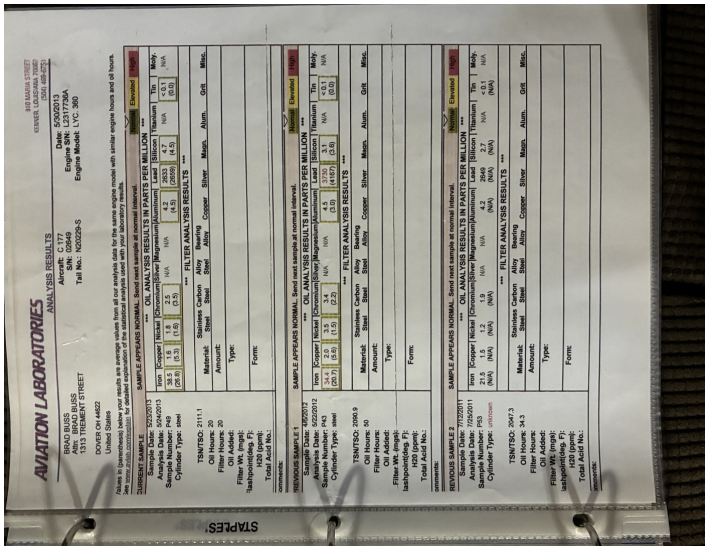
PREVIOUS SAMPLE 2 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 7/15/2011	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 10/6/2011	31.6	2.3	1.4	2.1	N/A	N/A	4.1	2.2	4.3	N/A	2.2	N/A
Sample Number: P53	(N/A)	(N/A)	(N/A)	(N/A)			(N/A)	(N/A)	(N/A)		(N/A)	
Cylinder Type: unknown												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2047.3
Oil Hours: 34.3
Filter Hours:
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:



AVIATION LABORATORIES
OIL ANALYSIS RESULTS
910 MARIA STREET
KEWEN, LEGISLATIVE ASSEMBLY (306) 480-4571

BRAD BUSS
Attn: BRAD BUSS
1313 TREMENT STREET
DOVER OH 44622
United States

Aircraft: C 177
SN: 03548
Tail No.: N20229-S

Date: 5/30/2013
Engine S/N: LTA-776A
Engine Model: LYC 360

Values in (parentheses) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours. See www.avlab.com/radar for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Sample Date: 5/24/2013	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 3/22/2017	38.5	1.5	1.8	2.5	N/A	N/A	4	2	4.2	N/A	2.1	N/A
Sample Number: P48	(28.0)	(1.3)	(1.6)	(2.6)			(4.0)	(2.0)	(4.5)		(0.0)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2111.1
Oil Hours: 20
Filter Hours: 20
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

PREVIOUS SAMPLE 1 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 3/22/2017	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 10/27/2017	34.6	2.2	1.3	2.5	N/A	N/A	4.5	3.4	3750	3.1	<5.1	N/A
Sample Number: P43	(20.7)	(0.6)	(1.0)	(1.8)			(4.0)	(2.2)	(4497)	(3.8)	(0.0)	
Cylinder Type: steel												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2099.9
Oil Hours: 50
Filter Hours:
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:

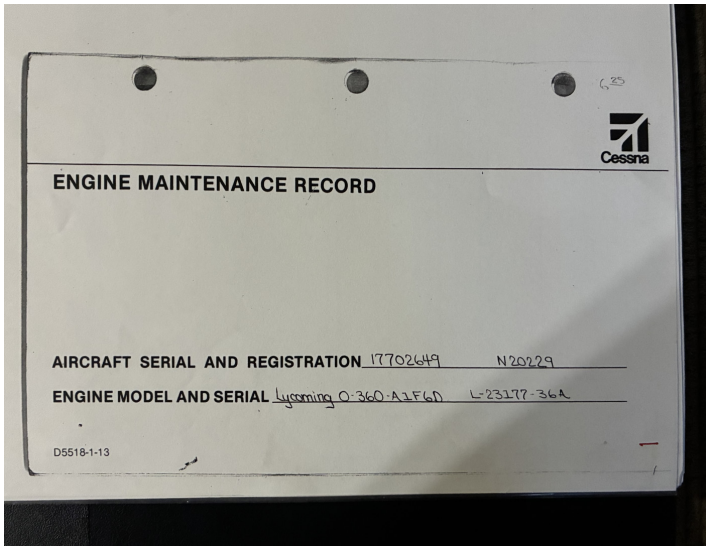
PREVIOUS SAMPLE 2 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal / Elevated / High

Sample Date: 7/15/2011	Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
Analysis Date: 10/6/2011	31.6	2.3	1.4	2.1	N/A	N/A	4.1	2.2	4.3	N/A	2.2	N/A
Sample Number: P53	(N/A)	(N/A)	(N/A)	(N/A)			(N/A)	(N/A)	(N/A)		(N/A)	
Cylinder Type: unknown												

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										
Type:										
Form:										

TSN/TSO: 2047.3
Oil Hours: 34.3
Filter Hours:
Oil Added:
Filter Wt. (mgs):
Flashpoint/deg.F):
Total Acid No.:
comments:



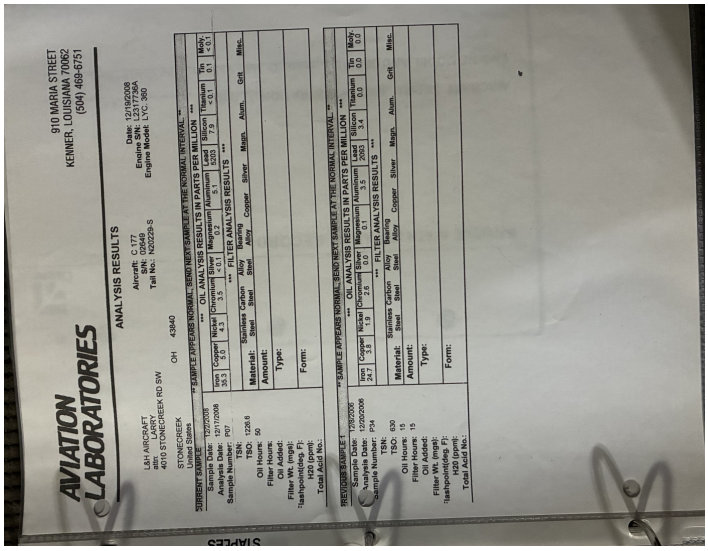
Cessna

ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION 17702649 N20229

ENGINE MODEL AND SERIAL Lycoming O-360-A1F6D L-23177-36A

D5518-1-13



910 MARIA STREET
KENNER, LOUISIANA 70062
(504) 469-5751

AVIATION LABORATORIES

ANALYSIS RESULTS

Date: 12/19/2006
Aircraft: C 177
SN: 17702649
Engine SN: L-23177-36A
Tail No.: N20229-S
Engine Model: LYC 360

L&H AIRCRAFT
attn: LARRY
4010 STONECREEK
STONECREEK
OH 43840

CURRENT SAMPLE — ** SAMPLE APPEARS NORMAL. SEND NEXT SAMPLE AT THE NORMAL INTERVAL **

Sample Date: 12/5/2006 — Analysis Date: 12/7/2006 — Sample Number: P07 — TSN: 1238.6 — TSO: 50 — Oil Added: — Filter Hours: — Filter Wt. (mgs): — Flashpoint(deg F): — H20 (ppm): — Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Titanium	Tin	Moly
39.5	5.8	4.3	3.5	1.1	0.2	5393	7.9	<0.1	6.1	<0.1

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										

Type:

Form:

PREVIOUS SAMPLE 1 — ** SAMPLE APPEARS NORMAL. SEND NEXT SAMPLE AT THE NORMAL INTERVAL **

Sample Date: 12/5/2006 — Analysis Date: 12/20/2006 — Sample Number: P04 — TSN: — TSO: 630 — Oil Hours: 15 — Filter Hours: 15 — Oil Added: — Filter Wt. (mgs): — Flashpoint(deg F): — Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

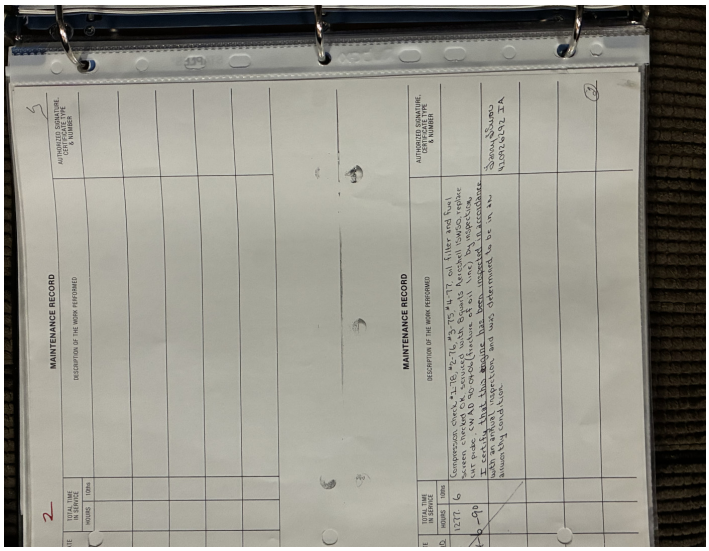
Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly
27.1	2.8	0.0	0.0	0.1	0.1	3.5	2993	9.4	0.0	0.0	0.0

*** FILTER ANALYSIS RESULTS ***

	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Material:										
Amount:										

Type:

Form:



MAINTENANCE RECORD

DATE	DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	TOTAL TIME IN SERVICE: HOURS	TOTAL TIME IN SERVICE: 100ths
12-19-06	Compression check #1 76/80 #2 75/80 #3 77/80 #4 77/80 oil filter and fuel screen. Found no contamination. Drained oil sump. Removed oil filter. Installed new Champion CH48108-1 oil filter. Serviced with 8 qts Aeroshell 15W50. replace cut plug. Ran up engine to operating temperature and checked for oil leaks. Found no leaks. Performed 50 hr inspection. I certify that this engine has been inspected in accordance with an approved annual inspection system and is approved for return to service.	Brian Sharp A&P 4192432 IA	1277	6



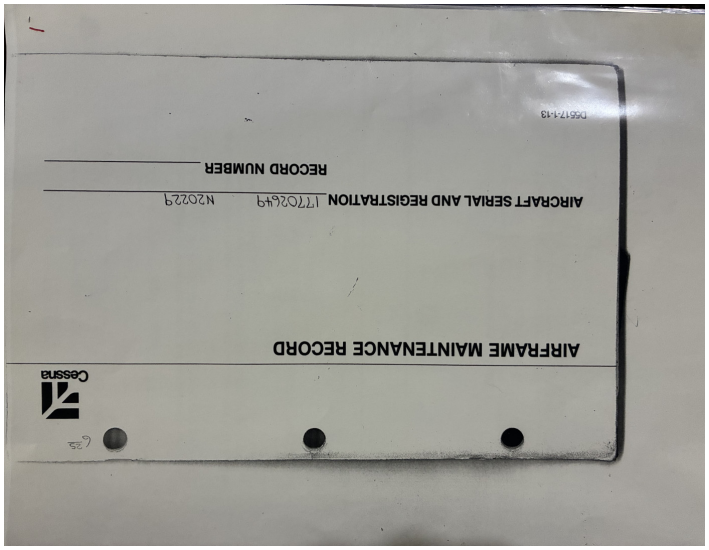





cardinal II


cessna
N20229


cardinal II


RECORD NUMBER
AIRCRAFT SERIAL AND REGISTRATION
AIRFRAME MAINTENANCE RECORD
cessna

Interior









Avionics


N20229
APOLLO


LORAN-C NOT APPROVED FOR IFR
CHECK LIST GUIDE
APOLLO


KMA 20TSO
APOLLO
VOLUME
SQUELCH
ISOCOM
PUSH HDG/STB


KMA 20TSO
APOLLO
VOLUME
SQUELCH
ISOCOM
PUSH HDG/STB


KX 155 TSO
UNIT IS INOP
APOLLO
REPLY
ID
TEST
RPM
MANIFOLD
HOURS
3125
CARB HEAT
FULL ON
THROTTLE
PUSH OPEN
PROP RPM
PUSH INCREASE
WARNING
NOSE UP


VOLUME
SQUELCH
ISOCOM
OFF
BEFORE TAKE OFF
BEFORE LANDING
AFTER LANDING
Cessna 1977
Cardinal
CESSNA MODEL 177B