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**AIRCRAFT
MAINTENANCE
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SYSTEM**

Book 2

**ENGINE
MAINTENANCE
RECORDS**

Flight Support & Logistics, LLC.
7411 S Airport Road
Pembroke Pines, FL 33023

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Phone 1-786-357-1609



Date: 09/14/2022 N9646B Cessna 172 RG SN: 172RG0942 TECH: 5862.1
Engine Lycoming O-360-F1A6 SN: RL-32424-36A Engine Continues Repair ETTSN:5862.1 ESMOH:860.0

On this day investigate no oil pressure condition on above identified engine. Removed oil pan sump screen and found multiple pieces of metal. Removed all accessories from engine, Removed oil pan and rear engine accessory case. Found oil pump housing and pump cracked. Removed oil pump and found main gear & pump drive split broken. Inspected engine accessory case and found deep scoring in oil pump housing. Removed all cylinders from engine and connecting rods found connecting rods bearings scored. Discarded old bearings and connecting rods bolts. Removed all engine accessories drive gears and preformed NDT inspection at CEU.INC all drive gears found to be defective. Inspected Connecting rod journals and polished as necessary. Mike journals after polish, found all journals to be within serviceable limits. Replaced all connecting rod bearings and bolts with new ones, torqued connecting rods bolts as per Lycoming OVH manual spec .Reinstalled original cylinders at their original location with new gaskets, torqued cylinders as per OVH manual spec .Installed replacement accessories gears, replaced crankshaft gear and installed new locking plate and bolt, torqued as per OVH manual spec. Reinstalled replacement engine accessories case on the engine and oil sump with new gaskets . Reinstalled all engine accessories with new gaskets. Timed engine magnetos as per engine specification 25 DBTC. List of parts installed in this engine during this repair: (8) SL13521A Conn rod Bering, (8) SL12186 Conn Rod nut, (8) SL18661 Push Rod Seal, (4) SL71481 O-Ring, (1) SL18109A-S oil Pump Impeller kit,(1) SL61174A oil Pump drive Shaft, (1) SL-STD-2213 crankshaft bolt, (1)SL10332 lock plate, (1) 75072 Gear ASSY, (1) 13S19646M Crankshaft Gear, (4) SL71973 Intake gasket,(4) SL77611 Exhaust Gasket,(1) LW10342 oil pump housing,(1) LW760960 rear engine Accessories case.(1) CH48110-2 oil filter. Serviced engine with 8 QTS of Aeroshell 100W oil. Engine is ground run after repairs and found to be operating within limits, observed for oil & fuel leaks at this time, none found. All parts to accomplish this repair supplied by CEU.INC

Used Lycoming Direct drive overhaul manual as guide to accomplish this repairs, Rev # 60294-7-14
Engine is approved for return to service at this time

Ranko Arsic 3593566 A&P

MAINTANANCE RELEASE: The aircraft and or article identified above was repaired or inspected with reference to current mfg. service information and FARs. The work performed is airworthy and Approved for return to Service. Pertinent details are on file with Flight Support & Logistic, LLC

ENGINE ANNUAL INSPECTION RECORD ENTRY

DATE: 11/02/2022 ENG. MOD.: LYCOMING O-360-F1A6 S/N RL-32424-36A A/C REG. N9646B ETT: 5896.5 ETSOH: 860.0 TACH: 5896.5

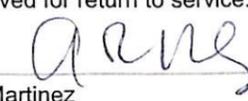
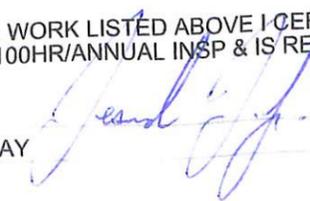
Performed an Engine Annual Inspection IAW FAR Part 43 App. (D) and Cessna 172 RG Service Manual. Engine warming and performed an engine cylinders compression test: #1=78, #2=76, #3=78, #4=80, drain oil and removed oil filter, Engine was removed from Aircraft due to oil sump broken bolt and oil leak, reinstalled after repair and refill with Aeroshell W100 Plus engine oil (8 qts.) and installed a new oil filter P/N AA48110-2, all engine control were visually inspected, lube and check for free movement, all spark plugs were cleaned, re-gaped, tested and reinstalled on swapped position, removed a RH magneto as per Lycoming Service Bulletin SB # 637, P/N 4371, S/N 19071017/K05260 (OFF), P/N 4371, S/N K-09481 (ON), engine running and check engine performance and oil and fuel leaks. I certify that this Engine has been Inspected and found to be in Airworthy Condition and is Approved for return to service.

Jorge L. Trigos

FAA Cert. 3671397

SUB-TOTALS this page

TOTALS-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				 <p>Atlantis Maintenance Services LLC 1602 SW 77 Ave Pembroke Pines FL 33023 954-962-5531</p> <p>Make: Lycoming Model: O-360-F1A6 Tail: N9646B S/N: RL-32424-36A</p> <p>Hours: TACH: 5992.5 HOBB:3646.9 ETSO: 956.0 ETT:5,992.5</p> <p>Performed an Engine 100 Hour Inspection IAW FAR Part 43 (D) and Cessna 172 RGService Manual. Run up engine to warm and performed a Cylinder compression check#1=73 psi #2=72 psi #3=72 psi #4=79 psi. Drained oil and removed oil filter refill with Aeroshell W100 plus 8 Qts. and installed new oil filter P/N CH48110-1. All sparks plug were removed cleaned re-gapped tested and re-installed back on swapped positions. All engine controls were cleaned, lube and check for free movement fuel filter was removed cleaned and reinstalled. Searched AD's thru Bi-weekly, 2023-06. Engine ran no leaks noted, Ops check good. I certify that this Engine has been inspected and found in Airworthiness condition and is approved for return to service.</p> <p>Signed:  Name: Andres R. Martinez Cert: 2672859 A&P Date: 03/13/2023</p>
				 <p>Atlantis Maintenance Services LLC 1602 SW 77 Ave Pembroke Pines FL 33023 954-962-5531</p> <p>Make: Lycoming Model: O-360-F1A6 Tail: N9646B S/N: RL-32424-36A</p> <p>Hours: TACH: 6091.2 HOBB: 3768.2 ETSOH:1054.6 ETT: 6,091.1</p> <p>Performed an Engine 100 Hour Inspection IAW FAR Part 43 (D) and Cessna 172 RG Service Manual. Run up engine to warm and performed a Cylinder compression check#1=72 psi #2=70 psi #3=74 psi #4=79 psi. Drained oil and removed oil filter refill with Aeroshell W100 plus 8 Qts. and installed new oil filter P/N CH48110-1. All sparks plug were replaced QTY 8 P/N: REM38E. Replaced Fuel/Mixture Control P/N: MC600-72. All engine controls were cleaned, lube and check for free movement fuel filter was removed cleaned and reinstalled. Searched AD's thru Bi-weekly, 2023-18. Engine ran no leaks noted, Ops check good. I certify that this Engine has been inspected and found in Airworthiness condition and is approved for return to service.</p> <p>Signed:  Name: Yared Palacio Cert: 4302786 A&P Date: 08/09/2023</p>
				 <p>Atlantis Maintenance Services LLC 1602 SW 77 Ave Pembroke Pines FL 33023 954-962-5531</p> <p>Make: LYCOMING Model: O-360-F1A6 Tail: N9646B S/N: RL-32424-36A</p> <p>Hours: TACH:6150.3 ETT: 6150.2 TSMOH:1113.7</p> <p>PERFORMED 100HR/ANNUAL INSP IAW FAR PART 43 APPENDIX D & CESSNA 172RG SERVICE MANUAL. C/W ALL SERVICE AND INSP GUIDELINES SET FORTH IN CHAP 2 OF SERVICE MANUAL. C/W COMPRESSION CHECK #1) 72, #2) 74 #3) 74 #4) 76 /80 PSI. C/W OIL CHANGE. R&R OIL FILTER INSTALLED NEW FILTER P/N CH48110-1 SERVICED OIL SYSTEM WITH 8 QTS AEROSHELL 100 PLUS. RETORQUED OIL FILLER NECK. INSTALLED NEW BOLTS ON LOWER LH & RH ENGINE SHOCK MOUNTS. NO AD'S DUE AT DATE OR TIME. OPERATIONAL CHECKS GOOD.</p> <p>WITH RESPECT TO THE WORK LISTED ABOVE I CERTIFY THAT THIS ENGINE HAS BEEN INSP WITH THE SCOPE & DETAIL OF A 100HR/ANNUAL INSP & IS READY FOR SERVICE.</p> <p>Signed:  Name: DESMOND GRAY Cert: 3622985 A&P/IA Date: 12/09/2023</p>

REG#: N9646B A/C TT: 14346 DATE: 01 OCT 2019 WO: 2019 00555

LENG: 186.9 LETSMOH: 186.9 LPROP: 1347.8 LPTSMOH: 1347.8

AD 83-14-04 Muffler Inspection complied with. No defects noted at this time. This Aircraft is approved for return to service with respect to the work performed.

Jimmy Garcia
A&P 3546366 IA

TOTAL TIME SINCE VERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page		
		REG#: N9646B A/C TT: 14297 DATE: 29 JAN 2019 WO: 2019 00050
		LENG: 137.9 LETSMOH: 137.9 LPROP: 1298.8 LPTSMOH: 1298.8
		50 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual. No oil sample taken. Installed new filter P/N CH48110-1. Service engine with 7 qts. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. No defects noted at this time. Ran engine, leak checked good. For pertinent details of this inspection, see CAU RMC Work Order #2019 00050. This Engine is approved for return to service with respect to the work performed. <i>Rob Arneson</i> Rob Arneson A&P 3178022
		REG#: N9646B A/C TT: 14348.8 DATE: 02 OCT 2019 WO: 2019 00557
		LENG: 189.7 LETSMOH: 189.7 LPROP: 1350.6 LPTSMOH: 1350.6
		Tach: 5191.8 Eng. SMOH: 1350.6
		Annual/100 hour inspection complied with IAW Cessna Model 172RG Maintenance Manual and 14CFR 43, appendix (D). Next Annual due date Oct 2020. Perform compression: #1-80/80, #2-75/80, #3-80/80, #4-80/80. Drain engine oil, installed new filter p/n CH48110-1 and cleaned engine suction screen. Cut oil filter and inspected for metal and foreign matter. No visible metal found at this time. Service engine with 7 qtrs. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. Next due 5241.8. No new AD's as of this date. This engine is approved for return to service with respect to the work performed. <i>Gabriel Ramirez</i> Gabriel Ramirez A&P 3130276 IA
		REG#: N9646B A/C TT: 14395.8 DATE: 28 JAN 2020 WO: 2020 00053
		LENG: 236.7 LETSMOH: 236.7 LPROP: 1397.6 LPTSMOH: 1397.6
		Tach: 5239.0 Engine SMOH: 1397.8
		50 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual. No oil sample taken. Installed new filter P/N CH48110-1. Service engine with 7 qts. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. No defects noted at this time. Next due in 50 hours. Ran engine, leak checked good. This Engine is approved for return to service with respect to the work performed. <i>Gabriel Ramirez</i> Gabriel Ramirez A&P 3130276

SUB-TOTALS this page
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DATE	REG#: N9646B A/C TT: 14446 DATE: 01 JUL 2020 WO: 2020 00351	RMED— PERFORMING WORK
	LENG: 286.9 LETSMOH: 286.9 LPROP: 1447.8 LPTSMOH: 42.0	
	Tach: 5269.1 Eng SMOH: 287.0	
	100 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual and 14CFR 43, appendix (D). Perform compression check: #1-70/80, #2-70/80, #3-70/80, #4-70/80. Drained engine oil, inspected oil suction screen, cut oil filter and inspected. Installed new oil filter P/N CH48110-1, serviced with 7 qts of Aeroshell 100W Plus. Replaced induction air filter, P/N BA-5805. I certify this engine in airworthy condition and is approved for return to service with respect to the work performed. <i>Gabriel Ramirez</i> Gabriel Ramirez A&P 3130276 IA	
	REG#: N9646B A/C TT: 14492.5 DATE: 22 JUL 2020 WO: 2020 00402	
	LENG: 333.4 LETSMOH: 333.4 LPROP: 1494.3 LPTSMOH: 88.5	
	Tach: 5335.6 Engine SMOH: 1494.4	
	50 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual. No oil sample taken. Installed new filter P/N CH48110-1. Service engine with 7 qts. of Aeroshell 100w plus. AD 83-14-04 Muffler Inspection complied with. No defects noted at this time. Next due in 50 hours. Ran engine, leak checked good. This Engine is approved for return to service with respect to the work performed. <i>Phillip Bogert</i> Phillip Bogert A&P 3220274	
	REG#: N9646B A/C TT: 14544.3 DATE: 31 AUG 2020 WO: 2020 00492	
	LENG: 385.2 LETSMOH: 385.2 LPROP: 1546.1 LPTSMOH: 140.3	
	Tach: 5387. Eng SMOH: 385.1	
	100 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual and 14CFR 43, appendix (D). Perform compression check: #1-76/80, #2-77/80, #3-75/80, #4-75/80. Drained engine oil, inspected oil suction screen, cut oil filter and inspected. Installed new oil filter P/N CH48110-1, serviced with 7 qts of Aeroshell 100W Plus. Replaced induction air filter, P/N BA-5805. I certify this engine in airworthy condition and is approved for return to service with respect to the work performed. <i>Phillip Bogert</i> Phillip Bogert A&P 3220274	

SUB-TOTALS this page
TOTALS-Carry forward to next page

ENGINE MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N9646B

Engine Manufacturer Lycoming

Model D-360-F1A6

Serial No. RL-32424-36A

Date installed on aircraft _____

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

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



(All applicable information must be filled in)

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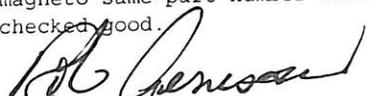
FAX: (631) 765-9359

ENGINE MAINTENANCE RECORD

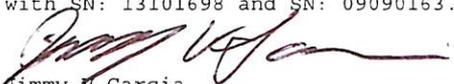
AIRCRAFT SERIAL AND REGISTRATION 172RG0942 N9646B

ENGINE MODEL AND SERIAL O-360-F1A6 RL-32424-36A

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		REG#: N9646B	A/C TT: 14256.8	DATE: 15 NOV 2018	WO: 2018 00386	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	
	HOURS	10TH						
			LENG: 97.7	LETSMOH: 97.7	LPROP: 1258.6	LPTSMOH: 1258.6		
			Pilot reported that the right magneto had an excessive drop: Trouble shot system and found the right magneto to have a loose internal magnet. Replaced old magneto p/n 4371 s/n 13101698 and installed new magneto same part number with s/n 18030850. Ran engine and magneto op's checked good.					
			 Rob Arneson A&P 3178022					
CLOSED OUT LOGBOOK REFER TO ADLOG #2								

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		REG#: N9646B A/C TT: 14208.8 DATE: 14 AUG 2018 WO: 2018 00243				AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS	LENG:	LETSMOH:	LPROP:	LPTSMOH:	
			49.7	49.7	1210.6	1210.6	
			Upon inspection of this engine. I found that the part numbers of both Magnetos do not match the original write up of Christiansen Aviation to the FAA form 8130-3. By inspection the part numbers to both Mags are 4371 with SN: 13101698 and SN: 09090163.				
			 Jimmy Garcia A&P 3546366 IA				
			REG#: N9646B A/C TT: 14218.1 DATE: 24 AUG 2018 WO: 2018 00261				
			59.0	59.0	1219.9	1219.9	
			50 hour inspection complied with in accordance with Cessna Model 172RG Maintenance Manual. Drained mineral engine oil. No oil sample take. Installed new filter p/n CH48110-1 and cleaned engine suction screen. Service engine with 7 qtrs. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. No defects noted at this time. Washed engine and cowls. Ran engine leak checked good. For pertinent details of this inspection, see CAU RMS work order #2018 00261. This Engine is approved for return to service with respect to the work performed.				
							

Gabriel Ramirez
A&P 3130276IA

REG#: N9646B A/C TT: 14250.9 DATE: 02 NOV 2018 WO: 2018 00352

LENG: 91.8 LETSMOH: 91.8 LPROP: 1252.7 LPTSMOH: 1252.7

Tach: 5093.9

Annual/100 hour inspection complied with IAW Cessna Model 172RG Maintenance Manual and 14CFR 43, appendix (D). Next Annual due date Nov 2019. Perform compression: #1-74/80, #2-70/80, #3-74/80, #4-74/80. Drain engine oil, installed new filter p/n CH48110-1 and cleaned engine suction screen. Cut oil filter and inspected for metal and foreign matter. No visible metal found at this time. Service engine with 8 qtrs. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. Next due 5143.9.

continue

REG#: N9646B A/C TT: 14250.9 DATE: 02 NOV 2018 WO: 2018 00352

LENG: 91.8 LETSMOH: 91.8 LPROP: 1252.7 LPTSMOH: 1252.7

No new AD's as of this date. For pertinent details of this inspection, see CAU RMS work order #2018 00352. This engine is approved for return to service with respect to the work performed.

Gabriel Ramirez
A&P 3130276 IA



DATE	TOTAL TIME IN SERVICE		REG#: N9646B A/C TT: 14250.9 DATE: 02 NOV 2018 WO: 2018 00352				AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS	LENG:	LETSMOH:	LPROP:	LPTSMOH:	
			91.8	91.8	1252.7	1252.7	
			Annual/100 hour inspection complied with IAW Cessna Model 172RG Maintenance Manual and 14CFR 43, appendix (D). Next Annual due date Nov 2019. Perform compression: #1-74/80, #2-70/80, #3-74/80, #4-74/80. Drain engine oil, installed new filter p/n CH48110-1 and cleaned engine suction screen. Cut oil filter and inspected for metal and foreign matter. No visible metal found at this time. Service engine with 8 qtrs. of Phillips 20W-50 X/C. AD 83-14-04 Muffler Inspection complied with. Next due 5143.9.				
			continue				
			REG#: N9646B A/C TT: 14250.9 DATE: 02 NOV 2018 WO: 2018 00352				
			91.8	91.8	1252.7	1252.7	
			No new AD's as of this date. For pertinent details of this inspection, see CAU RMS work order #2018 00352. This engine is approved for return to service with respect to the work performed.				
			Gabriel Ramirez A&P 3130276 IA				
							

Christiansen Aviation, Inc.
106 W. Piper Dr.
Tulsa OK 74132



Date: 5/04/2018 Engine: 0-360-F1A6 SN: RL-32424-36A TSMO: 0.0 ETT: UNK

Disassembled, cleaned, and inspected engine for routine overhaul. Sent steel to Rick Romans WO#48821, 52273, 52036, 52104 and Aircraft Specialties WO#225904, 247972, 230879. Sent case to Divco for inspection WO#114391. Engine was overhauled IAW Lycoming Direct Drive Overhaul Manual PN: 60294-7 and Lycoming SB 240W for replacement of all mandatory parts, installed four new Lycoming cyl kits PN: 05K21104, installed new rod bearings standard and main bearings M03, installed repaired steel. Supplied rebuilt slick 4373, and 4370 magnetos SN: 13101698, and SN: 09090163, new sky-tech 149-NL starter, eight new REM 38E sparkplugs, lifters, along with overhauled carburetor part # 10-5253 engine was not test ran. All pertinent Service bulletins, Service Instructions, and Airworthiness Directives where complied with, CW AD 96-09-10C by installation of carburized and nitrided oil pump gears and shaft no further action req. CW AD 2004-10-14C by inspection of crankshaft gear recess, dowel, crank gear, installing and torquing new crank gear bolt to 204inlb and locking retainer due again at sudden stoppage or prop strike, 2015-02-07 by use of Loctite 290 and peening set screw, and AD 2017-16-11 does not apply due to bushing type. All other AD's complied with to date see AD compliance sheet dated 05/04/2018 I certify this engine to be airworthy and ok for return to service.

Eric Pacicca A&P 3577035

