ENGINE LOG EF5-1

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ENGINE DESCRIPTION

MANUFACTURER	YCOMING		MODEL	145
SERIAL NUMBER	-30135 -48A	DATE OF MANU	JFACTURE	
RATED BHP		RPM	MANIFOLD PRESSURE	
FUEL REQUIRED OCTAN	E/PERFORMANCE			
REGISTERED OWNER				
STREET NO.				
CITY, STATE, ZIP				
REGISTERED OWNER				
		•		
CITI, SIAIE, ZIF				
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INSTALLATION RECORD

AIRPLANE	LOCATION	DATE INSTALLED	TOTAL HOURS AT INSTALLATION	DATE REMOVED	TOTAL HOURS AT REMOVAL	AGENCY CERT. NO.
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INSTALLATION RECORD

AIRPLANE	LOCATION	DATE INSTALLED	TOTAL HOURS AT INSTALLATION	DATE REMOVED	TOTAL HOURS AT REMOVAL	AGENCY CERT. NO.
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LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL.	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
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			62				<u>"</u> ,
	NAME OF PART						

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

NAME OF PART	PART NUMBER	SERIAL NUMBER	INSTALLATION DATE/HOURS	TIME ON PART AT INSTALL.	LIFE LIMIT OR T.B.O.	REMOVAL DATE/HOURS	AGENCY CERT. NO.
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	A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
	AD 2017-16-11	ROD ENDS	3.30.18	N/A P	ER ENG OH	SHOP	mpsh 2505759MP
	2015-19-07	fuer lines	1088.7	INSP	RECUR	1788.7	The Just Ap35327361A
	2012-19-01	Crankshaft	1688.7	MA Sh	/		M JA 1183530361A
	2012 - 03 -06	ful seno	1688.7	N/D P/W			Wh fat Dop 35322361A
	7009-07-03	hul; jachr	1688.7	MA-ch	NO 12		We let N.P 35323610
	2007-04-19RI	Cylinder	1688.7	MP PIN			W/ Int AIP 353013614
	7065-17-06	MPGAETO	1688.7	MIDDIN			The first 1.10 353223610
	2004-10-14	Prop strike	0 0 .	du sours	MA		The but DIP 353ET36 PD
	2004-05-24	Crak stati	1688.7	MA -ch	MOTA		The fat A.C 353223110
1	2003-14-03	fel pump	1688.7	MA M	N		A JA Der 353003610
	2002-19-03	Crackshaft	1688.7	MA P/			MA SA PIP 358 COOSE IA
(4)	2015-19-07	fuellier	1685.7	drive	RECIA	1788.7	for fet Pro 555023611
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A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
12/21/2016	1481.6	OPENED NEW U.S. LOGBOOKS AND CLOSED!
-		CANADIAN LOG BOOKS Whish 2850579 N

REGISTRATION: N204TV Lycoming IO-540-AE1A5 S/N: L-30135-48A HOBBS: 1481.6 ETT: 1481.6 DATE: 12/23/2016

- Cylinder compression checks yielded: cyl1) 78/80, cyl 2) 78/80, cyl 3) 78/80, cyl 4) 78/80, cyl 5) 76/80, cyl 6) 78/80. C/W AD 2015-19-07 as per MSB 342G.

C/W SI1080C, SI1129B, SI1191A.

I certify that this engine has been inspected IAW a Lycoming 100 hour inspection and at this time was determined to be in airworthy

Chad Saizan 3622453 AP Mall.

-			
	3/15/2017	1,524.8	no metal. New oil filter installed.
			no metal. New oil filter installed.
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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/2/17	1531,3	REMOVED ALTENATOR PIN# ALU-8521 5/N# 60 53486
		AND INSTALLED NEW ALTENATOR PINT SAME SINT H-Q 120630
		REFERENCE ROBINSON MM R44
		N204TV-S/JH L30135 48A LYCOMING ID540-AE1AS TT 1531.3
		I CENTIFY THIS FAILTE HAS BEEN REPAIRED IAW THE ABOUT
		REFERENCE AND DETERMINED TO BE IN AN AIRWORDHY CONDERSON
•		EB 3579084 A XP
5/11/17	1584.5	NOYTU S/N# 10723 RYYII REMOVED ENGINE ASSY
÷ 1		PINT IO-540-AEIAS SW# L-30/35-48A TI 1584.5
		TO FACILITATE OVERHAUL, IAW RUBINSON MM R44 SERIES
		SECTION 6,110 Der A+P3579084

DATE

120630

(4200)

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VID STEON

y ov wo

Date July 2, 2 overhaul. Eng work on reco Crankcase o/ cylinder Asse All new gaske Harness and gear and bolt Vernatherm. Engine test ri M Gmail

Re: work order #1402 re lycoming SB

1 message

Mark Young <mark@tropicairpower.com>
Reply-To: Mark Young <mark@tropicairpower.com>
To: Benjamin

tong@gmail.com>

Benjamin,

Work order #1402 Lycoming IO-540-AE1A5 s/n L-30135-48A is not effected by Lycoming MSB 362 per P/N. Superior Rod bushings were installed at MOH.

Truly
Mark Young Admin
www.tropicairpower.com

gaskets/hardware. Engine drained of oil after test run. Dehydrators installed. New oil filter installed. All engine open ports plugged/covered.

New ring gear installed on

Support hub. Alternator O/haul.

Mark Young Admir

Mark young

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
6		
120630		

TROPIC AIRPOWER

Quality Aircraft Engine Overhaul FAA Overhaul Repair Station T7KR187Y 20600 SW Citrus Blvd Indiantown, Florida Ph 561-964-8770

www.tropicairpower.com

Date July 2, 2017 Work Order# 1402 Engine; Lycoming IO-540-AE1A5 S/N L-30135-48A. This Engine/PowerPlant is zero time since Major overhaul. Engine has been test run successfully, is airworthy and approved for return to service. Eligibility is TBV by the installer. Details of work on record at this repair station. Major Overhaul of Engine: Crankshaft/counter weights o/hauled std/std. Rods, Rocker Arms O/Hauled. Crankcase o/hauled with New cylinder studs (Divco). New Lycoming Camshaft. New lifter bodies. New Main/Rod bearings. New Lycoming cylinder Assemblies. New piston pins. New Rocker shafts/thrust washers. New Rod bolts/nuts. New hardware throughout. New Thru-Studs. All new gaskets, seals, intake/drain back hoses, clamps, magneto cushion rubbers and locking devices. Magnetos Rebuilt, New Ignition Harness and sparkplugs. Fuel Servo, Distributor, Injectors O/hauled. New oil sump baffle. All parts cleaned, Inspected-NDT. New Crankshaft gear and bolt, oil pressure spring and ball. New Idler gears, New fuel pump plunger. New fuel pump and New oil drain-back tubes. New Vernatherm. New Silicon valve cover gaskets. B/C Starter O/hauled. New 67542 magneto bearings in crankcase. Two Oil Coolers O/hauled. Engine test run with Philips Anti-Rust 20w50 oil and Cortec 329. Oil filter cut open after test run, clean. New no blow exhaust gaskets/hardware. Engine drained of oil after test run. Dehydrators installed. New oil filter installed. All engine open ports plugged/covered. New ring gear installed on

Support hub. Alternator O/haul.

Mark Young Admin

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n		
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
REGISTR DATE: 7/	MATION: N204TV /12/2017	Lycoming IO-540-AE1A5 S/N: L-30135-48A HOBBS: 1584.5 ETT: 1584.5 TSMOH: 0
2. 3.	Dynamic balanced so Ground run and oper	rational check good with no defects.
Chad Sai	zan 3622453 AF	Old RSin
(
9/1/17	1,613.6	TSMOH 29.1 Engine oil drained and refilled
		opened, no metal found. New filter installed
	×	opened no metal found. New filter installed
		Endy In ATP 3120217
11/7/17	1640.4	TSMOH 560 Engine oil drained and refilled
	,	with 8 gts Acroshell Plus. Oil filter removed
		and opened, no netal Cound. New filter installed.
The state of the s		16 19 ATP 3170217
	,	0

 DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	.10
1/14/18)664.0	01/14/18 N2O7TV R44 Raven II S/N 10723 AFTT 1664.0 1. Complied with 100 hr/annual inspection referencing RHC MM RTR 460 Sect 2.400 and CFR Part 43 Appendix D. 2. Tail rotor drive shaft runout checks yielded: bay 2.005) bay 3.007) bay 4.008) bay 5.005) bay 6.005) 3. Sheave alignment L/H. 128 R/H. 108 4. Completed Lycoming S.I. 1191A Compression check of cylinders yielded: #1 79, #2 79, #3 80, #4 80, #5 79, #6 80 5 Completed 25 hr oil & filter change and performed Lycoming S.B 480F No defects noted. 6. Completed Lycoming S.B. 342F Fuel line inspection due every 100 hrs No defects noted. 7. Completed Lycoming S.B. 388C Valve guide clearance 100 hr initial No defects noted. 8. Completed Lycoming S.B. 643B, 653 & 663 inspection of ignition system No defects noted. 9. Completed Lycoming S.I. 1129B Inspection of alternator belt No defects noted. 10 Completed E.L.T. inspection TSO-C91a No defects noted. 11. Completed A.D. 07-26-12 Inspection of MRB at each 100 hr/annual No defects noted. 11. Completed A.D. 07-26-12 Inspection of MRB at each 100 hr/annual No defects noted. 12 Lectify that this aircraft has been inspected in accordance with the 100/annual inspection referencing RHC MM RTR 460 Sect. 2.400 and CFR part 43 Appendix D. and at this time was determined to be in an Airworthy Condition. David Wilson A&P# 3579084 Edwin Garner IA# WSD 444 Edwin Garner IA# 128 Inspection 1005 Edwin Garner IA# 1005 Edwin Garner IA# 1005	
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n,		INSPECTION OR MAINTENANCE PERFORMED	
DATE	TOTAL TIME	AGENCY & CERTIFICATE NO.	
DATE	1667.4	N204TV Robinson R44 Raven II S/N 102	723
1/24/2018	1001.4	Removed and replaced oil cooler center line assembly P/N D753-1 and heleft line assembly P/N D753-2. Removed elbows P/N MS20822-8 from left line and reinstalled with B270-6 sealant on threads. All work accordance with the Robinson R44 Maintenance Manual and Illustrated Catalog. Performed operational check of aircraft and found no defects a Mason Bryant A&P 3975276	nelicopter- eft and right mplished in I Parts at this time.
			•

	DATE	TOTAL TIME		INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	
	1/28/18	1668.5	<u>N204TV</u>	Robinson R44 Raven II	S/N 10723
opter- nd right shed in ts s time.	1/28/18	1668.5	Removed aft cowling fitting. Disconnected sealant on threads. IAW paragraph 6.3 cowling. Performed Removed and reparagraph and reparagraph sealant reparagraph sealan	Robinson R44 Raven II Total Time: 1668.5 Ing to access suspected leaking right have a RH inboard connection and removed. Reinstalled fitting and reconnected RI 20 of the Robinson R44 II Maintenance of operational check of aircraft and four inted both round blade tip covers P/N accomplished in accordance with the Rual, Illustrated Parts Catalog and AC 43	and oil cooler inboard d fitting to reapply B270-6 H inboard oil cooler line e Manual. Reinstalled aft and no defects at this time. C300-3 and reinstalled. All
					ų,

	TOTAL		INSPECTION OR MAINTENANC AGENCY & CERTIFICAT	E PERFORMED TE NO.
DATE	TIME	N204TV Robins	on R44 Raven II	S/N 10723
2/4/2018	1674.3	Date: 2/4/2018 Removed alternator P/N: new Hartzell FAA-PMA 24 approved for the Lycomir Company R44 II Maintena	Total Time: 1674, 3 ALU-8521-9 S/N: H-Q120 volt 70 amp alternator P ig IO-540 model engine IA ince Manual, Illustrated F ion No. 1129D. Operation	
DATE: 03	/19/2018	ycoming 10-540-AE1A5 S/N		79 ETT: 1679 TSMOH: 95

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
REGIST	RATION: N204TV	Lycoming IO-540-AE1A5 S/N: L-30135-48A HOBBS: 1679 ETT: 1679 DATE: 03/30/2018
1. 2.	Cylinder compression C/W AD 2017-16-11	on checks yielded: cyl1) 78/80, cyl 2) 78/80, cyl 3) 76/80, cyl 4) 76/80, cyl 5) 76/80, cyl 6) 76/80. I, N/A by s/n in table ! and verified with engine oh shop, p/n's not used in table 2.
3.	Removed and repla	ced fanwheel assy with newp/n: D174-2, balanced fan to .17 IPS IAW RHC MM.
Michae	el Krulac 2805759.	AP MAC
Date: 4/6	/18	
	•	25 Hour Oil Change. Per FAR part 43 in accordance with the Robinson Helicopter Company R44 manual,
N2041V S	ierial #10723 R44 II Helic	opter, engine oil was removed via sump quick drain and replaced with 8 quarts of Phillips X/C 20w50 Aviation
Oil. Helio	opter was then started to	o verify oil pressure within 30 seconds. Ground run was performed for a few minutes then shut down and
Hobbs 16	o leaks. Per 91.407, this 88.70. Airframe TT 1688.	s aircraft was then returned to service. 70, ETT 104.20, TSO 1688.70
	1	Benjamin Tong CP#3513619CFI
4/25/201	18	PERFCENTO 100 NR INSPECTION IOW RNC RYYT MX MAN
HOBBS-1	188.7	CHECKLIST. CYLINDAR COMPRESSION: \$179/80, 42 78/80 \$377
EN6 150-	104.2	EY 74/80 # 5 89/80, # 6 76/80. INSPECTED FUEL SCREENS, 5PAGE
		PLUGS, CHECKEDMAG TIMING. GW DO TOIS-19-67 BY INFRE
		NO DEFFECTS OBSERVED. INSTALLED NEW CAT PRUBE. OPS
		CHECK ON. I CERTIFY THIS ENGINE NOS BEEN INSPECT
		IN PCCORDANCE WITH A 100 NUR INSPECTION AND

INSPECTION & MAINTENANCE RECORD INSPECTION OR MAINTENANCE PERFORMED TOTAL AGENCY & CERTIFICATE NO. DATE WAS DETERMINED TO BE INDIRWEATHY COMPTHON. CONTINUED -2018 AIRCRAFT MAINTENANCE UNLIMITED, LLC. WATERFORD, MI 07/14/2018 ENGINE LOG ENTRY HOBBS: 1713.2 N204TV PERFORMED 50 HR OIL AND FILTER CHANGE. CUT OPEN AND INSPECTED OLD OIL FILTER: NO DEFECTS NOTED. INSTALLED NEW OIL FILTER (P/N: CH48108-1), TORQUED AND SAFTIED. SERVICED ENGINE WITH PHILLIPS 20W50XC ENGINE OIL. PERFORMED COMPRESSION TEST/80#, RESULTS: #1- 77, #2- 76, #3- 76, #4- 77, #5- 74, #6- 73. BORESCOPED ALL CYLINDERS: NO DEFECTS NOTED. RE INSTALLED SPARK PLUGS WITH NEW GASKETS (P/N: M674). SECURED LH EXHAUST HEAT SHIELD. ALL WORK PERFORMED IAW MANUFACTURER'S MAINTENANCE MANUALS. GROUND RUN, OPERATIONAL AND LEAK CHECK FOUND TO BE SATISFACTORY AT THIS TIME. ---END---JAMIE D. JOHNS A&P-2806121-IA

DATE TIME	AGENCY & CERTIFICATE NO.
W/O 1. The aircr	chapter 2 and FAR part 43 appendix D. Performed AD research, no new AD's were found. Complied with Lycoming SI 1129D, 1191A,1080C. Lycoming SB 366C, SB 480F. Drained engine oil and removed oil filter, Installed new oil filter P/N CH48108-1. Serviced engine with 9 Qt's of 20W-50 Phillips engine oil. Cut filter and inspected filter element, no defects were found. Performed Engine compression check Results as follows: Cyl #1 74/80, Cyl #2 72/80, Cyl #3 74/80 Cyl #4 76/80 Cyl #5 76/80 Cyl #6 74/80. Performed post 100 Hr. engine run and test flight. All systems check good. Ceraft and/or component identified above was repaired and inspected in accordance arrent Federal Aviation regulations and found to be airworthy and is approved for o service.

INSPECTION & MAINTENANCE RECORD		
DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
THIS LOGIBOUX IS OUT OF ORDER SEE PREVIOUS LOGIBOUX FOR CURRENT TIMES. CM.	W/v Drain CH48 Cut fi engin Accor Lycor The air with cu	FAA Repair Station OA5R085N 1675 Airport Road Waterford, MI 48327 SN. 10723 Hours 1778.1 med engine oil and removed filter. Installed new oil filter P/N 8108-1. Serviced engine with 8 Qt's of 20W-50 Phillips engine oil. filter and inspected filter element, no defects were found. Performed the run and leak check, no defects found. All work was performed In redance with Robinson Model R44 Pilots Hand Book Section 8 and ming SB 480F. Terraft and/or component identified above was repaired and inspected in accordance the property of the pro