

AIRWORTHINESS DIRECTIVE / FACTORY BULLETIN COMPLIANCE RECORD

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.
00-142	Injector Fuel Lines	SEP 8 08 0	New lines and clamps installed	Recur	100 or Annual	RHC PC424WE <i>Pullo</i>
00-388	Valve Stem Clearance	SEP 8 08 0	New engine installed	Recur	300.0	RHC PC424WE <i>Pullo</i>
00-400	Oil Change	SEP 8 08 4.9	Changed oil	Recur	29.9 HRS OR 4 MONTHS	RHC PC424WE <i>Pullo</i>
00-07-01	Connecting Rod Bolts	SEP 8 08 0	Mfg'd by Text-Lyc	1 Time	N/A	RHC PC424WE <i>Pullo</i>
00-09-10	Sintered Iron Impeller	SEP 8 08 0	C/W by Mfr	1 Time	N/A	RHC PC424WE <i>Pullo</i>
00-23-03	Fuel Pumps	SEP 8 08 0	N/A by D.O.M.	1 Time	N/A	RHC PC424WE <i>Pullo</i>
00-18-12	Fuel Pumps	SEP 8 08 0	N/A by pump model	1 Time	N/A	RHC PC424WE <i>Pullo</i>
000-10-53	Oil Filter Plate	SEP 8 08 0	Converter Plate not installed	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0004-08-14	Crankshaft Gear Bolt	SEP 8 08 0	Complied with by Lycoming	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0004-10-14	Crankshaft Gear	N/A 0	N/A	Recur	Sudden Stoppage, or Gear Train Repair	RHC PC424WE <i>Pullo</i>
0008-12-08	TCM Magnetos	SEP 8 08 0	N/A by Series	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0008-19-11	Crankshaft	SEP 8 08 0	N/A per SB 566	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0000-20-09	Crankshaft	SEP 8 08 0	N/A by Eng S/N	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0008-08-14	RSA-10 Fuel Servo	SEP 8 08 0	Part No. 2577258 Gasket Installed	1 Time	N/A	RHC PC424WE <i>Pullo</i>
0008-14-07	Injector Fuel Lines	SEP 8 08 0	New lines and clamps installed	Recur	100 or Annual	RHC PC424WE <i>Pullo</i>
FRS-107 Rev 2	RSA-10 Fuel Servo	SEP 8 08 0	New gasket torqued and "G" marked	1 Time	N/A	RHC PC424WE <i>Pullo</i>

INSPECTION & MAINTENANCE RECORD

Make: Lycoming	Cove Helicopter	Reg. No.: N513TL
Model: IO-540-AE1A5	200 Airport Rd	Date: 21 st March 2016
Serial No.: L-32971-48E	Duncansville PA 16635	WO# N513TL-022616
Airframe TSN: 604.1	814-414-9099	Page: 1 of 1
Hobbs: 604.1 Total Time: 604.1	Log Book Entry	

Description of Work Accomplished

Completed 100hr inspection in accordance with Lycoming Ops Manual Rev 3/2009. (See historical logbooks for times 4.9-504.1 Sept 2008-March 2016. Inspected s/n 12391 to conform to TCDS H11NM, RHC MM Section 3 Life limited parts and Lycoming TCDS 1E4. Compressions over 80 psi as follows: #1 79 #2 76 #3 78 #4 79 #5 78 #6 79 Changed oil with Phillips 20W50 and filter w/48108-2
CW AD2015-19-07 Fuel lines by inspection of lines and clamps. Next due 604.1 (Old AD2011-26-04)
AD2004-10-14 Crankshaft gear due at overhaul or sudden stoppage.

*I certify this engine conforms to the
Type certificate data sheet H11NM (Robinson R44) and 1E4 (Lycoming IO-540-AE1A5)*

Approval for Return to Service

The article(s) identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service.

Authorized Signature:



CRS 3EHR977A

INSPECTION & MAINTENANCE RECORD

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

Markey Aviation

397 South St Clintondale NY, 12515

Robinson R-44 N513T S/N: 12391

06, July 2017

Hobbs Time: 561.7

Lycoming IO-540-AE1A5

S/N: L-32971-48E

1. Completed Annual Inspection IAW Robinson Helicopter 100hr/Annual Inspection checklist and Lycoming engines service manual.
2. Ran engine and recorded cylinder compressions: 1) 78/80 2) 76/80 3) 78/80 4) 76/80 5) 75/80 6) 77/80
3. Drained oil, retained sample for analysis, removed oil filter (P/N: CH48108-1) cut and inspected with no contamination noted. Installed new filter, safety wired and added 8qts Phillips 20W-50 oil.
4. Cleaned, gapped and rotated all spark plugs as required.
5. Checked magneto to engine timing with proper timing noted.
6. Drained and inspected gascolator with no contamination noted.
7. Complied with AD2015-19-07 Fuel lines by insection with no defect noted. Next due: 661.7.
8. Inspected all oil lines and fittings.
9. Cleaned and inspected induction air filter element with no defect noted.
10. All AD's complied with thru 07/17.

*I certify this Engine was inspected in accordance
with a 100hr/Annual inspection, and found to in Airworthy condition.*

James T. Markey A&P3166872IA



INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.

Markey Aviation

397 South St Clintondale NY, 12515

Robinson R-44 N513TL S/N: 12391

Hobbs Time: 571.0

S/N: L-32971-48E

15, May 2018

Clycoming IO-540-AE1A5

1. Drained oil, retained sample for analysis, removed oil filter (P/N: CH48108-1) cut and inspected with no contamination noted. Installed new filter, safety wired and added 9 qts Phillips 20W-50 oil.

Run up and functional check of work completed satisfactory.

James T. Markey A&P31668721A



INSPECTION & MAINTENANCE RECORD

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

Markey Aviation

397 South St Clintondale NY, 12515

Robinson R-44 N513TL S/N: 12391

23, October 2018

Hobbs Time: 572.3

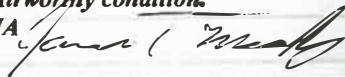
Lycoming IO-540-AE1A5

S/N: L-32971-48E

1. Completed Annual Inspection IAW Robinson Helicopter 100hr/Annual Inspection checklist and Lycoming engines service manual.
2. Ran engine and recorded cylinder compressions: 1) 76/80 2) 74/80 3) 76/80 4) 76/80 5) 73/80 6) 75/80
3. Cleaned, gapped and rotated all spark plugs as required.
4. Checked magneto to engine timing with proper timing noted.
5. Drained and inspected gascolator with no contamination noted.
6. Complied with AD2015-19-07 Fuel lines by insection with no defect noted. Next due: 672.3.
7. Inspected all oil lines and fittings.
8. Cleaned and inspected induction air filter element with no defect noted.
9. AD2017-16-11 Connecting rod bearing replacement does not apply by S/N per Lycoming MSB 632B.
10. All AD's complied with thru 10/18.

*I certify this Engine was inspected in accordance
with a 100hr/Annual inspection, and found to in Airworthy condition.*

James T. Markey A&P31668721A



INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME



**YELLOWSTONE
HELICOPTERS**

06/03/19 513TL Hobbs 622.2

Completed 50Hr Service. Drained oil and replaced oil filter. Serviced with 7qts of ^{Phillips} ~~Castrol~~ 20w-50 X/C. Inspected spark plugs for cleanliness, OK. Filter check, OK.

I Certify This Aircraft Was Inspected in Accordance With a 100 Hr. Inspection
And Found It to Be in Airworthy Condition

Alexander Izucar-Ramirez A&P 3890551

Alexander Izucar-Ramirez

MAKE: LYCOMING **MODEL:** IO-540-AE1A5 **S/N:** L-32971-48E **REG. NO:** N513TL

DATE: 16 JULY 2019 **A/C TT:** 672.4 **ENGINE TIME SNEW:** 672.4

Performed 100 hour inspection of engine in accordance with Lycoming operators manual. Compression check: (1)78 (2)79 (3)79 (4)79 (5)79 (6)78. Drained engine oil, replaced oil filter CH48108-1, inspected oil sump screen. Serviced engine with 8 Qts. Phillips 20W-50 engine oil. Cleaned, gapped, and rotated spark plugs. Inspected fuel sump screen, and fuel servo inlet screen. Checked magneto to engine timing both @ 20 degrees BTC. Cleaned and inspected fuel injector nozzles in accordance with Lycoming Service Instruction 1275C. Complied with AD 2015-19-07 Inspected fuel injector lines. Found to comply with Lycoming MSB No. 342G, and par. E of AD. Due at next 100 hr or following any maintenance where fuel injection lines or clamps were loosened, moved or disconnected. Pressure checked exhaust system for leaks. Run up and operational check performed. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Thomas R. Wilson

Thomas R. Wilson AP3049347IA

TW

INSPECTION & MAINTENANCE RECORD

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

MAKE: LYCOMING MODEL: IO-540-AE1A5 S/N: L-32971-48E REG. NO: N513TL

DATE: 25 Sept 2019 A/C TT: 771.6 ENGINE TIME SNEW: 771.6

Performed 100 hour inspection of engine in accordance with Lycoming operators manual. Compression check: (1)79 (2)79 (3)79 (4)77 (5)78 (6)78. Drained engine oil, replaced oil filter CH48108-1, inspected oil sump screen. Serviced engine with 8 Qts. Phillips 20W-50 engine oil. Cleaned, gapped, and rotated spark plugs. Inspected fuel sump screen, and fuel servo inlet screen. Checked magneto to engine timing both @ 20 degrees BTC. Cleaned and inspected fuel injector nozzles in accordance with Lycoming Service Instruction 1275C. Complied with AD 2015-19-07 Inspected fuel injector lines. Found to comply with Lycoming MSB No. 342G, and par. E of AD. Due at next 100 hr or following any maintenance where fuel injection lines or clamps were loosened, moved or disconnected. Pressure checked exhaust system for leaks. Replaced engine driven fuel pump (p/n: 62B26931), installed with new gasket (60096) and o-rings (MS29512-06). Run up and operational check performed. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Thomas R. Wilson
 Thomas R. Wilson AP30493471A

10-10-19 \$6L&C-204T \$N E12HA271R
 \$6L&C-200 \$N E12HA252R

Performed 500 hr. magneto inspection.
 Bearings cleaned + packed. Tested coils
 + condensers. Installed new main
 breaker points PN 10-382585. New oil
 seals + slingers, snap rings #16624-
 1037 + cotter pins 10-90751-18. Done as
 per TCM Master Service Manual. OK
 for return to service.

R. Craig Finley 2088669
 JTF

