

L-30135-48A

ENGINE LOG
EF5-1

Engine Log

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Aero Products Corporation

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ENGINE DESCRIPTION

MANUFACTURER LYCOMING MODEL IO-540-AE2A5

SERIAL NUMBER L-30135-48A DATE OF MANUFACTURE _____

RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____

FUEL REQUIRED OCTANE/PERFORMANCE _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

REGISTERED OWNER _____

STREET NO. _____

CITY, STATE, ZIP _____

INSTALLATION RECORD

[illegible]

INSTALLATION RECORD

[illegible]

[illegible]

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

[illegible]

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

[illegible]

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

[illegible]

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/2/17	1531.3	REMOVED ALTERNATOR PIN# ALU-8521 S/N# E053486 AND INSTALLED NEW ALTERNATOR PIN# SAME S/N# H-Q120630 REFERENCE ROBINSON MM R44 N204TV, S/N# L30135 48A LYCOMING IO540-AE1A5 T1 1531.3 I CERTIFY THIS ENGINE HAS BEEN REPAIRED IAW THE ABOVE REFERENCE AND DETERMINED TO BE IN AN AIRWORTHY CONDITION 
5/11/17	1584.5	N204TV S/N# 10723 R44II REMOVED ENGINE ASSY PIN# IO-540-AE1A5 S/N# L-30135-48A T1 1584.5 TO FACILITATE OVERHAUL, IAW ROBINSON MM R44 SERIES SECTION 6.110  ADP3579084

3/23/2018

Gmail - Re: WORK order #1402 re lyco

DATE



Re: work order #1402 re lycoming SB

1 message

Mark Young <mark@tropicalpower.com>

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

To: Benjamin <ben.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.tropicalpower.com

Date July 2, 2018
overhaul. Eng
work on reco
Crankcase o
cylinder Asse
All new gaske
Harness and
gear and bolt
Vernatherm.
Engine test r

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

Mark Young

INSPECTION & MAINTENANCE RECORD

Benjamin - <ben.to

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1.5

4 SEALS

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

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 *Mark Young*

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
REGISTRATION: N204TV Lycoming IO-540-AE1A5 S/N: L-30135-48A HOBBS: 1584.5 ETT: 1584.5 TSMOH: 0 DATE: 7/12/2017		
1. Built up and installed overhauled engine p/n: IO-540-AE1A5 s/n: L-30135-48A. 2. Dynamic balanced scroll fan to .08 IPS. 3. Ground run and operational check good with no defects.		
Chad Saizan 3622453 AP <i>Chad Saizan</i>		
9/1/17	1613.6	TSMOH 29.1 Engine oil drained and refilled with 8 qts Mineral Oil. Oil filter removed and opened, no metal found. New filter installed. <i>Andy Smith ATP 3120217</i>
11/7/17	1640.4	TSMOH 56.0 Engine oil drained and refilled with 8 qts AeroShell Plus. Oil filter removed and opened, no metal found. New filter installed. <i>Andy Smith ATP 3120217</i>


INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
11/14/18	1664.0	<p>01/14/18 N207TV R44 Raven II S/N 10723 AFTT 1664.0</p> <p>1. Complied with 100 hr/annual inspection referencing RHC MM RTR 460 Sect 2.400 and CFR Part 43 Appendix D.</p> <p>2. Tail rotor drive shaft runout checks yielded: bay 2 .005) bay 3 .007) bay 4 .008) bay 5 .005) bay 6 .005)</p> <p>3. Sheave alignment L/H .128 R/H .108</p> <p>4. Completed Lycoming S.I. 1191A Compression check of cylinders yielded: #1 79, #2 79, #3 80, #4 80, #5 79, #6 80</p> <p>5 Completed 25 hr oil & filter change and performed Lycoming S.B 480F No defects noted.</p> <p>6. Completed Lycoming S.B. 342F Fuel line inspection due every 100 hrs No defects noted.</p> <p>7 .Completed Lycoming S.B. 388C Valve guide clearance 100 hr initial No defects noted</p> <p>8. Completed Lycoming S.B. 643B, 653 & 663 inspection of ignition system No defects noted.</p> <p>9. Completed Lycoming S.I. 1129B Inspection of alternator belt No defects noted</p> <p>10 Completed E.L.T. inspection TSO-C91a No defects noted</p> <p>11. Completed A.D. 07-26-12 Inspection of MRB at each 100 hr/annual No defects noted.</p> <p>I certify 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.</p> <p>David Wilson A&P# 3579084 </p> <p>Edwin Garner IA# 440042 </p>

INSPECTION & MAINTENANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

DATE		TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
1/28/18	1668.5	N204TV	Robinson R44 Raven II S/N 10723
		Date: 1/28/2018	Total Time: 1668.5
		<p>Removed aft cowling to access suspected leaking right hand oil cooler inboard fitting. Disconnected RH inboard connection and removed fitting to reapply B270-6 sealant on threads. Reinstalled fitting and reconnected RH inboard oil cooler line IAW paragraph 6.320 of the Robinson R44 II Maintenance Manual. Reinstalled aft cowling. Performed operational check of aircraft and found no defects at this time.</p> <p>Removed and repainted both round blade tip covers P/N C300-3 and reinstalled. All maintenance was accomplished in accordance with the Robinson R44 II Maintenance Manual, Illustrated Parts Catalog and AC 43.13-1B/2B.</p>	
		Mason Bryant	 A&P 3975276

INSPECTION & MAINTENANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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REGISTRATION: N204TV Lycoming IO-540-AE1A5 S/N: L-30135-48A HOBBS: 1679 ETT: 1679 DATE: 03/30/2018

1. Cylinder compression checks yielded: cyl 1) 78/80, cyl 2) 78/80, cyl 3) 76/80, cyl 4) 76/80, cyl 5) 76/80, cyl 6) 76/80.
2. C/W AD 2017-16-11, N/A by s/n in table 1 and verified with engine oh shop, p/n's not used in table 2.
3. Removed and replaced fanwheel assy with new p/n: D174-2, balanced fan to .17 IPS IAW RHC MM.

Michael Krulac 2805759AP

Date: 4/6/18

Description of Work performed: 25 Hour Oil Change. Per FAR part 43 in accordance with the Robinson Helicopter Company R44 manual, N204TV Serial #10723 R44 II Helicopter, engine oil was removed via sump quick drain and replaced with 8 quarts of Phillips X/C 20w50 Aviation Oil. Helicopter was then started to verify oil pressure within 30 seconds. Ground run was performed for a few minutes then shut down and verified no leaks. Per 91.407, this aircraft was then returned to service.
Hobbs 1688.70, Airframe TT 1688.70, ETT 104.20, TSO 1688.70

Benjamin Tong CP#3513619CFI

4/25/2018	PERFORMED 100 NR INSPECTION IAW RHC R44 II MX MANUAL
HOBBS-1688.7	CHECKLIST. CYLINDER COMPRESSION: #1 79/80, #2 78/80 #3 76/80
ETT 104.2	#4 74/80 #5 89/80, #6 76/80. INSPECTED FUEL SCREENS, SPARK
	PLUGS, CHECKED MAG TIMING. C/W AD 2015-19-07 BY INSPECTION
	NO DEFECTS OBSERVED. INSTALLED NEW CNT PROBE. OPS
	CHECK OK. I CERTIFY THIS ENGINE HAS BEEN INSPECTED
	IN ACCORDANCE WITH A 100 NR INSPECTION AND

CONTINUED -

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
4/25/2018	CONTINUED -	WAS DETERMINED TO BE IN AIRWORTHY CONDITION. TAT 1035522361A

AIRCRAFT MAINTENANCE UNLIMITED, LLC.

WATERFORD, MI

N204TV

ENGINE LOG ENTRY HOBBS: 1713.2

07/14/2018

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

JAMIE D. JOHNS A&P-2806121-IA

INSPECTION & MAINTENANCE RECORD

DATE

TOTAL
TIME

INSPECTION OR MAINTENANCE PERFORMED
AGENCY & CERTIFICATE NO.



Contact Aviation

FAA Repair Station OA5R086N
1675 Airport Road
Waterford, MI 48327

Date 1/18/19
W/O 18346

Reg. No .N204TV

SN. 10723

Hours 1814.6

1. Complied with 100 Hr. inspection as per Robinson maintenance manual 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.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and found to be airworthy and is approved for return to service.


OA5R086N

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
THIS		
LOGBOOK		
IS OUT		
OF ORDER		
SEE		
PREVIOUS		
LOGBOOK		
FOR CURRENT		
TIMES		
Ch.		



Contact Aviation

FAA Repair Station OA5R086N
1675 Airport Road
Waterford, MI 48327

Date 11/27/18
W/O 18324

Reg. No .N204TV

SN. 10723
Hours 1778.1

Drained engine oil and removed filter. Installed new oil filter P/N CH48108-1. Serviced engine with 8 Qt's of 20W-50 Phillips engine oil. Cut filter and inspected filter element, no defects were found. Performed engine run and leak check, no defects found. All work was performed In Accordance with Robinson Model R44 Pilots Hand Book Section 8 and Lycoming SB 480F.

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation regulations and found to be airworthy and is approved for return to service.

OA5R086N

