



*The Standard*

# ENGINE LOG

ASA-5511

The Standard Engine Log  
SE-1

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ASA-SE-1

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### Engine Record General Information

Manufacturer LYCOMING Model O-540-AYD5 EXP  
Serial L-5480-40 Type Certificate \_\_\_\_\_  
This engine is currently installed in aircraft BEARHAWK HOME BUILT  
AIRCRAFT N868JD  
Minimum Octane Fuel 93 Oil Grade: Summer 50 Winter 15W-50  
Magneto Time 25° BTDC Point Setting \_\_\_\_\_ Firing Order 1,4,5,2,3,6  
Spark Plug Gap .016-.018  
Manufacturer recommended overhaul at 2000 hours

MAX CYL HEAD TEMP - 475°F  
MAX OIL TEMP - 235°F  
OIL PRESS @ 2000 RPM - 60-80 PSI  
ALTERNATOR - 60 AMP

1-7-07

Notes

Registered Owner Record

Name \_\_\_\_\_ Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Name \_\_\_\_\_ Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
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 Name \_\_\_\_\_ Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_

ENGINE REBUILT FROM CORE TO OSMOH AS PER  
 LYC O.H. MANUAL NEW TOL. LIMITS. FOR USE IN  
 HOME BUILT BEARHAWK AIRCRAFT. O.H. CRANKSHAFT  
 STD. (RODS & MAINS), O.H. 72801 DYN WT'S, O.H.  
 CRANKCASE, O.H. CAMSHAFT & TAPPETS. NEW STD.  
 ROD & MAIN BEARINGS. NEW GASKETS & SEALS, NEW  
 OIL PUMP C/N GEARS & HOUSING, NEW SUPERIOR  
 (SH-36006N-A20P) CYL. KITS. SH75089 PISTONS  
 SH3601-SC RINGS, NEW PISTON PINS & PLUGS. O.H.  
 CON RODS, FLYWHEEL, VAC DRIVE, SKY-TEC,  
 STARTER, REMOTE OIL FILTER. ENGINE IS IN  
 AIRWORTHY CONDITION. R.F. BARROWS A#P3130910.  
 (NO MAGS, GEARS, HARNESS,) CARB. IS REBUILT

YEAR: 2012	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
JAN 5	0.0	0.0	0.0	INSTALLED LIGHT SPEED III DUAL IGNITIONS ON ENG.
MAR 17	0.0	0.0	0.0	INSTALLED PROP TORQUE + SPEEDY - CHECK TUNING.
APR 6	25.0		25.0	INSPECTED ENG FOR OIL LEAKS, LOOSE H/W - CHANGED OIL + FILTER - TEST RUN - OK Julian [Signature] BOULDER/CORNER
APR 19	41.8		41.8	REMOVED ECHT PROB Julian [Signature] BOULDER/CORNER
SEP 12	75.9		75.9	CHANGED OIL + FILTER INSPECTED ENG FOUND EXPERTISE Julian [Signature]
2013				
3-29-2013	88.5		88.5	CONDITION INSPECTION SEE AIRCRAFT LOG ENTRY Julian [Signature] 3625804
APR - 1				ENG COMPUTER BS# 20976 REMOVED + RETURNED TO MANUFACTURER DE SET WERE: EXCESSIVE ENG TIME. Julian [Signature] 3625804

YEAR: 2013	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
SEP 10	75.0		75.0	PLS COMPUTER BS# 20976 INSTALLED IN AIRCRAFT - SOFTWARE ERROR FOUND + CORRECTED BY [Signature] BOULDER
L	L		L	TOTAL TIME RECORDED BY 22.0 HRS TOTAL TIME RESET TO 75.0 HRS Julian [Signature] 3625804
SEP 10	75.0		75.0	
2014				
MAR 17	79.5		79.5	I CERTIFY THAT THIS AIRCRAFT (N868JD) HAS BEEN INSPECTED ON MAR 17, 2014 IN ACCORDANCE WITH THE SCOPE AND DETAILS OF APPENDIX "D" OF PART 43 OF THE FAR'S AND FOUND TO BE IN A CONDITION FOR SAFE OPERATION Julian [Signature] 3625804

YEAR: 2014	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
MAY 23	81.8		81.8	REPAIRED CARB TEMP PROB W/ CRT. PART # CAP 07-01 Julian Smith 3625804
2015				
MAR 20	93.6		93.6	CONDITION INSPECTION COMPLETE SEE AIRCRAFT LOG - REMOVED AIR TUBES ON RIGHT SIDE OF ENG. (CARB HEAT AIR SUPPLY) INSTALL RUBBER GROMMETS ON MOUNTING ANGLES TO STOP WAVE IN HOLES OF ANGLE. Julian Smith 3625804
2016				
Apr 1	99.8		99.8	CONDITION INSPECTION COMPLETE (SEE AIRCRAFT LOG) REPAIRED OIL SEAL IN VACUUM PUMP DRIVE Julian Smith 3625804

YEAR: 2017	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
MAR 1	109.0		109.0	CONDITION INSPECTION COMPLETE (SEE AIRCRAFT LOG) REPAIRED MANIFOLD PRESSURE FITTING IN #5 CYL Julian Smith 3625804
JUL 2	112.4		112.4	CONDITION INSPECTION COMPLETE (SEE AIRCRAFT LOG) Julian Smith 3625804
DEC 2	150.7		150.7	OIL CHANGED BY OWNER. 9 QTS AERO SHELL 15W-50. WASH DOWN ENGINE

07/12/2018 Bearhawk N868JD s/n: 070-133/134-941 tach Reads 163.7 AFTT: 163.7 owner: Charles Bratton

Lycoming O-540-A1B5 s/n: L-5480-40 TSO/TIS: 163.7

Hartzell HC-C2Y-1BF s/n: CH36706B TSO: 163.7

Performed condition inspection and servicing according to Lycoming O-540 manual and the scope and detail of FAR 43 appendix D. Drained oil, replaced spin on oil filter with new Champion 48109-1.

Cleaned oil pickup screen- no metallic particles found. Serviced with 11 quarts Phillips 66 X/C 20W-50.

Replaced spark plugs with new. Compressions checked #1=78, #2=79, #3=78, #4=79, #5=77, #6=77/80

psi. Cleaned and re-oiled airfilter. Cleaned gascolator screen and Carb intake screen-no contaminants

noted. Washed and ran engine- no leaks. I certify that this engine has been inspected according to FAR

43.15(a)(1)(c)(2) for a condition inspection and was determined to be in a condition for safe operation.

Michael K. Weiss A&P 3566362

*(Signature)*

*(Signature)*

*(Signature)*

*(Signature)*

*(Signature)*

*(Signature)*

*(Signature)*

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8-11-18	181.0			Replace plane power act (#1) at outlet terminal - Test Run OK T. Cawley 1815728 A&P

**CAWLEY'S AVIATION SERVICE**  
**SKY ACRES AIRPORT**  
**185 N. SMITH ROAD**  
**LAGRANGEVILLE, NY 12540**  
**845-677-5048 C.R.S. QWLR726L**



YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
	TACH	FLIGHT	TIME IN	
DATE	TIME			Work must be performed with Name, Rating, and Certificate Number of Technician or Repair
				<p><b>Kachemak Bay Flying Service</b>  <b>7720C AIRPORT RD.</b>  <b>TEMPLE, TX. 76504</b>  <b>3 September 2021</b></p>
<b>N868JD</b>	<b>Smith Julian A</b>	<b>Bearhawk</b>	<b>S/N:070-133/134-941 Tach:286.5</b>	
				<b>Lycoming O-540-A1B5 S/N:L-5480-40</b>
				<ol style="list-style-type: none"> <li>1. Performed condition inspection and servicing according to Lycoming O-540 manual and the scope and detail of FAR 43 appendix D.</li> <li>2. Installed New Horizons Maggie Ignition Systems Ignition Harness p/n: L20-11AS-II IAW New Horizons Maggie Ignition Systems Installation Instructions.</li> <li>3. Installed 12 new Champion Spark plugs p/n: REM38E IAW Lycoming Overhaul Manual Direct Drive Engine No.60294-7, Rev.7-10D, dated July 2011.</li> <li>4. Installed Unison Industries Slick Magnetos p/n:6350 s/n:05031331 and p/n:6355 s/n:08012378 with 2ea Magneto Install kits p/n: K3784 and Lycoming Gear Assy-Retainer p/n: LW-19096 into aircraft engine IAW Lycoming Overhaul Manual Direct Drive Engine No.60294-7, Rev.7-10D, dated July 2011.</li> <li>5. Installed 6 Alcor CHT Type K probes on the aircraft engine IAW Alcor Incorporated CHT Probe Installation Instructions No. 59167, Rev. F, dated 6/18.</li> <li>6. Installed 6 Alcor EGT Type K probes one the aircraft engine IAW Alcor Incorporated EGT Probe Installation Instructions No. 59180, Rev. G, 01/08.</li> <li>7. Installed Electronics International Inc. Fuel Flow Transducer p/n: FT-60 s/n:228836 IAW Electronics International Inc. FT-60 Flow Transducer (Red Cube) Installation Instructions No. 1030032, Rev. F, 7/24/13.</li> <li>8. I certify that this engine has been inspected according to FAR 43.15(a)(1)(c)(1)(2) for a condition inspection and was determined to be in a condition for safe operation.</li> </ol>
				<p><i>H.Rubio</i>  Hector Rubio A&amp;P# 3872801</p>

YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations
	TACH	FLIGHT	TIME IN	
DATE	TIME			Work must be performed with Name, Rating, and Certificate Number of Technician or Repair
				<p><b>Kachemak Bay Flying Service</b>  <b>7720C AIRPORT RD.</b>  <b>TEMPLE, TX. 76504</b>  <b>3 September 2021</b></p>
<b>N868JD</b>	<b>Smith Julian A</b>	<b>Bearhawk</b>	<b>S/N:070-133/134-941 Tach:286.5</b>	
				<b>Lycoming O-540-A1B5 S/N: L-5480-40</b>
				<ol style="list-style-type: none"> <li>1. Performed condition inspection and servicing according to Lycoming O-540 manual and the scope and detail of FAR 43 appendix D.</li> <li>2. Installed UMA, Inc. Temp probe p/n:1BxR into oil temp port of engine IAW 1BxR Installation InstructionsBIG.pdf</li> <li>3. Installed oil Pressure transducer, powered, 150PSI p/n:494-30004-00 IAW Garmin Installation Instructions.</li> <li>4. Drained oil, replaced spin on oil filter with new Champion 48109- oil filter. Cleaned oil pick-up screen. No metallic particles found. Serviced with 11 quarts Phillips 66 X/C 20W-50.</li> <li>5. Cleaned oil pick-up screen- no metallic particles found.</li> <li>6. Cleaned and re-oiled air-filter.</li> <li>7. Cleaned gascolator screen and carb intake-no contaminants noted.</li> <li>8. Ran engine-no leaks.</li> <li>9. I certify that this engine has been inspected according to FAR 43.15(a)(1)(c)(1)(2) for a condition inspection and was determined to be in a condition safe operation.</li> </ol>
				<p><i>H.Rubio</i>  Hector Rubio A&amp;P# 3872801</p>



