

2.4 Powerplant

Lightning, S/N: 20 , N- number: N59JL
is fitted with a Jabiru 3300 engine, S/N: 33A1085 ,
and prop, type: Sensenich W64ZK-54 & S/N: AG6820.

The 120 HP Jabiru 3300 aircraft engine is a 6-cylinder, 4-stroke, horizontally opposed, ram air cooled, normally aspirated engine with a pressure compensating carburetor. It has a displacement of 3314 cubic centimeters or 202.23 cubic inches. The crankcase is machined from aluminum alloy and has a wet sump. The engine uses one central camshaft for the push rod operated over-head valves. The engine is direct propeller drive with dual transistorized magneto ignition, and integrated AC generator, electric starter and a mechanical fuel pump.

Maximum power: 120 HP at 3300 rpm intermittent.
..... 112 HP at 2750 rpm continuous.
Fuel..... AVGAS 100LL or 91+ octane MOGAS
Oil..... Aeroshell W100, 15W50, or equivalent
Oil capacity..... 3.5 liters (3.69 quarts)
Spark plugs..... NGK D9EA – automotive

NOTE:

After any maintenance on the engine, check to insure that there are no foreign objects on the “teeth” of the flywheel.

2.5 Powerplant limits

Note: Powerplant limits are programmed into the Chelton EFIS and the Grand Rapids Engine Information System (EIS).

Function	Minimum limit	Normal operating range	Caution range	Maximum limit
RPM	700-800	2000 - 3250	3250 - 3300	3300
CHT	135 F	200-356 F	357- 391 F	392 F
EGT		1250 – 1400F	1400 –1450F	1450 F
Oil temp	59 F	90 – 240 F	240 – 244 F	244 F
Oil pressure	11 psi	31 – 76 psi	76 – 80 psi	80 psi