

## Maintenance

### Engine Oil

Conventional oil:	Breaking in (first 10-20 hours)	
Full Synthetic Oil After Break In		
	5W-30	-25°F to 32°F
	10W-40	-4°F to 70°F
	15W-40	0°F to 70°F
	20W-50	Above 32°F
*If using 100LL fuel use semi-synthetic oil		
*Please change the engine oil every 50 hours.		

### Gear Oil

Conventional oil:	Breaking in (first 10-20 hours)	
80W-90		
Full Synthetic Oil After Break In		
85W-140		
*Please change the gear oil every 50 hours.		

**Oil filter:** Part NO. Fram 3614 or K&N HP1002      **Suggested Air Filter:** Part NO. K&N PL-1004

**Spark Plug:** Part NO. NGK BKR6EIX-11 ( Gap: 0.042" Torque: 18-21ftp )

### Engine parameters:

**RPM:** 1800 to 5800 rpm normal operating with 6500 rpm redline

**Coolant Temperature:** 160 to 210 F normal operating ranges with 220 F maximum

**Manifold pressure:** 2 to 15 psi

**Fuel Flow:** 0.5 to 11.5 gph, 65% cruise should be about 4.2 gph for the AM13 and 5.2 gph for the AM15

**% Power:** 0 to 100%, for longer engine life and better economy cruise power should be 65% or less.

**Timing advance:** -5 to+36 degrees, normally with good fuel you should have 34 to 36 degrees at cruise

**Note:** Timing advance of less than 34 degree will reduce the available power

If at any time the engine is operated outside of the allowable parameters expect power loss, land as soon as possible and fully inspect the engine before further flight.

If the ECU avoids operating closed loop the O2 sensor may need replacing.

**\*\*\* All the bolts on this engine are metric including oil sender. Using the wrong fittings can destroy the engine catastrophically.**