

SECTION 4
OPERATING INSTRUCTIONS

LYCOMING OPERATOR'S MANUAL
AEROBATIC ENGINES

8. ENGINE FLIGHT CHART.

FUEL AND OIL –

Model Series	Aviation Grade Fuel (Minimum Grade)
AEIO-320	80/87 octane
AEIO-320-D	91/96 or 100/130 octane
AEIO-360-A	100/130 octane
AEIO-360-B.....	91/96 or 100/130 octane
AEIO-540.....	91/96 or 100/130 octane
AEIO-540-L.....	100/100LL octane

NOTE

Aviation grade 100LL fuels in which the lead content is limited to 2 c.c. per gallon are approved for continuous use in these engines.

FUEL PRESSURE PSI –

Model	Max. (psi)	Min. (psi)	Min. Idle
AEIO-320, 360			
Inlet to fuel pump	35	-2	
Inlet to fuel injector (-320)	45	12	
Inlet to fuel injector (-360)	45	14	
AEIO-540-D Series			
Inlet to fuel pump	35	-2	
Inlet to fuel injector	45	14	12
AEIO-540-L1B5D Series			
Inlet to fuel pump	40	-2	
Inlet to fuel injector	40	18	12

FUEL CONSUMPTION –

	Gal./Hr.
AEIO-320 Series	
Normal Rated (2700 RPM, 150 HP).....	13.8/15.2
75% Rated (2450 RPM, 110 HP).....	10.0
65% Rated (2350 RPM, 97 HP).....	8.8
AEIO-320-D Series	
Normal Rated (2700 RPM, 160 HP).....	13.8
75% Rated (2450 RPM, 120 HP).....	10.0
65% Rated (2350 RPM, 104 HP).....	8.8
AEIO-360-A Series	
Normal Rated (2700 RPM, 200 HP).....	16.1
75% Rated (2450 RPM, 150 HP).....	12.3
65% Rated (2350 RPM, 130 HP).....	9.5