



ENGINE

(a) Number of Engines	1
(b) Engine Manufacturer	Lycoming
(c) Engine Model Number	TIO-540-AH1A
(d) Rated Horsepower	300
(e) Rated Speed (rpm)	2500
(f) Bore (inches)	5.125
(g) Stroke (inches)	4.375
(h) Displacement (cubic inches)	541.5
(i) Compression Ratio	7.3:1
(j) Engine Type	Six Cylinder, Direct Drive, Horizontally Opposed, Air Cooled, Turbocharged, Fuel Injected

PROPELLER

(a) Number of Propellers	1
(b) Propeller Manufacturer	Hartzell
(c) Blade Model	F-7663DR
(d) Number of Blades	3
(e) Hub Model	HC-I3YR-1RF
(f) Propeller Diameter (inches)	
(1) Minimum	77
(2) Maximum	78
(g) Propeller Type	Constant Speed, Hydraulically Actuated



FUEL

AVGAS ONLY

(a) Fuel Capacity (U.S. gal.) (total)	107
(b) Usable Fuel (U.S. gal.) (total)	102
(c) Fuel Grade, Aviation	
(1) Minimum Grade	100 - Green or 100LL - Blue Aviation Grade
(2) Alternate Fuels	Refer to latest revision of Lycoming Service Instruction 1070

OIL

(a) Oil Capacity (U.S. quarts)	12
(b) Oil Specification	Refer to latest issue of Lycoming Service Instruction 1014.
(c) Oil Viscosity per Average Ambient Temp. for Starting	
	SINGLE MULTI
(1) Above 80°F	60 60
(2) Above 60°F	50 40 or 50
(3) 30°F to 90°F	40 40
(4) 0°F to 70°F	30 30, 40 or 20W40
(5) 0°F to 90°F	20 20W50 or 15W50
(6) Below 10°F	20 30 or 20W30



MAXIMUM WEIGHTS

(a) Maximum Takeoff Weight (lbs.)	3600
(b) Maximum Landing Weight (lbs.)	3600
(c) Maximum Ramp Weight (lbs.)	3615

	FORWARD	AFT
Compartments	100	100

STANDARD AIRPLANE WEIGHTS

Refer to Figure 6-5 for the Standard Empty Weight and the Useful Load.

BAGGAGE SPACE

	FORWARD	AFT
(a) Compartment Volume (cubic feet)	7.0	17.3
(b) Entry Width (inches)	16.0	48.0
(c) Entry Height (inches)	22.0	26.0

SPECIFIC LOADING

(a) Wing Loading (lbs. per sq. ft.)	20.2
(b) Power Loading (lbs. per hp)	12.0