

OPERATING LIMITATIONS

ENGINE

- Takeoff Power
 - One minute
 - Full throttle
 - 2,300 rpm
- METO Power
 - Continuous
 - Full throttle
 - 2,200 rpm
- Recommended Climb Power
 - 25" MAP
 - 2,150 rpm
- CHT
 - 500°F for one minute
 - 450°F continuous
- Oil Pressure
 - Minimum Cruising
 - 50 psi
 - Minimum Idling
 - 15 psi
 - Maximum
 - 80 psi
- Normal Cruise RPM
 - 1,900-1,950 rpm
- Oil Temperature
 - Maximum Cruising
 - 70°F above OAT or 185°F (85°C)
 - Minimum recommended for run-up
 - 35°C
 - Minimum recommended for takeoff
 - 40°C
- Minimum Oil Quantity
 - 2 gals

FUEL

- Minimum Octane 87

WEIGHT & BALANCE

- Max Takeoff Gross Weight
 - 3,200 lbs
- Max Landing Weight
 - 3,200 lbs
- C.G. Range
 - 2,950 lbs or less (-1.0) to (+7.1)
 - 3,200 lbs (-1.0) to (+4.5)
 - Straight line variation of aft C.G. limit above 2,900 lbs with Item 601 (stall strips) not installed.

FLIGHT LIMITATIONS

- Solo from rear seat only
- Spins prohibited at weights above 2,950 lbs
- Airspeed Limits
 - V_{NE} 186 mph
 - Level flight or climb 125 mph
 - V_S 55 mph

INSTALLED EQUIPMENT LIST

REG NO: N75016
MFR SER NO: 75-3418

DATE: 18 MAY 2013

ITEM	DESCRIPTION	REQ'D ITEM #
1. Engine	Lycoming R-680-13	
2. Propellor	Hamilton Standard 2B-20	1f
3. Oil Tank	Boeing Wichita N2S-5/ PT-13D	105
4. Tail Wheel	10 inch	204(b)
5. Tail Wheel Gear	Boeing Wichita Steerable	205(a)
6. Seats	Boeing - Metal	401(a)
7. Safety Belts	Hooker	402
8. Battery(2)	Concord RG-25XC	
9. Avionics Panel	Custom	
10. ELT	SHARC 7	
11. Power Converter	Collins PWC150	
12. Transponder	Garmin GTX327	
13. Comm Receiver	Garmin SL-40	
14. Altitude Encoder	Sandia SAE 5-35	
15. Intercom	PS Engineering	
16. Main Gear Brakes	Redline 11-94	
17. Oil Filter	Airwolf AFC-K007	
18. Rocker Oil Recovery Sys.	Alden Engineering 100-104	
19. Airspeed Switch	Aerometer AMTR 1/4	
20. Smoke System	Custom	