AIRPLANE QUESTIONNAIRE

Name: _____ Grade: _____ CAPID: _____

Unit: _____ Date: 16 OCT 2009

Check Pilot: OHWG/DO Grade: _____ CAPID: _____

Score: _____ Type/Model Aircraft: N606CP, Gippsland GA8

Complete this open book questionnaire using the *Flight Manual/Pilot's Operating Handbook*. If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.

1. Approved fuel grades and colors are: Avgas 100 LL, Avgas 100/130
2. Location/capacity of each fuel tank is: 1 ea wg. 44.9 gal (43.8 usbl), sump 2.4 unuse Total 92.2 (87.7 usbl)
3. Total usable fuel under all flight conditions is 87.7 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 1-hour reserve is 3.2 hours.
5. What make and grade oil is used? Winter: Exon Elite 20W50 Summer: Exon Elite 20W50
6. Oil capacity is 12 qt quarts. Minimum oil quantity for take off is 2.8 quarts.
7. Minimum oil pressure is 25 psi psi. Maximum oil pressure is 115 psi .
8. Maximum oil temperature is 118 degrees (F or C) C .
9. Magnetos are checked at 2100 RPM. RPM drop should not exceed 175 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2700 and Full Th in/Hg.
11. Maximum gross takeoff weight is 4000 pounds. Empty weight is 2504.2 pounds. Useful load is 1495.8 pounds. Maximum landing weight is 4000 pounds.
12. Baggage compartment locations/weights are: Bag Shlf 250, Aft Bin 50
13. Give the IAS at maximum gross weight for:

a. Va (maneuvering speed).	121	e. Vx (best angle of climb, sea level).	66
b. Vso (stall, landing config, power. off).	52	f. Vmc (minimum control speed – multi-engine only).	N/A
c. Vs1 (stall, cruise config, power. off).	60		
d. Vy (best rate of climb, sea level).	76	g. Best glide speed.	78

14. Give the immediate action/memory items for:

a. Engine failure immediately after takeoff.

Airspeed: 64-71 KIAS, Land straight ahead, Ignition: Off, Fuel shut off valve: Off, Master switches 1 & 2: Off, Flaps: Full, Break: Heavy after touchdown.

b. Fire during cranking and engine fails to start.

Continue cranking. Throttle: Full open, Mixture: Idle cut-off, Fuel Shut Off Valve: Off, Ignition: Off, Master Switched 1 & 2: Off, Aircraft: Evacuate.

c. Engine fire in flight.

Fuel Shut Off Valve; Off, Fuel Pump: Off, Throttle: Closed, Prop: Coarse, Mixture: Idle cut off, Master Switches 1 & 2: Off, Vents: Close heater & air vents, Airspeed: 140 KIAS up to Vne, Forced Landing: Execute.

d. Electrical fire in flight.

Master Switches 1 & 2: Off, Electrical Switches; Off, Extinguisher: Activate.

Airplane Questionnaire (Continued)

15. Normal takeoff flap setting is 14 , short field takeoff setting is 14 , and soft field takeoff flap setting is 14 .

16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.

17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.

    Find: Total takeoff distance to clear a 50-foot obstacle: 3050'

18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.

    Find: Total landing distance to clear a 50-foot obstacle: 1350'

19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? No