

## AIRCRAFT QUESTIONNAIRE

9887L

Name DANNY D. DEGOTT Grade Capt CAPSN 323326 Unit IL-274 Date 2/25/05  
 Check Pilot Jim Olive Grade Capt CAPSN 291610 Score 5 Type/Model Acft C172

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: 100LL Blue
2. Location/capacity of each fuel tank is: R / L wings, 27 us gal each.
3. Total usable fuel under all flight conditions is 50 gallons.
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is 5.0 hours.
5. What make and grade oil is used? Winter 15W50 Summer 15W50
6. Oil capacity is 8 quarts. Minimum oil quantity for takeoff is 5 quarts.
7. Minimum oil pressure is 25 psi. Maximum oil pressure is 115 psi.
8. Maximum oil temperature is 240 degrees (F or C) F
9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 125 RPM on either magneto or 50 RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are 2700 and Full Throttle in/lig.
11. Maximum gross takeoff weight is 2550 pounds. Empty weight is 1572.7 pounds.
12. Useful load is 827 pounds. Maximum landing weight is 2550 pounds.
13. Baggage compartment locations/weights are: In the rear 120# max
  - a. Give the IAS at maximum gross weight for:
 

b. Va (maneuvering speed)	<u>99 KIAS</u>
c. Vso (stall, landing config, power off)	<u>33 KIAS</u>
d. Vs1 (stall, cruise config, power off)	<u>44 KIAS</u>
e. Vy (best rate of climb, sea level)	<u>76 KIAS</u>
f. Vx (best angle of climb, sea level)	<u>60 KIAS</u>
g. Vmc (minimum control speed - multi-engine only)	<u>N/A</u>
h. Best glide speed	<u>65 KIAS</u>
14. Give the immediate action/memory items for:
  - a. Engine failure immediately after takeoff Lower nose-EST Best Slide -Land Straight ahead
  - b. Fire during cranking and engine falls to start: Cont. to crank- Lean mixture - fuel off
  - c. Engine fire in flight: Mixture, master, fuel valve off, best glide, vents closed, Emergency Landing
  - d. Electrical fire in flight: Master off, all switches off (electrical), Emergency Landing
15. Normal takeoff flap setting is 0-10, short field takeoff setting is 10 and soft field takeoff flap setting is 10
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 aircraft is at maximum takeoff weight.  
Find: Total takeoff distance to clear a 50-foot obstacle 2511
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 1510
19. Landing runway 22; wind 190° at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? NO