

99871

AIRCRAFT QUESTIONNAIRE

Name C.M. LAIN Grade ILT CAPSN 299670 Unit IL-274 Date 02/07/05
Check Pilot MIKE LEONE Grade CAPT CAPSN _____ Score 100 Type/Model Acft 172P

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: ONE EACH WING 27 GAL
- 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 4.65 hours.

- 5. What make and grade oil is used? Winter 15W50 or sae 40wt Summer 15w50 or sae 50 WT
- 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 245 degrees (F or C) F
- 9. Magnetos are checked at 1700 RPM. RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos.
- 10. Maximum RPM and MP for takeoff are 2700 and NA in/lig.
- 11. Maximum gross takeoff weight is 2550 pounds. Empty weight is ~~1557.4~~ 1552.55 pounds.
- 12. Useful load is ~~1962~~ 997.45 pounds. Maximum landing weight is 2550 pounds.
- 13. Baggage compartment locations/weights are: 120 LB AFT OF REAR SEAT

- a. Give the IAS at maximum gross weight for:
 - b. Va (maneuvering speed) 105 KIAS ✓
 - c. Vso (stall, landing config, power off) 40 KIAS ✓
 - d. Vs I (stall, cruise config, power off) 50 KIAS ✓
 - e. Vy (best rate of climb, sea level) 76 KIAS ✓
 - f. Vx (best angle of climb, sea level) 62 KIAS ✓
 - g. Vmc (minimum control speed - multi-engine only) N/A ✓
 - h. Best glide speed 65 KIAS FLAPS UP ✓

- 14. Give the immediate action/memory items for:
 - a. Engine failure immediately after takeoff 65K MIX, FUEL, IG, MASTER OFF - LAND
 - b. Fire during cranking and engine fails to start: throttle full open-mixture cut off- selector off -pump off-, Keep cranking throttle full or exit A/C
 - c. Engine fire in flight: Fuel, fuel pump and Master off, vents closed, dive 100+ knots
 - d. Electrical fire in flight: Master and all switches off, vents closed and land

- 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