

Cherokee PA28-140 N41357

Fuel Consumption: 9.5gph 75% power; 50gal, 100LL, Tabs is 36 gals

Gross Weight (GW) 2150lbs, CG range 88.4-95.9

Empty Weight (w/o fuel & oil) : 1399lbs, CG 88.63

Useful Load: 750.7lbs (not including Fuel/oil)

Weight and Balance sample loading pg 5-9, 5-13, 5-14.

Stall Speed 55mph

Engine: Lycoming O-320-E3D with RAM STC HP upgrade to 160hp

Oil: 15W50, add at 4 to 5 qts

Airspeeds

Vx (best angle): 78mph

Vy (best rate): 89mph

Enroute Climb Speed: 100mph

Vr (rotation): 60mph+ (above blue mark on airspeed indicator)

Va (maneuvering): 129mph at max GW. During Tubulent Air Ops, no faster than Va

Vfe (flaps extended): 115mph

Best glide: 80mph

Indicated vs Calibrated Airspeed: pg 7-7 (at cruise, only 1 knot difference)

Service ceiling (100ft/min climb rate): 10,950ft

Absolute ceiling (no climb): 13,000ft

Spin Recovery: Throttle at idle, Airleron Neutral, Use full opposite rudder, followed by immediately forward wheel, Elevator back when spin stops, try not to redline if possible on recovery

Min Oil: 2qts min (prefer keep at 4-5qts) ,capacity 8 qts. Don't fill above 6qts for blowby.

Alternator: 60Amp

Vacuum Pump: Dry type, if drive shears, the gyros will become inoperative (A/I, DG)

Pitot and static are picked up by the pitot head

Heat: Provided by a heater muff attached to the exhaust system. Leaking exhaust system can cause carbon monoxide poisoning

Baggage area: 200lbs max

Stall warning: activated by a lift detector installed on the left wing leading edge. Indicator light on left panel

Density Altitude chart: pg 9-1

Glide performance: 10kft = 18miles