

**CESSNA 182 VH-SHN AIRCRAFT SPECIFICATIONS**

Airspeeds for Normal Operations

Take off & Landing Speeds

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| **Rotate Speed (Vr)** | 50kts | **Normal Approach** **(Flaps Up)** | 70kts |
| **Best Glide Speed** | 70kts | **Normal Approach** **(Flaps 30°)** | 70kts |
| **Best Angle (Vx)** | 57kts (Flaps 20) | **Short Field Approach (Flaps 40°)** | 60kts |
| **Best Rate (Vy)** | 78kts | **Baulked Approach** **(Max Power & Flap 20°)**  | 57kts |

General Speeds

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| --- | --- | --- | --- |
| **Never Exceed (Vne)** | 179kts | **Max Flap 10° - 40°** | 95kts |
| **Max Normal Operating (Vno)** | 143kts | **Level Stall Speed (Vs) – flap up** | 48kts |
| **Max Maneuvering (Va)** | 111kts | **Level Stall Speed (Vso) – flap down** | 45kts |
| **Max Flap Extension 10°** | 140kts | **Max Landing Crosswind** | 15kts |

Fuel & Oil

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| --- | --- | --- | --- |
| **Fuel Type** | 100LL or 100/130 Avgas | **Engine Type and Horsepower** | Continental 230BHP @ 2400RPM |
| **Maximum Fuel** | 303 litres | **Oil Grade** | Aero W100 |
| **Max Useable Fuel** | 284 litres | **Maximum Oil** | 12 Quarts |
| **Fuel Consumption** | 60 Litres/Hour | **Minimum Oil** | 9 Quarts |

**\*\*Note: 100LL Avgas is BLUE in colour and 100/130Avgas is GREEN\*\***

Performance

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| --- | --- | --- | --- |
| **Basic Empty Weight** | 819 kg | **Maximum Power**  | 2600 RPM |
| **Max Take off Weight** | 1340 kg | **Climb Power** | 23”MP 2400 RPM |
| **Max Landing Weight** | 1340 kg | **Normal Cruise** | 22’MP 2300 RPM |

\*\* Note: Max Load with Full Fuel: 302kg \*\*