

## DIAMOND DA42-TDI VITAL SPEC. SHEET

### Weights:

Max T/O weight:	3748 lbs
Max Landing Weight:	3748 lbs
Max Zero Fuel Weight:	3638 lbs

### Fuel capacity:

Main Fuel Tanks		Auxiliary Fuel Tanks	
Total :	52 USG	Total :	27.4 USG
Useable :	50 USG	Useable :	26.4 USG

### Oil:

Maximum :	6.0 Liters (6.3 Quarts)
Minimum :	4.5 Liters (4.8 Quarts)

### Speeds for safe operation:

V <sub>A</sub> :	126 KIAS above 3400 lbs 120 KIAS up to 3400 lbs	V <sub>MCA</sub> :	68 KIAS
V <sub>FE</sub> :	LDG up to 111 KIAS APP up to 137 KIAS	V <sub>SO</sub> :	62 KIAS
V <sub>LE</sub> :	194 KIAS	V <sub>S1</sub> :	56 KIAS
V <sub>LO</sub> :	194 KIAS extension 156 KIAS retraction	V <sub>YSE</sub> :	82 KIAS
V <sub>NO</sub> :	155 KIAS		
V <sub>NE</sub> :	194 KIAS		

Max demonstrated cross-wind speed – 20 KIAS

### Oil pressure range and limits:

Yellow arc :	Green arc :	Red line :
1.0 to 2.3 bar	2.3 to 5.2 bar	1.0 bar (min)
5.2 to 6.5 bar		6.5 bar (max)

### Oil temperature range and limits:

Yellow arc :	Green arc :	Red radial :
-32 to 50 °C	50 to 125 °C	-32 °C (min)
125 to 140 °C		140 °C (max)

**Electrical system:** 28V, output per alternator: 60 Amps

### Tire pressures:

Nose wheel :	87 psi	Main wheels:	65 psi
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