

Aircraft Basic Empty Weight and Balance

Date: June 17, 2013
Model: DA40
Aircraft Serial: 40.833
Registration: N245DS

Aircraft weighed this date IAW Diamond TCDS A47CE, POH/AFM weight and balance section 6 (dated 6/2000) and AC43.13-1B section 2, utilizing calibrated wheel weighing scales.

Scale S1 reading = 906 lbs.	Left main wheel	Tare = 0 lbs.	Net weight = 906 lbs.
Scale S2 reading = 912 lbs.	Right main wheel	Tare = 0 lbs.	Net weight = 912 lbs.
Scale S3 reading = 300 lbs.	Nose wheel	Tare = 0 lbs.	Net weight = 300 lbs.

Aircraft weighed with **full fuel (51 gallons), 6 1/2 qt. Indicated Engine Oil**, no portable equipment installed. Aircraft leveled longitudinally and laterally as specified in AFM.

Scale S1 arm = 108.4
Scale S2 arm = 108.4
Scale S3 arm = 38.15 (as measured)

Total weight as stated = 2118
CG empty weight = 98.45
Total moment = 208516.2

Less usable fuel 50 gallons = (300) lbs @ arm 103.5 = (31050) moment

Total empty weight as specified = 1818 lbs.
CG less fuel as specified = 97.62 as weighed
Total moment = 177466.2

C.G. Range Forward c/g position (aft of datum):
up to 2161 lbs. 94.5 in. (2.4 meter)
at 2535 lbs. 96.8 in. (2.46 meter)
at 2646 lbs. 97.6 in. (2.48 meter) see Note 13
Varying Linearly with weight in between

Rearward c/g position (aft of datum):
With Standard Fuel Tank 102.0 in. (2.59 meter)
With Long Range Fuel Tank 100.4 in (2.55 meter)

It is the responsibility of the airplane owner and pilot to assure that the airplane is properly loaded. Maximum allowable take off weight is 2646 pounds. See "weight and balance section" for loading instructions.

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Beaver Air Services & Equipment, Inc.