

WEIGHING REPORT

Model: DA 40 Serial Number: 14-020 Registration: OE-KDI

Data with reference to the Type Certificate Data Sheet and the Airplane Flight Manual.

Reference Plane: Vertical plane 2194 mm (86.38 in) in front of the leading edge of wing at the root rib.

Horizontal reference line: Wedge 600:31 (2.96°), 2910 mm (114.57 in) aft of the step in the cockpit rim.

Equipment Inventory - dated: _____ Cause for Weighing: TAE 2.0 S RETROFIT INSTALLATION

Weight and Balance Calculations (Weighing at the wheels)

Weight Condition: Including brake fluid, engine oil (MAX level), coolant (TAE version only), and unusable fuel (Lycoming: 2 x 0.5 US gal / 2 x 1.9 liters; TAE: 2 x 1 US gal / 2 x 3.8 liters).

Support	Gross	Tare	Net	Lever Arm
MAIN G _{1LH}			322,5	X _{1LH} = 245,5
MAIN G _{1RH}			315,5	X _{1RH} = 2745,5
NOSE G ₂			153	X ₂ = 889,5
Empty Weight			791 kg	

Calculate the Empty Weight, $G = \text{MAIN } G_{1LH} + \text{MAIN } G_{1RH} + \text{NOSE } G_2$.	G = 791 kg
Calculate the Empty Weight Moment, $M = (G_{1LH} * X_{1LH}) + (G_{1RH} * X_{1RH}) + (G_2 * X_2)$.	M = 1904,55
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$.	X _{CG} = 2,408 m
Maximum permitted all-up-weight: Max AUW (see AFM).	1150 kg
Maximum useful load = Max AUW - G.	359 kg

Record the Empty Weight (G) and the Empty-Weight Moment (M) in the Airplane Flight Manual.

Place/Date <u>LOAN, 15.01.2013</u>	Authorizing <u>[Signature]</u>	Authorizing Signature <u>[Signature]</u>
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Figure 6: Weighing Report for Mechanical Scales Under the Wheels