

## WEIGHING REPORT

 Model: DA 40 Serial Number: 40079 Registration: OE-DGE

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: Customer Request
**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
MAIN G <sub>1LH</sub>	323	322,5	322,5
MAIN G <sub>1RH</sub>	329	330,0	330,0
NOSE G <sub>2</sub>	1372	133,4	133,4
Empty Weight			785,9

Lever Arm
X <sub>1LH</sub> = 2,739 m
X <sub>1RH</sub> = 2,739 m
X <sub>2</sub> = 0,955 m

Calculate the Empty Weight, $G = \text{MAIN } G_{1LH} + \text{MAIN } G_{1RH} + \text{NOSE } G_2$ .	G = 785,9 kg
Calculate the Empty Weight Moment, $M = (G_{1LH} * X_{1LH}) + (G_{1RH} * X_{1RH}) + (G_2 * X_2)$ .	M = 1914,6 kgm
Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$ .	X <sub>CG</sub> = 2,436 m
Maximum permitted all-up-weight: Max AUW (see AFM).	1150 kg
Maximum useful load = Max AUW - G.	384,1 kg

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

Place/Date <u>LOAN 07.12.23</u>	Authorizing Stamp 	Authorizing Signature 
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Figure 6: Weighing Report for Mechanical Scales Under the Wheels