WEIGHING REPORT

Model: DA 40 Serial Number: 40.079 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: Replacement of LH-WING

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_{1LH}			326,5
MAIN G_{1RH}			328,0
NOSE G_2			133,0
		Empty Weight	787,5

Lever Arm
X_{1LH} = 2739
X_{1RH} = 2739
X_2 = 955

Calculate the Empty Weight, G = MAIN G_{1LH} + MAIN G_{1RH} + NOSE G_2.	G = 787,5 kg
Calculate the Empty Weight Moment, $M = (G_{1LH} * X_{1LH}) + (G_{1RH} * X_{1RH}) + (G_2 * X_2)$.	M = 1919,7 kg m
Calculate the Empty Weight Center-of-Gravity position, X_{CG} = M/G.	X_{CG} = 2,4377 m
Maximum permitted all-up-weight: Max AUW (see AFM).	1150 kg
Maximum useful load = Max AUW - G.	362,5 kg

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

Place/Date	Authorizing Stamp	Authorizing Signature
LOAN, 04.12.25	Diamond Aircraft Lic. No. AT.66.977	

Figure 6: Weighing Report for Mechanical Scales Under the Wheels