

### WEIGHING REPORT

Model: DA 42 Serial Number: 42.055 Registration: D-GBBB

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

Reference Plane: Vertical plane 2196 mm (86.46 in) in front of the leading edge of wing at the root rib.

Horizontal reference line: Front baggage compartment floor, left side.

Equipment Inventory - dated: 11/2023 Cause for Weighing: Refurbishment nacelle / SBs

#### Weight and Balance Calculations (Weighing at the wheels)

Weight Condition: Include brake fluid, hydraulic fluid, coolant, engine oil, unusable fuel main tanks (7.57 liters/ 2 US gal) and unusable fuel auxiliary tanks (if installed, 5.0 liters/ 1.32 US gal).

| Support               | Gross  | Tare | Net            | Lever Arm                            |
|-----------------------|--------|------|----------------|--------------------------------------|
| MAIN G <sub>1LH</sub> | 532 kg |      | 532 kg         | X <sub>1LH</sub> = 2,78 m (...X in.) |
| MAIN G <sub>1RH</sub> | 538 kg |      | 538 kg         | X <sub>1RH</sub> = 2,78 m (...X in.) |
| NOSE G <sub>2</sub>   | 257 kg |      | 257 kg         | X <sub>2</sub> = 0,93 m (...X in.)   |
| <b>Empty Weight</b>   |        |      | <b>1327 kg</b> |                                      |

|   |                         |
|---|-------------------------|
| Calculate the Empty Weight, G = MAIN G <sub>1LH</sub> + MAIN G <sub>1RH</sub> + NOSE G <sub>2</sub> .   | G = 1327 kg             |
| Calculate the Empty Weight Moment,<br>M = (G <sub>1LH</sub> * X <sub>1LH</sub> ) + (G <sub>1RH</sub> * X <sub>1RH</sub> ) + (G <sub>2</sub> * X <sub>2</sub> ). | M =<br>3213,61kgm       |
| Calculate the Empty Weight Center-of-Gravity position, X <sub>CG</sub> = M/G.   | X <sub>CG</sub> = 2,421 |
| Maximum permitted all-up-weight: Max AUW.   | 1785kg                  |
| Maximum useful load = Max AUW - G.  | 458kg                   |

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

|                                |                       |                           |
|--------------------------------|-----------------------|---------------------------|
| Place/Date<br>EDFE, 10.11.2023 | Authorizing Stamp<br> | Authorizing Signature<br> |
|--------------------------------|-----------------------|---------------------------|

Figure 4: Weighing Report for Mechanical Scales Under the Wheels