

WEIGHING REPORT

Model: DA 40 Serial Number: 40.762 Registration: PH-WOH

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: 16-12-07 Cause for Weighing: update to 1200 kg mTom

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: 2×0.5 US gal / 2×1.9 liters; TAE: 2×1 US gal / 2×3.8

iters).

| Support | Gross | Tare | Net |
|-----------------------|-------|-------------|-------|
| MAIN G _{1LH} | 351.1 | 0 | 351.1 |
| MAIN G _{1RH} | 359.2 | 0 | 359.2 |
| NOSE G₂ | 105.2 | 0 | 105.2 |
| | E | mptv Weight | 815.5 |

| Lever Arm | |
|--------------------------|-----|
| X1LH = 2.736 | |
| X _{1RH} = 2.735 | |
| $X_2 = 0.37$ | WER |

| Calculate the Empty Weight, $G = MAIN G_{1LH} + MAIN G_{1RH} + NOSE G_2$. | G= 815.5 | kg |
|--|-------------------------|--------|
| Calculate the Empty Weight Moment, $M = (G_{1LH} * X_{1LH}) + (G_{1RH} * X_{1RH}) + (G_2 * X_2).$ | M= 2045.07 | leg/mt |
| Calculate the Empty Weight Center-of-Gravity position, $X_{CG} = M/G$. | X _{cg} = 2.507 | MER |
| Maximum permitted all-up-weight: Max AUW (see AFM). | 1200 | ha |
| Maximum useful load = Max AUW - G. | 384.5 | |

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

Place/Date
FIJ4 = 16-12-2019

Authorizing Standardonk
LIC-AML NL-10140

Authorizing Signature

Figure 6: Weighing Report for Mechanical Scales Under the Wheels

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Doc # 6.02.01

Rev. 7