

DAHER

REGISTRE INDIVIDUEL DE CONTROLE INDIVIDUAL INSPECTION RECORD

TBM 700

WEIGHT AND BALANCE REPORT

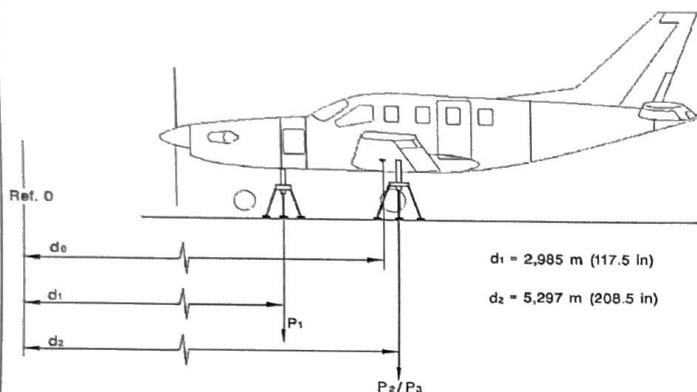
S/N : **1314**

6-SEAT CONFIGURATION

F : 6

Levelling :

Seat rails



Front wheel

Left and right
Wheel points

WEIGHING CARRIED OUT ON JACK POINTS

Painted airplane
With engine oil

	Gross Weight (lb)	Tare (lb)	Net Weight (lb)
Left point	1733,9		P2
Right point	1822,8		P3
Front point	1110,0		P1
Weight P0 (lbs) =		4666,7	

$$d0 = \frac{(P1 \times d1) + (P2 + P3) \times d2}{P0}$$

$$d0 = \frac{(1110 \times 117,5) + (1733,9 + 1822,8) \times 208,5}{4666,7} = 186,9$$

DISTANCE FROM C.G.
TO REFERENCE

CORRECTIONS

	Weight (lb)	Arm (in)	Moment (in * lb)
Weight P0	4666,7	186,9	871997,0
Paint (2)	66,2	494,8	42697,2
Engine oil (3)	24,7	82,3	2032,8
Unusable fuel	60,0	185,0	11100,0

RESULTS W: 4726,7 D0: 186,8 M: 883096,95

BALANCE
MAC (%)

$$CG = \frac{D0 - 172,9}{59,5} \times 100$$

$$CG = \frac{186,8 - 172,9}{59,5} \times 100 = 23,5$$

BASIC INDEX CALCULATION

See section 6 of Pilot's Operating Handbook

Empty weight (W) : 4726,7 lb

Balance (CG) : 23,5 %

Moment (M) : 883097,0

1 - Scratch useless mention.

2 - Values not taken into account if the airplane was painted when weighed.

3 - Values not taken into account if the oil tank was full when the airplane was weighed.

DATE : 12/12/2019

INSPECTION VISA :

