

FI_MFI_003

Revision nº. 02
Date: 04/09/2019**WEIGHT AND BALANCE SHEET**
SUPER PETREL LS

Serial N°: S0378

WEIGHT AND BALANCE

	STATION (in)
DATUM (MAIN LANDING GEAR SHAFT)	0
PILOT	33
PASSENGER	33
FUEL	12
BAGGAGE	13
BALLAST	82,5
NOSE WHEEL	81

STANDARD OCCUPANT WEIGHT (lb)	190,0
STANDARD OCCUPANT WEIGHT (lb) (FOR MINIMUM FLYING WEIGHT)	120,0
AIRCRAFT'S FUEL CAPACITY (gal)	25,0
FUEL RESERVE CAPACITY (lb)	11,0
MAX. WEIGHT OF BAGGAGE (lb)	66,0

*ARMS POSITIVE IN FRONT OF DATUM

EMPTY WEIGHT C.G. (EWCG)

ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
LEFT WHEEL	431,2	0	0,0
RIGHT WHEEL	416,9	0	0,0
NOSE	-1,1	81	-89,1
TOTAL	847,0		-89,1

$$EWCG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

EWCG (in) **-0,1**

*INCLUDING ALL FLUIDS AND EQUIPMENTS ON EQUIPMENT LIST

FORWARD C.G.

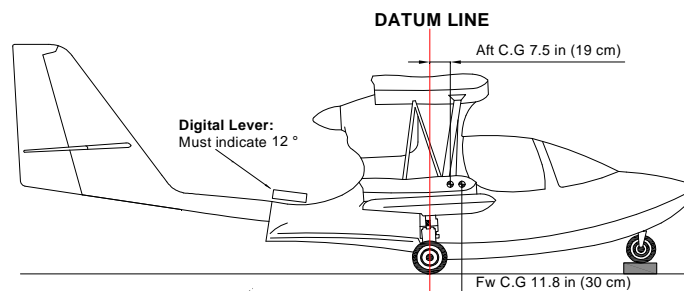
ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
EMPTY WEIGHT	847,0	-0,1	-89,1
PILOT	190,0	33	6270,0
PASSENGER	190,0	33	6270,0
FUEL	150,0	12	1800,0
BAGGAGE	53,0	13	689,0
MOVABLE BALLAST	0,0	82,5	0,0
TOTAL	1430,0		14939,9

$$CG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

CG_{FORWARD} (in) **10,4****AFT C.G.**

ITEM	WEIGHT (Lb)	ARM (in)	MOMENT (in.lb)
EMPTY WEIGHT	847,0	-0,1	-89,1
PILOT	120,0	33	3960,0
PASSENGER	0,0	33	0,0
FUEL	11,0	12	132,0
BAGGAGE	0,0	13	0,0
MOVABLE BALLAST	44,4	82,5	3665,3
TOTAL	1022,4		7668,2

$$CG = \frac{\sum MOMENTS}{\sum WEIGHTS}$$

CG_{AFT} (in) **7,5**

Responsible: Fernando Abbud

Date: October 27th, 2020