

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 02/WB/VI/2020
DATE : 19 JUNE 2020

AIRCRAFT REGISTRATION : PK-SNH
AIRCRAFT TYPE : C208B EX
AIRCRAFT SERIAL NUMBER : 208B-5587
PROPERTY OF : PT. SMART CAKRWALA AVIATION
PLACE OF WEIGHING : WICHITA
REASON OF WEIGHING : APE STOL MODIFICATION
CONFIGURATION : CARGO
PERFORMED BY : YINLING AIRCRAFT, INC.
SIGNED: DATE: 3/16/2020
CHECKED BY : YINLING AIRCRAFT, INC.
SIGNED: DATE: 3/16/2020

RESULTS

EMPTY WEIGHT	: 5085.11
EMPTY C.G FROM DATTUM LINE	: 188.80
INDEX MAC %	: 16.91 %
VALID UNTIL	: 16 MARCH 2025

WEIGHING EQUIPMENT

PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:



**YANUAR ABDUL FATAH
CHIEF INSPECTOR**

AIRCRAFT WEIGHT & BALANCE

TABEL1

BASIC ITEM NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
APE STOL KIT STC #: SAO1805SE	5.80	203.00	1.17
BENCH ASSY 4 ND ROW-RH	46.30	267.69	12.39
SINGLE SEAT ASSY 5 ND ROW-LH	25.10	285.55	7.16
TOTAL	77.2	268.63	20.73

TABEL 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
SINGLE SEAT ASSY 2 ND ROW-LH REMOVED	25.10	177.55	4.45
SINGLE SEAT ASSY 3 ND ROW-LH REMOVED	25.10	213.55	5.36
SINGLE SEAT ASSY 4 ND ROW-LH REMOVED	25.10	249.55	6.26
SINGLE SEAT ASSY 5 ND ROW-LH REMOVED	25.10	285.55	7.16
BENCH ASSY 2 ND ROW-RH REMOVED	46.30	195.69	9.06
BENCH ASSY 3 ND ROW-RH REMOVED	46.30	231.69	10.72
BENCH ASSY 4 ND ROW-RH REMOVED	46.30	267.69	12.39
AFT COUCH, 2 PL REMOVED	34.89	347.14	12.11
TOTAL	274.19	246.32	67.54

TABEL 3

AIRCRAFT WEIGHING REPORT	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL)	5258	190.56	1001.96
WEIGHT FROM TABLE 1 (+)	77.2	268.63	20.73
SUB TOTAL	5335.2	191.68	1022.70
WEIGHT FROM TABLE 2 (-)	274.19	246.32	67.54
TOTAL	5061.01	188.71	955.11

BASIC EMPTY WEIGHT AND CENTER OF GRAVITY TABLE

ITEM	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL)	5061.01	188.71	955.11
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	206.4	4.97
BASIC EMPTY WEIGHT	5085.11	188.80	960.08

LOCATING PERCENT MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane} - 177.57}{0.6640}$$

$$= \frac{188.80 - 177.57}{0.6640}$$

$$= 16.91 \%$$

AIRCRAFT WEIGHT & BALANCE

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT TYPE		: CESSNA C208B EX CARAVAN		
AIRCRAFT REGISTRATION		: PK-SNH		
AIRCRAFT SERIAL NUMBER		: 208B-5587		
DATE OF WEIGHING		: 16 MARCH 2020		
NO.	DESCRIPTION	APPL	CHECK	REMARKS
A	STANDARD ITEMS			
1	All fuel tank EMPTY or recorded / FULL	√	Empty	-
2	All engine oil tanks EMPTY or recorded / FULL	√	Full	-
3	All others oil tanks FULL (included Propeller, Starters, Gearbox and Air Cycle)	√	Full	-
4	Hydraulic tanks FULL	√	Full	-
B	STANDARD EQUIPMENTS			
1	Technical supply or Flight Kits	X	N/A	-
2	Aircraft Books, Manuals and Papers	X	1 Bag	-
3	AXE	X	1 EA	-
4	Fire Extinguisher	√	1 EA	-
5	First Aid Kit	X	1 Box	-
6	Life Vests	X	11 EA	-
7	Life Raft	X	N/A	-
8	Survival Kit	X	N/A	-