

AIRCRAFT WEIGHT AND C.G DETERMINATION**REPORT NO : 019/WB/VIII/2019****DATE : 14 AUGUST 2019**

AIRCRAFT REGISTRATION	:	PK-SNK
AIRCRAFT TYPE	:	CESSNA C208 CARAVAN
AIRCRAFT SERIAL NUMBER	:	20800658
PROPERTY OF	:	PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING	:	WICHITA, USA
REASON OF WEIGHING	:	INITIAL
CONFIGURATION	:	9 PASSENGERS
PERFORMED BY	:	YINGLING AIRCRAFT INC.
CHECKED BY	SIGNED:	DATE: 14/08/2019
	SIGNED:	DATE: 14/08/2019

RESULTS

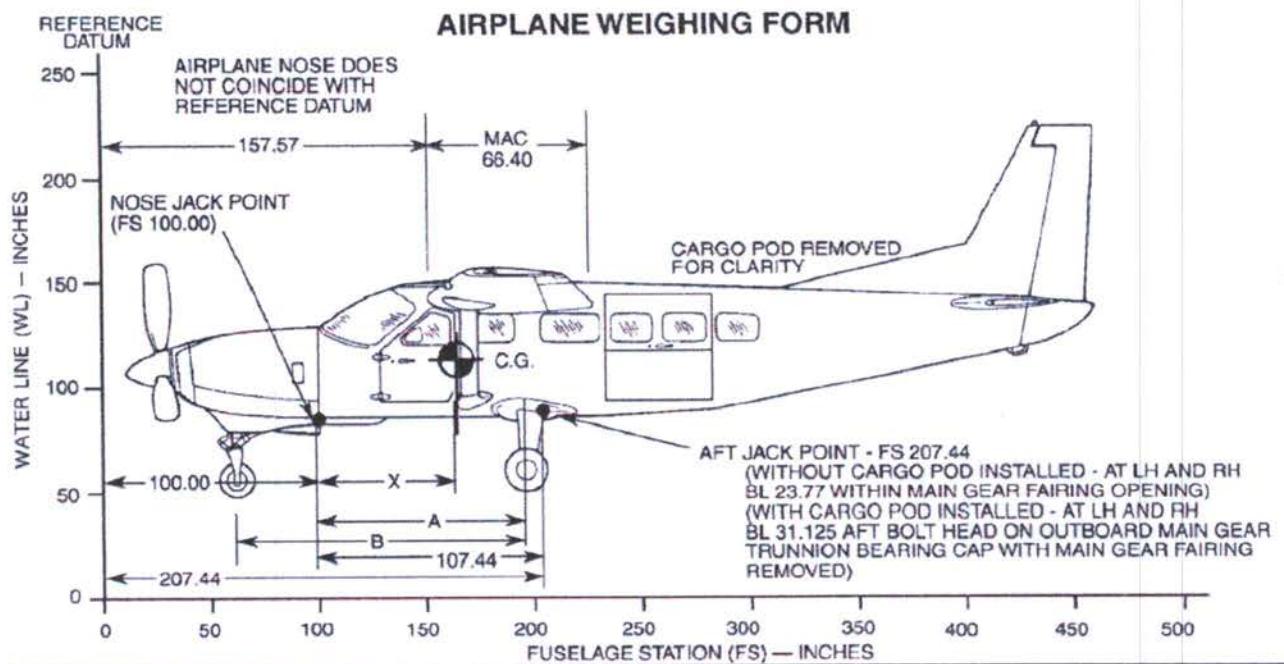
EMPTY WEIGHT	:	4908.77 LBS
C.G ARM OF AIRPLANE	:	174.36 IN
CG PERCENT MAC %	:	25.29 (PERCENT MAC)
VALID UNTIL	:	14 AUGUST 2024

WEIGHING EQUIPMENT

PART NUMBER	:	N/A
SERIAL NUMBER	:	N/A
VALIDATION	:	N/A

APPROVED BY:
Ilham Chairi
Chief Inspector

AIRCRAFT WEIGHT & BALANCE



$$A = 96.75 \text{ Inches}$$

$$B = 137.75 \text{ Inches}$$

AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2014	-	-	2014
RIGHT SIDE	2068	-	-	2068
NOSE	795	-	-	795
AIRPLANE TOTAL AS WEIGHT				4877

LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for longitudinal CG

$$(X) = \frac{(A)}{96.75} - \frac{(Nose \text{ Gear Net Weight}) (795) X (B) 137.75}{Nose \text{ and Main Landing Gear Weight Totaled (4877)}} = (74.30) \text{ Inches}$$

$$\text{CG Arm of Airplane} = 100 + (X) = (174.30) \text{ Inches Aft Datum}$$

MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

LEVELING PROVISIONS

LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00
LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS



AIRCRAFT WEIGHT & BALANCE

TABLE 1

BASIC ITEMS NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
2601323-3 Louvered Panel	1.30	78.83	0.10
3960235-1 (S1971-1 Wire)	0.57	290.73	0.17
Aircraft Payload Extender STOL	5.80	184.50	1.07
TOTAL	7.67	174.71	1.34

TABEL 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
TOTAL			

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)	4877	174.30	850.06
WEIGHT FROM TABLE 1 (+)	7.67	174.71	1.34
SUB TOTAL	4884.67	174.30	851.4
WEIGHT FROM TABLE 2 (-)			
TOTAL	4884.67	174.30	851.4

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)	4884.67	174.30	851.4
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	186.4	4.49
BASIC EMPTY WEIGHT	4908.77	174.36	855.89



AIRCRAFT WEIGHT & BALANCE

LOCATING PERCENT MAC

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane (174.36)} - 157.57}{0.6640}$$

$$= 25.29 \%$$

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 020/WB/VIII/2019

DATE : 14 AUGUST 2019

AIRCRAFT REGISTRATION : PK-SNK
AIRCRAFT TYPE : CESSNA C208 CARAVAN
AIRCRAFT SERIAL NUMBER : 20800658
PROPERTY OF : PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING : WICHITA, USA
REASON OF WEIGHING : INITIAL
CONFIGURATION : CARGO
PERFORMED BY : YINGLING AIRCRAFT INC.
SIGNED: DATE: 14/08/2019
CHECKED BY : YINGLING AIRCRAFT INC.
SIGNED: DATE: 14/08/2019

RESULTS

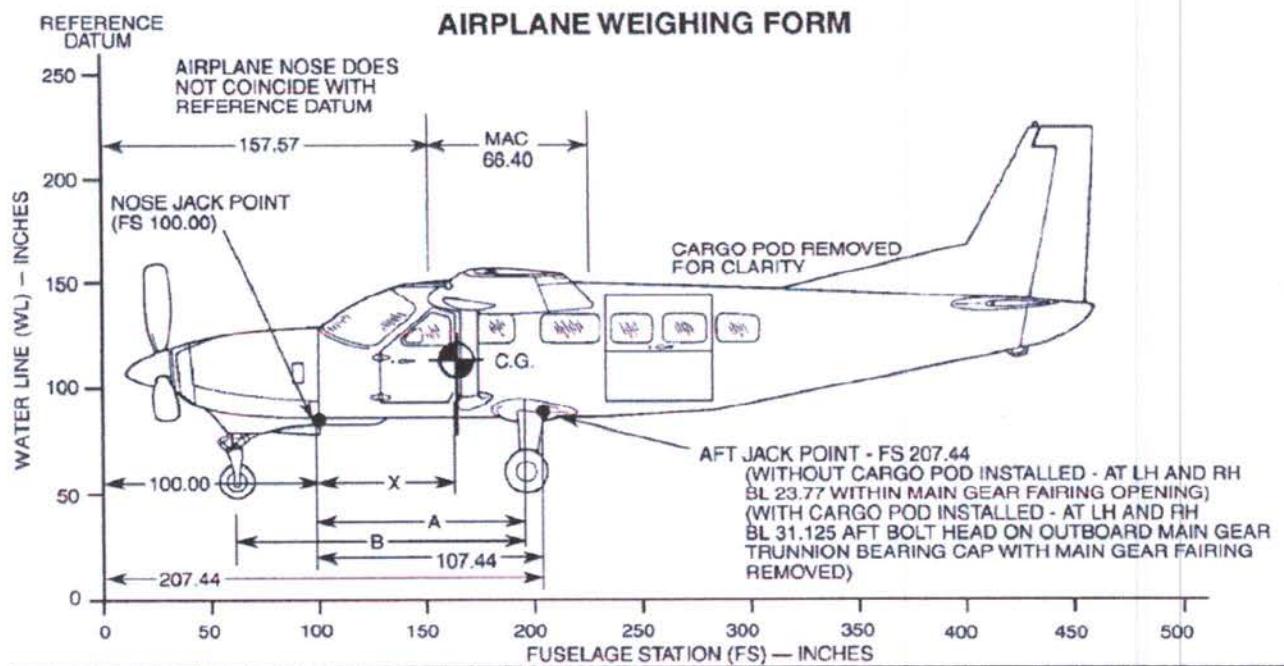
EMPTY WEIGHT	: 4758.17 LBS
C.G ARM OF AIRPLANE	: 173.37 IN
CG PERCENT MAC %	: 23.79 (PERCENT MAC)
VALID UNTIL	: 14 AUGUST 2024

WEIGHING EQUIPMENT

PART NUMBER	: N/A
SERIAL NUMBER	: N/A
VALIDATION	: N/A

APPROVED BY:


Ilham Chairi
Chief Inspector



$$A = 96.75 \text{ Inches}$$

$$B = 137.75 \text{ Inches}$$

AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2014	-	-	2014
RIGHT SIDE	2068	-	-	2068
NOSE	795	-	-	795
AIRPLANE TOTAL AS WEIGHT				4877

LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for longitudinal CG

$$(X) = \frac{(A)}{96.75} - \frac{(Nose \text{ Gear Net Weight}) (795) \times (B) 137.75}{Nose \text{ and Main Landing Gear Weight Totaled (4877)}} = (74.30) \text{ Inches}$$

$$\text{CG Arm of Airplane} = 100 + (X) = (174.30) \text{ Inches Aft Datum}$$

MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

LEVELING PROVISIONS

 LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00
 LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS



AIRCRAFT WEIGHT & BALANCE

TABLE 1

BASIC ITEMS NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
2601323-3 Louvered Panel	1.30	78.83	0.10
3960235-1 (S1971-1 Wire)	0.57	290.73	0.17
Aircraft Payload Extender STOL	5.80	184.50	1.07
TOTAL	7.67	174.71	1.34

TABEL 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
Single Seat Assy 2 ND Row - LH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - LH	25.10	205.55	5.16
Single Seat Assy 4 TH Row - LH	25.10	237.55	5.96
Single Seat Assy 2 ND Row - RH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - RH	25.10	205.55	5.16
Single Seat Assy 4 TH ROW - RH	25.10	237.55	5.96
TOTAL	150.6	205.58	30.96

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)	4877	174.30	850.06
WEIGHT FROM TABLE 1 (+)	7.67	174.71	1.34
SUB TOTAL	4884.67	174.30	851.4
WEIGHT FROM TABLE 2 (-)	150.6	205.58	30.96
TOTAL	4734.07	173.30	820.44

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)	4734.07	173.30	820.44
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	186.4	4.49
BASIC EMPTY WEIGHT	4758.17	173.37	824.93



AIRCRAFT WEIGHT & BALANCE

LOCATING PERCENT MAC

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane (173.37)} - 157.57}{0.6640}$$

$$= 23.79 \%$$

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 021/WB/VIII/2019

DATE : 14 AUGUST 2019

AIRCRAFT REGISTRATION : PK-SNK
AIRCRAFT TYPE : CESSNA C208 CARAVAN
AIRCRAFT SERIAL NUMBER : 20800658
PROPERTY OF : PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING : WICHITA, USA
REASON OF WEIGHING : INITIAL
CONFIGURATION : 9 PASSENGERS without Cargo Pod
PERFORMED BY : YINGLING AIRCRAFT INC.
SIGNED: DATE: 14/08/2019
CHECKED BY : YINGLING AIRCRAFT INC.
SIGNED: DATE: 14/08/2019

RESULTS

EMPTY WEIGHT	: 4765.92 LBS
C.G ARM OF AIRPLANE	: 173.69 IN
CG PERCENT MAC %	: 24.28 (PERCENT MAC)
VALID UNTIL	: 14 AUGUST 2024

WEIGHING EQUIPMENT

PART NUMBER	: N/A
SERIAL NUMBER	: N/A
VALIDATION	: N/A

APPROVED BY:

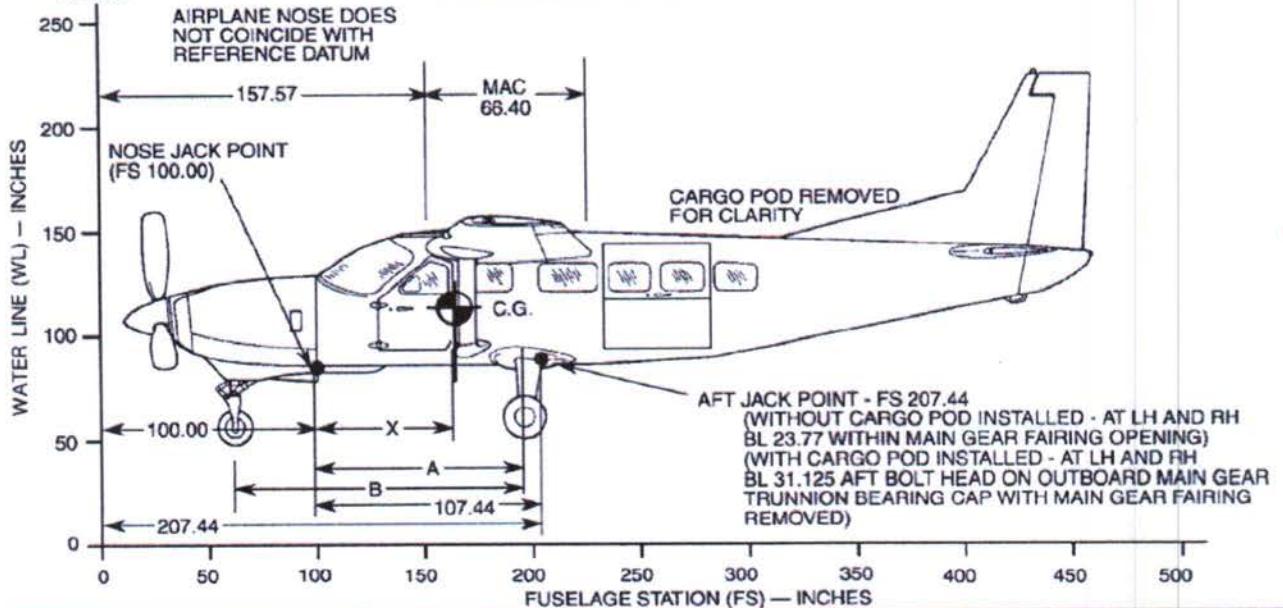

Ilham Chairi
Chief Inspector



AIRCRAFT WEIGHT & BALANCE

**REFERENCE
DATUM**

AIRPLANE WEIGHING FORM



A = 96.75 Inches
B = 137.75 Inches

AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2014	-	-	2014
RIGHT SIDE	2068	-	-	2068
NOSE	795	-	-	795
AIRPLANE TOTAL AS WEIGHT				4877

LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for longitudinal CG

$$(X) = \frac{(A) 96.75 - \frac{(\text{Nose Gear Net Weight}) (795) \times (B) 137.75}{\text{Nose and Main Landing Gear Weight Totaled (4877)}}}{(74.30) \text{ Inches}}$$

CG Arm of Airplane = 100 + (X) = (174.30) Inches Aft Datum

MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

LEVELING PROVISIONS

LONGITUDINAL - LEFT SIDE OF
FUSELAGE AT FS 239.00 & 272.00
LATERAL - SEAT RAILS AFT OF
PILOT AND FRONT PASSENGER SEATS



AIRCRAFT WEIGHT & BALANCE

TABLE 1

BASIC ITEMS NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
2601323-3 Louvered Panel	1.30	78.83	0.10
3960235-1 (S1971-1 Wire)	0.57	290.73	0.17
Aircraft Payload Extender STOL	5.80	184.50	1.07
TOTAL	7.67	174.71	1.34

TABEL 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
Cargo Pod Inst	142.85	196.62	28.09
TOTAL	142.85	196.62	28.09

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)	4877	174.30	850.06
WEIGHT FROM TABLE 1 (+)	7.67	174.71	1.34
SUB TOTAL	4884.67	174.30	851.4
WEIGHT FROM TABLE 2 (-)	142.85	196.62	28.09
TOTAL	4741.82	173.63	823.31

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)	4741.82	173.63	823.31
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	186.4	4.49
BASIC EMPTY WEIGHT	4765.92	173.69	827.8



AIRCRAFT WEIGHT & BALANCE

LOCATING PERCENT MAC

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane (173.69)} - 157.57}{0.6640}$$

$$= 24.28 \%$$

AIRCRAFT WEIGHT AND C.G DETERMINATION**REPORT NO : 022/WB/VIII/2019****DATE : 14 AUGUST 2019**

AIRCRAFT REGISTRATION	:	PK-SNK
AIRCRAFT TYPE	:	CESSNA C208 CARAVAN
AIRCRAFT SERIAL NUMBER	:	20800658
PROPERTY OF	:	PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING	:	WICHITA, USA
REASON OF WEIGHING	:	INITIAL
CONFIGURATION	:	CARGO without Cargo Pod
PERFORMED BY	:	YINGLING AIRCRAFT INC.
	SIGNED:	DATE: 14/08/2019
CHECKED BY	:	YINGLING AIRCRAFT INC.
	SIGNED:	DATE: 14/08/2019

RESULTS

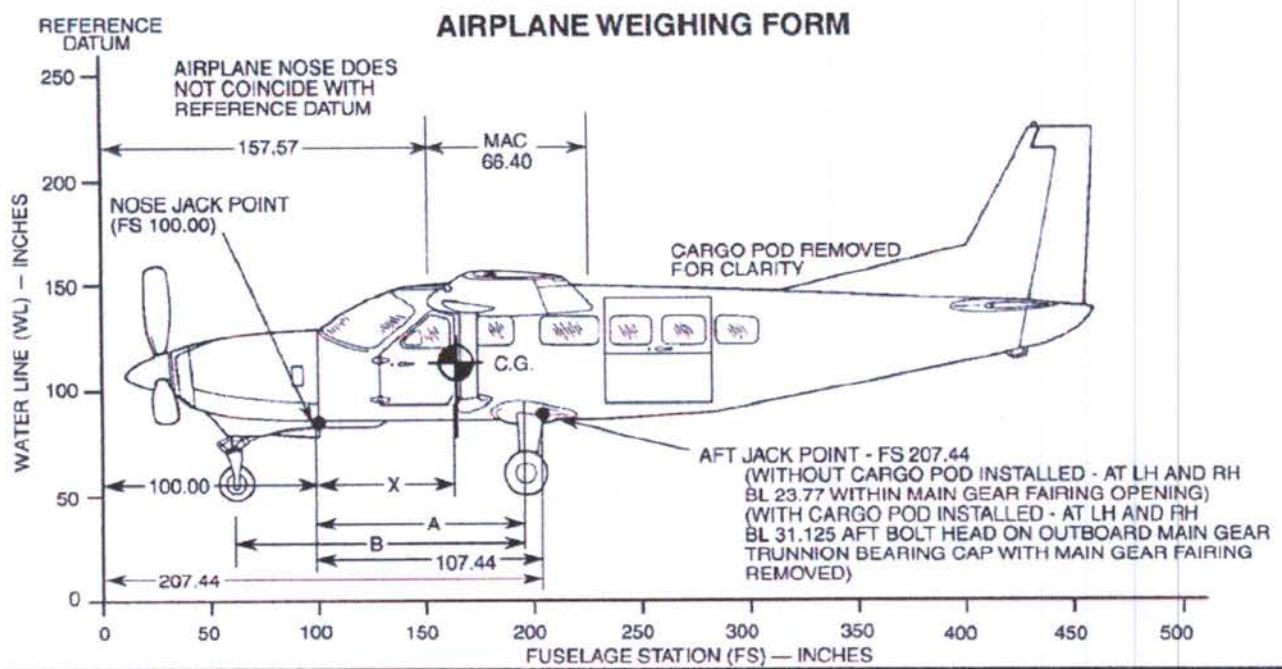
EMPTY WEIGHT	:	4615.32 LBS
C.G ARM OF AIRPLANE	:	172.66 IN
CG PERCENT MAC %	:	22.73 (PERCENT MAC)
VALID UNTIL	:	14 AUGUST 2024

WEIGHING EQUIPMENT

PART NUMBER	:	N/A
SERIAL NUMBER	:	N/A
VALIDATION	:	N/A

APPROVED BY:


Ilham Chairi
Chief Inspector


AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2014	-	-	2014
RIGHT SIDE	2068	-	-	2068
NOSE	795	-	-	795
AIRPLANE TOTAL AS WEIGHT				4877

LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for longitudinal CG

$$(X) = \frac{(A)}{96.75} - \frac{(Nose\ Gear\ Net\ Weight)(795) \times (B) 137.75}{Nose\ and\ Main\ Landing\ Gear\ Weight\ Totaled\ (4877)} = (74.30) \text{ Inches}$$

 CG Arm of Airplane = $100 + (X) = (174.30)$ Inches Aft Datum

MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

LEVELING PROVISIONS

 LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00
 LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS



AIRCRAFT WEIGHT & BALANCE

TABLE 1

BASIC ITEMS NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
2601323-3 Louvered Panel	1.30	78.83	0.10
3960235-1 (S1971-1 Wire)	0.57	290.73	0.17
Aircraft Payload Extender STOL	5.80	184.50	1.07
TOTAL	7.67	174.71	1.34

TABLE 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
Single Seat Assy 2 ND Row - LH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - LH	25.10	205.55	5.16
Single Seat Assy 4 TH Row - LH	25.10	237.55	5.96
Single Seat Assy 2 ND Row - RH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - RH	25.10	205.55	5.16
Single Seat Assy 4 TH Row - RH	25.10	237.55	5.96
Cargo Pod Instl	142.85	196.62	28.09
TOTAL	293.45	201.27	59.05

TABLE 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)	4877	174.30	850.06
WEIGHT FROM TABLE 1 (+)	7.67	174.71	1.34
SUB TOTAL	4884.67	174.30	851.4
WEIGHT FROM TABLE 2 (-)	293.45	201.27	59.05
TOTAL	4591.22	172.59	792.39

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)	4591.22	172.59	792.39
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	186.4	4.49
BASIC EMPTY WEIGHT	4615.32	172.66	796.88



AIRCRAFT WEIGHT & BALANCE

LOCATING PERCENT MAC

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane (172.66)} - 157.57}{0.6640}$$

$$= 22.73 \%$$

AIRCRAFT WEIGHT AND C.G DETERMINATION**REPORT NO : 023/WB/VIII/2019****DATE : 14 AUGUST 2019**

AIRCRAFT REGISTRATION	:	PK-SNK
AIRCRAFT TYPE	:	CESSNA C208 CARAVAN
AIRCRAFT SERIAL NUMBER	:	20800658
PROPERTY OF	:	PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING	:	WICHITA, USA
REASON OF WEIGHING	:	INITIAL
CONFIGURATION	:	AERIAL SURVEY
PERFORMED BY	:	YINGLING AIRCRAFT INC.
CHECKED BY	:	YINGLING AIRCRAFT INC.
	SIGNED:	DATE: 14/08/2019
	SIGNED:	DATE: 14/08/2019

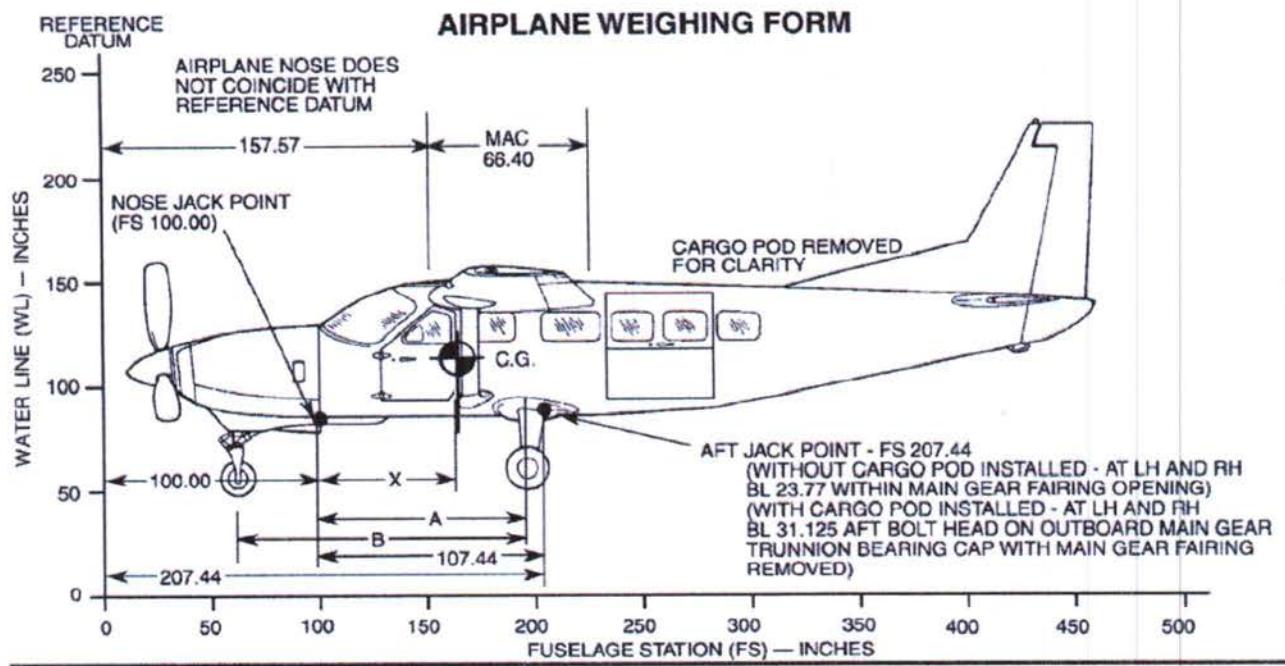
RESULTS

EMPTY WEIGHT	:	4665.52 LBS
C.G ARM OF AIRPLANE	:	173.29 IN
CG PERCENT MAC %	:	23.67 (PERCENT MAC)
VALID UNTIL	:	14 AUGUST 2024

WEIGHING EQUIPMENT

PART NUMBER	:	N/A
SERIAL NUMBER	:	N/A
VALIDATION	:	N/A

APPROVED BY:
Ilham Chairi
Chief Inspector



$$A = 96.75 \text{ Inches}$$

$$B = 137.75 \text{ Inches}$$

AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2014	-	-	2014
RIGHT SIDE	2068	-	-	2068
NOSE	795	-	-	795
AIRPLANE TOTAL AS WEIGHT				4877

LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for longitudinal CG

$$(X) = \frac{(A) 96.75 - \frac{(\text{Nose Gear Net Weight}) (795) X (B) 137.75}{\text{Nose and Main Landing Gear Weight Totaled (4877)}}}{= (74.30) \text{ Inches}}$$

$$\text{CG Arm of Airplane} = 100 + (X) = (174.30) \text{ Inches Aft Datum}$$

MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

LEVELING PROVISIONS

LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00
LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS



AIRCRAFT WEIGHT & BALANCE

TABLE 1

BASIC ITEMS NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
2601323-3 Louvered Panel	1.30	78.83	0.10
3960235-1 (S1971-1 Wire)	0.57	290.73	0.17
Aircraft Payload Extender STOL	5.80	184.50	1.07
TOTAL	7.67	174.71	1.34

TABEL 2

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS)
Single Seat Assy 2 ND Row - LH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - LH	25.10	205.55	5.16
Single Seat Assy 2 ND Row - RH	25.10	173.55	4.36
Single Seat Assy 3 RD Row - RH	25.10	205.55	5.16
Cargo Pod Instl	142.85	196.62	28.09
TOTAL	243.25	193.75	47.13

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)	4877	174.30	850.06
WEIGHT FROM TABLE 1 (+)	7.67	174.71	1.34
SUB TOTAL	4884.67	174.30	851.4
WEIGHT FROM TABLE 2 (-)	243.25	193.75	47.13
TOTAL	4641.42	173.23	804.01

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)	4641.42	172.23	804.01
DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALLON S/N 208B0090 And On	24.1	186.4	4.49
BASIC EMPTY WEIGHT	4665.52	173.29	808.5

LOCATING PERCENT MAC

FORMULA for Percent MAC

$$\text{CG Percent MAC} = \frac{\text{CG Arm of Airplane (173.29)} - 157.57}{0.6640} = 23.67 \%$$