# DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

	A37CE
	Revision 12
	CESSNA
208	
208A	
208B	
	June 15, 1999

## TYPE CERTIFICATE DATA SHEET NO. A37CE

This data sheet which is part of Type Certificate No. A37CE prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Cessna Aircraft Company

P. O. Box 7704

Wichita, Kansas 67277

# Model 208, Caravan I, 10 PCLM (Normal Category), Approved October 23, 1984; 10 PCSM (Normal Category), Approved March 26, 1986

Engine [Applicable to S/N 20800001 through 20800276]

Pratt & Whitney of Canada Ltd., PT6A-114 Turbo Prop Pratt & Whitney of Canada, Ltd., PT6A-114A Turbo Prop (When operated to PT6A-114 operating limitations)

Engine [Applicable to S/N 20800277 and Up]

Pratt & Whitney of Canada, Ltd., PT6A-114A Turbo Prop

Fuel

of

Aviation turbine fuel Jet A, Jet A-1, Jet B, JP-1, JP-4, JP-5 or JP-8. For required use anti-icing additives and emergency use of aviation gasoline, refer to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Engine Limits: [Applicable to S/N 20800001 through 20800276]

P&W PT6A-114 or PT6A-114A when operated to PT6A-114 operating limits

	TWW TIOTTITI	01 1 1011 11 111	when operated to 1 1	orr rr operaum	5 mmts
	NG Gas				Maximum
		Generator	Indicator	Prop Shaft	Permissible
	Shaft	Speed	Torque	Speed	Interturbine
	Horsepower	(% rpm)	(ftlbs.)	(rpm)	Temp. (°C)
Takeoff static &	·			·	
max. continuous	600 (1)	101.6	1658	1900	805
Maximum climb	600 (1)	101.6	$1658/1970^{(2)}$	1900	765
Maximum cruise	600 (1)	101.6	$1658/1970^{(2)}$	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	600 (1)	101.6	1658	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

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# I Model 208, Caravan I (cont'd)

Engine Limits:	[Applicable to S/N 20800277 and Up]	P&W PT6A-114A

2

		NG Gas			Maximum
		Generator	Indicator	Prop Shaft	Permissible
	Shaft	Speed	Torque	Speed	Interturbine
	Horsepower	(% rpm)	(ftlbs.)	(rpm)	Temp. (°C)
Takeoff static &					
max. continuous	675 (1)	101.6	1865	1900	805
Maximum climb	675 (1)	101.6	$1865/1970^{(2)}$	1900	765
Maximum cruise	675 (1)	101.6	$1865/1970^{(2)}$	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	675 (1)	101.6	1865	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

#### (1) Flat Rated:

The engines may produce more power than that for which the airplane has been certificated. Under these conditions, the stated torque, ITT, or Ng limitations shall not be exceeded.

(2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

Propeller and Propeller Limits [Applicable to S/N 20800001 through 20800276]:

Hartzell composite three-bladed, constant speed, full-feathering, reversible Model:

HC-B3MN3/M10083

Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved

Pitch at 42-inch station:

9° Low pitch (Beta pickup)  $78.4^{\circ}$ Feathered Maximum Reverse -18°

Propeller and Propeller Limits [Applicable to S/N 20800001 and Up]:

McCauley aluminum three-bladed, constant speed, full-feathering, reversible

Model: 3GFR34C703/106GA-0

Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on diameter

allowed)

Pitch at 30-inch station:

Low pitch (Beta pickup)  $+15.6^{\circ}$ 

Feathered  $+88^{\circ}$ 

Maximum Reverse -14°

*Airspeed Limits	V <sub>MO</sub> (Max Operating)	175 KIAS
S/N 20800001 through 20800060	V <sub>A</sub> (Maneuvering) at 7300 lbs.	148 KIAS
	See POH/AFM for variations with weig	ht and altitude.
	V <sub>EE</sub> (Flaps extended)	

To  $10^{\circ}$ **175 KIAS**  $10^{\circ}$  to  $20^{\circ}$ **150 KIAS**  $20^{\circ}$  to  $30^{\circ}$ **125 KIAS** 

**175 KIAS** \*Airspeed Limits V<sub>MO</sub> (Max Operating) S/N 20800061 and Up V<sub>A</sub> (Maneuvering) at 8000 lbs. **150 KIAS** 

See POH/AFM for variations with weight and altitude.

 $V_{\text{FE}}$  (Flaps extended)

To 10° 175 KIAS 10° to 20° 150 KIAS 20° to 30° 125 KIAS

## I Model 208, Caravan I (cont'd)

\*Airspeed Limits  $V_{MO}$  (Max Operating) 175 KIAS Amphibian  $V_{A}$  (Maneuvering) at 7600 lbs. 141 KIAS S/N 20800014 and Up See POH/AFM for variations with weight and altitude.

V<sub>FE</sub> (Flaps extended)

4

 To 10°
 175 KIAS

 10° to 20°
 150 KIAS

 20° to 30°
 125 KIAS

C.G. Range Takeoff, flight, and landing

 $S/N\ 2080001\ through\ 20800060 \qquad (+171.91)\ to\ (+182.68)\ at\ 7300\ lbs.$ 

(+162.41) to (+182.68) at 4200 lbs. Straight line variation between points given

C.G. Range Takeoff and flight

S/N 20800061 and Up (+174.06) to (+184.35) at 8000 lbs.

(+162.41) to (+184.35) at 4200 lbs.

Straight line variation between points given

Landing

(+173.44) to (+184.35) at 7800 lbs. (+162.41) to (+184.35) at 4200 lbs. Straight line variation between points given

C.G. Range Takeoff and flight

Amphibian (+172.83) to (+182.68) at 7600 lbs. S/N 20800014 and Up (+165.47) to (+182.68) at 5200 lbs.

Straight line variation between points given

Landing

(+171.91) to (+182.68) at 7300 lbs. (+165.47) to (+182.68) at 5200 lbs. Straight line variation between points given

Empty Wt. C.G. Range None

Maximum Weight 7300 lb. takeoff, flight, and landing

S/N 2080001 through 20800060 7335 lb. ramp

Maximum Weight 8000 lb. takeoff and flight

S/N 20800061 and Up 7800 lb. landing

8035 lb. ramp

Maximum Weight 7600 lb. takeoff and flight

Amphibian 7300 lb. landing S/N 20800014 and Up 7635 lb. ramp

No. of Seats 1 through 10 (2 at +133.5 to +146.5, 2 at +169.6, 1 at +185.9, 2 at +201.9,

1 at +217.9, 2 at +233.9)

1 through 10 (2 at +133.5 to +146.5, 2 at +166.5, 2 at +193.5, 2 at +220.5,

1 at +245.5, 1 at +248.5)

Refer to current Pilot's Operating Handbook and FAA Approved Airplane Flight

Manual for other seating arrangements.

Maximum Baggage Reference weight and balance data

Fuel Capacity 335 gal. (332 gal. usable), two 167.5 gal. tanks in wings at +183.8

See NOTE 1 for data on unusable fuel.

## I Model 208, Caravan I (cont'd)

Oil Capacity 3.5 gal. total, 2.37 gal. usable in engine mounted tank at +69.2

Maximum Operating 30,000 ft. - Landplane Altitude 20,000 ft. - Amphibian

Control Surface Wing flaps  $0^{\circ} \pm 1^{\circ} \text{ Up}, 10^{\circ} + 0^{\circ} - 2^{\circ} \text{ Down}, 20^{\circ} \pm 2^{\circ} \text{ Down},$ Movements  $30^{\circ} + 1^{\circ} - 2^{\circ} \text{ Down}$ 

LH & RH Flap Extension to be symmetric within 1/2° at all positions

Main surfaces

Ailerons Up  $25^{\circ} + 4^{\circ} - 0^{\circ}$ Down  $16^{\circ} + 1^{\circ} - 0^{\circ}$  $0^{\circ}$  +0° -5° Spoiler Up 40° ±5° Down Up  $25^{\circ} + 2^{\circ}$ Down  $20^{\circ} + 2^{\circ}$ Elevator Right  $25^{\circ} \pm 2^{\circ}$ Left  $25^{\circ} + 2^{\circ}$ Rudder (Landplane) (Amphibian) Right  $23^{\circ} + 2^{\circ}$ ,  $-0^{\circ}$ Left  $23^{\circ} + 2^{\circ}, -0^{\circ}$ 

(Measured perpendicular to hinge line)

Tabs (main surfaces in neutral)

Aileron (RH) Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ Elevator Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ 

Tabs servo actions

Aileron (RH) (tab adjusted to neutral) 50% of aileron travel  $\pm 1^{\circ}$  Up and Down

Aileron (LH) 50% of aileron travel +1° Up and Down

Serial Nos. Eligible 20800001 and up - Landplane

20800014 and up - Amphibian with Wipine Model 8000 amphibious floats.

# II - Model 208A, Caravan I, 2 PCLM (Normal Category), Approved February 11, 1985

Engine Pratt & Whitney of Canada Ltd., PT6A-114 Turbo Prop

Pratt & Whitney of Canada Ltd., PT6A-114A Turbo Prop (When operated to PT6A-114 operating limitations)

Fuel Aviation turbine fuel Jet A, Jet A-1, Jet B, JP-1, JP-4, JP-5 or JP-8. For required use of

anti-icing additives and emergency use of aviation gasoline, refer to the Pilot's

Operating Handbook and FAA Approved Airplane Flight Manual.

Engine Limits P&W PT6A-114 or PT6A-114A when operated to PT6A-114 operating limits

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	NG Gas			Maximum
	Generator	Indicator	Prop Shaft	Permissible
Shaft	Speed	Torque	Speed	Interturbine
Horsepower	(% rpm)	(ftlbs.)	(rpm)	Temp. (°C)
600 (1)	101.6	1658	1900	805
600 (1)	101.6	$1658/1970^{(2)}$	1900	765
600 (1)	101.6	$1658/1970^{(2)}$	1900	740
-	52 min.	-	-	685
-	-	-	-	1090
600 (1)	101.6	1658	1825	805
-	102.6	2200	2090	850
	Shaft Horsepower  600 (1) 600 (1) 600 (1)	NG Gas   Generator     Shaft   Speed     Horsepower   (% rpm)	NG Gas   Generator   Indicator     Shaft   Speed   Torque     Horsepower   (% rpm)   (ftlbs.)     600 (1)	Shaft         Generator Speed         Indicator Torque         Prop Shaft Speed           Horsepower         (% rpm)         (ftlbs.)         (rpm)           600 (1)         101.6         1658         1900           600 (1)         101.6         1658/1970(2)         1900           600 (1)         101.6         1658/1970(2)         1900           -         52 min.         -         -           -         -         -         -           600 (1)         101.6         1658         1825

#### (1) Flat Rated:

The engines may produce more power than that for which the airplane has been certificated. Under these conditions, the stated torque, ITT, or

Ng limitations shall not be exceeded.

# II - Model 208A, Caravan I (cont'd)

(2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

Propeller and

**Propeller Limits** 

Hartzell composite three-bladed, constant speed, full-feathering, reversible

Model: HC-B3MN3/M10083

Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved

Pitch at 42-inch station:

Low pitch (Beta pickup) $9^{\circ}$ Feathered $78.4^{\circ}$ Maximum Reverse $-18^{\circ}$ 

McCauley aluminum three-bladed, constant speed, full-feathering, reversible

Model: 3GFR34C703/106GA-0

Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on

diameter allowed)

Pitch at 30-inch station:

Low pitch (Beta pickup)  $+15.6^{\circ}$ Feathered  $+88^{\circ}$ Maximum Reverse  $-14^{\circ}$ 

\*Airspeed Limits

 $V_{MO}$  (Max Operating) 175 KIAS  $V_{A}$  (Maneuvering) at 8000 lbs. 150 KIAS See POH/AFM for variations with weight and altitude.

V<sub>FE</sub> (Flaps extended)

To 10° 175 KIAS 10° to 20° 150 KIAS 20° to 30° 125 KIAS

C.G. Range

Takeoff and flight

(+174.06) to (+184.35) at 8000 lbs. (+162.41) to (+184.35) at 4200 lbs. Straight line variation between points given

Landing

(+173.44) to (+184.35) at 7800 lbs. (+162.41) to (+184.35) at 4200 lbs. Straight line variation between points given

Empty Wt. C.G. Range

None

Maximum Weight 8000 lb. takeoff and flight

7800 lb. landing 8035 lb. ramp

No. of Seats

2 (+133.5 to +146.5)

Maximum Baggage

Reference weight and balance data

Fuel Capacity

335 gal. (332 gal. usable), two 167.5 gal. tanks in wings at +183.8

See NOTE 1 for data on unusable fuel.

Oil Capacity

3.5 gal. total, 2.37 gal. usable in engine mounted tank at +69.2

Maximum Operating Altitude

30,000 ft.

## II - Model 208A, Caravan I (cont'd)

Control Surface Movements Wing flaps  $0^{\circ} \pm 1^{\circ}$  Up,  $10^{\circ} + 0^{\circ} - 2^{\circ}$  Down,  $20^{\circ} \pm 2^{\circ}$  Down,  $30^{\circ} + 1^{\circ} - 2^{\circ}$  Down

LH & RH Flap Extension to be symmetric within  $1/2^{\circ}$  at all positions

Main surfaces

(Measured perpendicular to hinge line)

Tabs (main surfaces in neutral)

10

Aileron (RH) Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ Elevator Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ 

Tabs servo actions

Aileron (RH) (tab adjusted to neutral) 50% of aileron travel  $\pm 1^{\circ}$  Up and Down

Aileron (LH) 50% of aileron travel  $\pm 1^{\circ}$  Up and Down

Serial Nos. Eligible

20800007 through 20800102

# III - Model 208B, Caravan I, 2 PCLM (Normal Category), Approved October 9, 1986 Model 208B, Caravan I, 11 PCLM (Normal Category), Approved December 13, 1989

Engine

Pratt & Whitney of Canada Ltd., PT6A-114 Turbo Prop, S/N 208B0001 through S/N 208B0178 and 208B0180 through 208B0229, and as modified by SK208-84

Pratt & Whitney of Canada Ltd., PT6A-114A Turbo Prop,

- (a) S/N 208B0001 through S/N 208B0178 and 208B0180 through 208B0229 and as modified by SK208-84 when operated to PT6A-114 operating limits
- (b) S/N 208B0179, S/N 208B0230 and on, and as modified by SK208-80 S/N 208B0230 and on, and as modified by SK208-80

Fuel of

Aviation turbine fuel Jet A, Jet A-1, Jet B, JP-1, JP-4, JP-5 or JP-8. For required use anti-icing additives and emergency use of aviation gasoline, refer to the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

**Engine Limits** 

P&W PT6A-114 or PT6A-114A when operated to PT6A-114 operating limits

		NG Gas			Maximum
		Generator	Indicator	Prop Shaft	Permissible
	Shaft	Speed	Torque	Speed	Interturbine
	Horsepower	(% rpm)	(ftlbs.)	(rpm)	Temp. (°C)
Takeoff static &					
max. continuous	600 (1)	101.6	1658	1900	805
Maximum climb	600 (1)	101.6	$1658/1970^{(2)}$	1900	765
Maximum cruise	600 (1)	101.6	$1658/1970^{(2)}$	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	600 (1)	101.6	1658	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

# III - Model 208B (cont'd)

#### Engine Limits (cont'd)

### PT6A-114A (675 hp)

		NG Gas			Maximum
		Generator	Indicator	Prop Shaft	Permissible
	Shaft	Speed	Torque	Speed	Interturbine
	Horsepower	(% rpm)	(ftlbs.)	(rpm)	Temp. (°C)
Takeoff static &					
max. continuous	675 (1)	101.6	1865	1900	805
Maximum climb	675 (1)	101.6	1865/1970 <sup>(2)</sup>	1900	765
Maximum cruise	675 (1)	101.6	1865/1970 <sup>(2)</sup>	1900	740
Idle	-	52 min.	-	-	685
Starting (2 sec.)	-	-	-	-	1090
Max. reverse (1 min.)	675 (1)	101.6	1865	1825	805
Transient (2 sec.)	-	102.6	2200	2090	850

## (1) Flat Rated:

The engines may produce more power than that for which the airplane has been certificated. Under these conditions, the stated torque, ITT, or Ng limitations shall not be exceeded.

(2) If maximum torque is used, propeller r.p.m. must be set so as not to exceed power limitations.

Propeller and Propeller Limits

Hartzell composite three-bladed, constant speed, full-feathering, reversible

Model: HC-B3MN3/M10083

Diameter: Maximum 100 inches, minimum 100 inches, no cutoff approved

Pitch at 42-inch station:

Low pitch (Beta pickup) $9^{\circ}$ Feathered $78.4^{\circ}$ Maximum Reverse $-18^{\circ}$ 

McCauley aluminum three-bladed, constant speed, full-feathering, reversible

Model: 3GFR34C703/106GA-0

Diameter: Maximum 106 inches, minimum 104 inches (2-inch cutoff on

diameter allowed)

Pitch at 30-inch station:

Low pitch (Beta pickup) +15.6° Feathered +88° Maximum Reverse -14°

\*Airspeed Limits

 $V_{MO} \ (Max \ Operating) \qquad \qquad 175 \ KIAS$   $V_{A} \ (Maneuvering) \ at \ 8750 \ lbs. \qquad 148 \ KIAS$  See POH/AFM for variations with weight and altitude.

V<sub>FE</sub> (Flaps extended)

To 10° 175 KIAS 10° to 20° 150 KIAS 20° to 30° 125 KIAS

C.G. Range

### Takeoff and flight

(+199.15) to (+204.35) at 8750 lbs. (+193.37) to (+204.35) at 8000 lbs. (+179.60) to (+204.35) at 5500 lbs. Straight line variation between points given

## Landing

(+197.22) to (+204.35) at 8500 lbs.

(+193.37) to (+204.35) at 8000 lbs. (+179.60) to (+204.35) at 5500 lbs. Straight line variation between points given

## III - Model 208B (cont'd)

Empty Wt. C.G. Range N

None

Maximum Weight 8750 lb. takeoff and flight

8500 lb. landing 8785 lb. ramp

For Flight Into Known Icing:

With PT6A-114 engine and PT6A-114A when operated to PT6A-114 operating limits

8000 lb. takeoff and flight - cargo pod installed 8450 lb. takeoff and flight - cargo pod removed

With PT6A-114A (675 hp.) engine

8550 lb. takeoff and flight - cargo pod installed 8750 lb. takeoff and flight - cargo pod removed

No. of Seats 2 (+133.5 to +146.5) Pilot Seat Locations for Cargo and Passenger Versions.

1 through 10 (refer to POH for seat locations for the particular seating

configuration installed for passenger version only).

Maximum Baggage Reference weight and balance data

Fuel Capacity 335 gal. (332 gal. usable), two 167.5 gal. tanks in wings at +203.8

See NOTE 1 for data on unusable fuel.

Oil Capacity 3.5 gal. total, 2.37 gal. usable in engine mounted tank at +69.2

Maximum Operating 25,000 ft.

Altitude 20,000 ft. for Flight Into Known Icing

Control Surface Wing flaps  $0^{\circ} \pm 1^{\circ} \text{ Up, } 10^{\circ} + 0^{\circ} - 2^{\circ} \text{ Down, } 20^{\circ} \pm 2^{\circ} \text{ Down,}$ Movements  $30^{\circ} + 1^{\circ} - 2^{\circ} \text{ Down}$ 

LH & RH Flap Extension to be symmetric within 1/2° at all positions

Main surfaces

 Ailerons
 Up
  $25^{\circ} + 4^{\circ} - 0^{\circ}$  Down
  $16^{\circ} + 1^{\circ} - 0^{\circ}$  

 Spoiler
 Up
  $40^{\circ} \pm 5^{\circ}$  Down
  $0^{\circ} + 0^{\circ} - 5^{\circ}$  

 Elevator
 Up
  $25^{\circ} \pm 2^{\circ}$  Down
  $20^{\circ} \pm 2^{\circ}$  

 Rudder
 Right
  $25^{\circ} \pm 2^{\circ}$  Left
  $25^{\circ} \pm 2^{\circ}$ 

(Measured perpendicular to hinge line)

Tabs (main surfaces in neutral)

Aileron (RH) Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ Elevator Up  $15^{\circ} \pm 2^{\circ}$  Down  $15^{\circ} \pm 2^{\circ}$ 

Tabs servo actions

Aileron (RH) (tab adjusted to neutral)

50% of aileron travel  $\pm 1^{\circ}$  Up and Down Aileron (LH) 50% of aileron travel  $+1^{\circ}$  Up and Down

Serial Nos. Eligible 208B0001 and up

**Data Pertinent to All Models** 

Datum 100.00 in. forward of center of nose gear jack point (Landplane).

100.00 in. forward of front face of firewall (Amphibian).

Leveling Means Two jig located nutplates and screws installed on left side of fuselage

below side windows and forward of cargo door.

#### Data Pertinent to All Models (cont'd)

Certification Basis - Applies to Models 208, 208A and 208B when equipped with PW PT6A-114 engine and Hartzell propeller:

- (1) FAR Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 23-1 through 23-28.
- (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-12.
- (3) SFAR 27 effective February 1, 1974, as amended by Amendments 27-1 through 27-4.
- (4) Special Conditions as follows:
  - (a) 23-ACE-3; Dynamic Evaluation, Engine Installation.
- (5) Equivalent Level of Safety as follows [Applicable to Model 208B only]:
  - (a) FAR 23.955(f)(2), Fuel System.
- (6) Compliance with ice protection has been demonstrated in accordance with § 23.1419 when ice protection equipment is installed in accordance with the airplane equipment list and is operated per the Pilot's Operating Handbook FAA Approved Airplane Flight Manual.

#### Certification Basis - Applies to

- (a) Models 208, 208A and 208B when equipped with P&W PT6A-114 engine and McCauley propeller; and
- (b) Model 208B when equipped with P&W PT6A-114A engine and either McCauley or Hartzell propeller; and
- (c) Model 208 when equipped with P&W PT6A-114A engine and McCauley propeller:
- (1) FAR Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by Amendments 23-1 through 23-28.
- (2) FAR Part 36 effective December 1, 1969, as amended by Amendments 36-1 through 36-18.
- (3) SFAR 27 effective February 1, 1974, as amended by Amendments 27-1 through 27-4.
- (4) Special Conditions as follows:
  - (a) 23-ACE-3; Dynamic Evaluation, Engine Installation.
- (5) Equivalent Level of Safety as follows [Applicable to Model 208B only]:
  - (a) FAR 23.955(f)(2), Fuel System.
- (6) Compliance with ice protection has been demonstrated in accordance with § 23.1419 when ice protection equipment is installed in accordance with the airplane equipment list and is operated per the Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

Application for type certificate dated June 2, 1982. Type Certificate No. A37CE issued October 23, 1984, obtained by the manufacturer under delegation option provisions of Part 21 of the Federal Aviation Regulations.

**Production Basis** 

Production Certificate No. 4. Delegation Option Manufacturer No. CE-1 (2080001 through 20800246, 208B0001 through 208B0501) and CE-3 (20800247 and on, 208B0502 and on), and Delegation Option Manufacturer No. CE-3 (20800247 and on, 208B0502 and on) authorized to issue airworthiness certificates under delegation option provisions of Part 21 of the Federal Aviation Regulations.

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification. This equipment must include a current Pilot's Operating Handbook and FAA Approved Airplane Flight Manual.

## Data Pertinent to All Models (cont'd)

## NOTE 1

Current weight and balance report including list of equipment included in certificated empty weight and loading instructions, when necessary, must be provided for each aircraft at the time of original certification. The certified empty weight and corresponding center of gravity location must include full oil of 29 lbs. (at +69.2), and unusable fuel as follows:

MODEL	SERIAL EFFECTIVITY/MODIFICATION	UNUSABLE FUEL
		lbs. @ c. g.
208/208A	20800001 through 20800130 NOT modified with SK208-52	20.1 @ +185.7
208/208A	20800001 through 20800130 modified with SK208-52	24.1 @ +186.4
208	20800131 and On	24.1 @ +186.4
208B	208B0001 through 208B0089 NOT modified with SK208-52	20.1 @ +205.7
208B	208B0001 through 208B0089 modified with SK208-52	24.1 @ +206.4
208B	208B0090 and On	24.1 @ +206.4

NOTE 2 The placards specified in the Pilot's Operating Handbook and FAA Approved Airplane Flight Manuals listed below (or later revision) must be displayed:

MODEL	CESSNA PART
	NUMBER
208 [600 SHP]	D1307-27-13PH
208 [675 SHP]	D1352-13PH
208A	D1287-10-13PH
208B [600 SHP]	D1309-21-13PH
208B [675 SHP]	D1329-16-13PH

Model 208 airplanes modified in accordance with SK-208-12 should use Cessna P/N D1307-27-13PH (or later revision).

Model 208A airplanes modified in accordance with SK-208-85 should use Cessna P/N D1307-27-13PH (or later revision) along with Supplement P/N D1331-2-13 (or later revision).

- NOTE 3 Airplanes 20800001 through 20800060 are eligible for operation at the same weight and C.G. approved for S/N 20800061 and up when modified in accordance with SK-208-12 or SK-208-85.
- NOTE 4 Mandatory inspection times for all wing and wing carry through structural components are contained in the Model 208 Series Maintenance Manual.
- NOTE 5 In addition to the placards required by NOTE 2 above, the prescribed operating limitations indicated by an asterisk (\*) must also be displayed as permanent markings.

.....END.....