DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

A34CE
Revision 7
Textron Aviation Inc.
T303
July 29, 2015

TYPE CERTIFICATE DATA SHEET NO. A34CE

This data sheet which is part of Type Certificate No. A34CE 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	Textron Aviation Inc. One Cessna Boulevard Wichita, Kansas 67215
Type Certificate Holder Record	Cessna Aircraft Company transferred to Textron Aviation Inc. on July 29, 2015

I. Model T303, Crusader, 6 PCLM (Normal Category), Approved August 24, 1981

Engines	Continental Left - TSIO-520-AE Right - LTSIO-520-AE
*Fuel	100LL/100 Minimum Grade Aviation Gasoline (See NOTE 4 for optional anti-icing additive.) (See NOTE 7 for alcohol-based fuels warning.)
*Engine Limits	For all maximum continuous power operation, 2400 r.p.m., 32.5 in. M.P. (250 hp.) up to an altitude of 15,000 ft. in standard atmosphere. Above 15,000 ft. see schedule below:

Altitude	M.P.
15,000 ft.	32.5 in.
17,000 ft.	31.5 in.
19,000 ft.	30.5 in.
21,000 ft.	29.5 in.
23,000 ft.	28.5 in.
25,000 ft.	27.5 in.

For normal climb power operations, 2400 r.p.m., 24 in. M.P. (180 hp.) up to 25,000 ft. in standard atmosphere.

For maximum cruise power operations, 2400 r.p.m., 24 in. M.P. (180 hp.) up to 23,000 ft. in standard atmosphere. Above 23,000 ft. the M.P. to be 23 in.

I. Model T303 (cont'd)

Propeller and Propeller Limits

1. McCauley constant speed, full feathering propeller installations
   (a) (Left) McCauley 3AF32C506/82NEB-8 (P5065201-01)
   Diameter: Not over 74.0 in., not under 72.5 in. No further reduction permitted.
   Pitch settings at 30 in. Sta.:
   Low 19.6° to 18.7°, feather 81.3° to 80.0°
   (b) (Right) McCauley 3AF32C507/L82NEB-8 (P5075203-01)
   Diameter: Not over 74.0 in., not under 72.5 in. No further reductions permitted.
   Pitch settings at 30 in. Sta.:
   Low 19.6° to 18.7°, feather 81.3° to 80.0°
   (c) (Left) McCauley hydraulic governor DCFT290D16/T7, DCFTU290D16/T7, DCFTS290D15/T7, or DCFTUS290D15/T7
   (d) (Right) McCauley hydraulic governor DCFT290D11/T7, DCFTU290D11/T7, DCFTS290D10/T7, or DCFTUS290D10/T7
   (e) (Left) McCauley spinner and bulkhead assy. D5275-1 or D5275-2
   (f) (Right) McCauley spinner and bulkhead assy. D5275-1 or D5275-2

*Airspeed Limits

Never exceed210 KIAS

Maximum structural cruising	175 KIAS
Flaps extended	125 KIAS
Maneuvering	148 KIAS
Air minimum control speed	65 KIAS
Landing gear extended speed	210 KIAS
Landing gear operating speed	
Retraction	150 KIAS
Extension	175 KIAS

C.G. Range (Landing Gear Extended)

Takeoff and Flight
(+151.2) to (+157.2) at 5150 lbs.
(+146.5) to (+157.2) at 3800 lbs.
Straight line variation between points given

Landing gross weight for optional main gear wheel (6.50 x 8) and brakes is 5150 lbs.
Therefore landing C.G. range is same as takeoff and flight noted above.

Landing gross weight for standard main gear wheel (6.00 x 6) and brakes is 5000 lbs.
Therefore landing C.G. range is:
(+150.7) to (+157.2) at 5000 lbs.
(+146.5) to (+157.2) at 3800 lbs.
Straight line variation between points given

Empty Wt. C.G. Range

None

*Maximum Weight

5150 lb. takeoff and flight
5150 lb. landing with optional main gear wheel and brakes
5000 lb. landing with standard main gear wheel and brakes
4850 zero fuel, 5175 ramp

No. of Seats

6 (2 at +136 to +144, 2 at +170 to +180, 2 at +206 to +216)
T30300001 through T30300122 except T30300101

6 (2 at +136 to +144, 2 at +170 to +180, 2 at +206 to +226)
T30300101, T30300123 and up
See current Airplane Flight Manual for other seating arrangements

Maximum Baggage

Reference weight and balance data

I. Model T303 (cont'd)

Fuel Quantity	155 gal. (153 gal. usable), two 77.5 gal. tanks in wings at +161.5 See NOTE 1 for data on unusable fuel
Oil Capacity (Engine Sump & Filter)	9 qt. (+117.6)(4 qt. usable) each engine See NOTE 1 for data on undrainable oil
Maximum Operating Altitude	25,000 ft.
Control Surface Movements	Wing flaps 0° ±1° Up, 10° +0° -2° Down, 20° ±2° Down, 30° +1° -2° Down

Main surfaces

Ailerons	Up	25° ±1°	Down	15° ±1°
Elevator	Up	25° +2° -0°	Down	20° ±2°
Rudder	Right	30° ±2°	Left	30° ±2°

(Measured perpendicular to hinge line)

Tabs (main surfaces in neutral)

Aileron	Up	15° ±1°	Down	l5° ±1°
Elevator	Up	15° ±2°	Down	l5° ±2°
Rudder	Right	20° ±2°	Down	20° ±2°

(Measured perpendicular to hinge line)

Serial Nos. Eligible	T30300001 through T30300175 (except as shown in Note 6.) (1982 Model) T30300176 through T30300257 (except as shown in Note 6.) (1983 Model) T30300258 through T30300315 (1984 Model)

Data Pertinent to All Models

Datum	111.92 in. forward of depression in nose gear jack point.
Leveling Means	Two jig located nutplates and screws installed on left side of fuselage below side windows and forward of cabin door.

Certification Basis
Part 23 of the Federal Aviation Regulations dated February 1, 1965, as amended by 23-1 through 23-21 and Paragraphs 23.1545 and 23.1416 as amended by 23-23; in addition, FAR 36 dated December 1, 1969, as amended by 36-1 through 36-11.

Compliance with ice protection has been demonstrated in accordance with FAR 23.1419 when ice protection equipment is installed in accordance with the airplane equipment list.

Application for type certificate dated November 16, 1978. Type Certificate No. A34CE issued August 24, 1981, obtained by the manufacturer under delegation option procedures.

Production Basis
Production Certificate No. 4. Delegation Option Manufacturer No. CE-1 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 Airplane Flight Manual.

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 unusable fuel of 12 lb. at (+162.1) and full oil of 34 lb. at (+117.6).

Data Pertinent to All Models (cont'd)

NOTE 2. The placards specified in the FAA approved Airplane Flight Manuals listed below must be displayed:
T30300001 through T30300175 Cessna P/N D1596-13PH
T30300176 through T30300257 Cessna P/N D1602-13PH
T30300258 through T30300315 Cessna P/N D1607-13PH

NOTE 3. The cylinder head thermistors must be installed as follows:

	Cylinder Head Number
LH Engine	5
RH Engine	5

NOTE 4. 1% by volume isopropyl alcohol or .15% by volume ethylene glycol monomethyl ether approved for use as fuel anti-icing additive when used as outlined in Cessna Service Letter ME73-25 dated November 2, 1973, or subsequent revisions.

NOTE 5. Mandatory inspection times for all wing and wing carry through structural components are contained in the applicable Model T303 Series Maintenance Manual.

NOTE 6. The following serial numbers were not completed under Production Certificate No. 4 and are not eligible for U.S. Airworthiness Certificates.

T30300074	T30300167	T30300237
T30300092	T30300173	T30300240
T30300116	T30300193	T30300242
T30300138	T30300198	
T30300147	T30300202	
T30300150	T30300204	
T30300152	T30300214	
T30300154	T30300221	
T30300156	T30300225	
T30300158	T30300231	
T30300161	T30300234	
T30300164		

NOTE 7.

WARNING: Use of alcohol-based fuels can cause serious performance degradation and fuel system component damage, and is therefore prohibited on Cessna airplanes.

In addition to the placards specified above, the prescribed operating limitations indicated by an asterisk (*) under Section I of this data sheet must also be displayed as permanent markings.

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