European Aviation Safety Agency

EASA TYPE-CERTIFICATE DATA SHEET

PAC 750XL

Type Certificate Holder: PACIFIC AEROSPACE CORPORATION Ltd

Hamilton Airport Private Bag HN 3027 Hamilton NEW ZEALAND

Manufacturer: PACIFIC AEROSPACE CORPORATION Ltd

Hamilton Airport
Private Bag HN 3027
Hamilton
NEW ZEALAND

Issue 1: 12 April 2006

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SECTION A: 750XL

A.I. General

Data Sheet No.: EASA.IM.A.081 Issue: 01 Date: 12 April 2006

1. a) Type: 750XL b) Model: (reserved)

2. Airworthiness Category: CS23 Normal Category

3. Type Certificate Holder: PACIFIC AEROSPACE CORPORATION Ltd

Hamilton Airport Private Bag HN 3027

Hamilton NEW ZEALAND

4. Manufacturer: PACIFIC AEROSPACE CORPORATION Ltd

Hamilton Airport Private Bag HN 3027

Hamilton NEW ZEALAND

5. Certification Application Date:

a. To NZ-CAA : 25-Jan-2000 b. To EASA : 22-Oct-2004

6. NZ-CAA Type Certification: TC A-14 dated 23-July-2003

EASA Type Certification Date: 12 April 2006

A.II. Certification Basis

1. Reference Application Date for

a. EASA certification : 22-Oct-2004

2. Certification Basis: As defined in CRI A-1, latest issue

3. Airworthiness Requirements: CS 23 initial Issue

4. Requirements elected to comply: None

5. EASA Special Conditions: CRI A-5, Parachuting

CRI F-1, Protection from the effects of HIRF CRI F-2, Protection from the direct effects of

lightning strike

CRI F-3, Protection from the indirect effects of

lightning strike

6. EASA Exemptions: None

7. EASA Equivalent Safety Findings: CRI C-2, Airspeed limitations

8. EASA Environmental Standards: ICAO Annex 16, Volume 1, Part 2, Chapter 10

ICAO Annex 16, Volume 2, Part 2, Chapter 2

(See note 1)

A.III. Technical Characteristics and Operational Limitations

1. Type Design Definition: Set of drawings according to Master Drawing Index :

PAC Drawing No.11-00001-1

2. Description: Single-turbo-propeller engine, 2 seats, low wing airplane,

aluminium and steel structure, fixed tricycle landing gear,

normal empennage

3. Equipment: Equipment list, POH, Section 6.3

Dimensions:

 Span
 12.80 m (42 ft)

 Length
 11.84 m (38.1 ft)

 Height
 4.04 m (13.3 ft)

 Wing Area
 24.88 m² (267.8 ft²)

5. Engines: Pratt & Whitney PT6A-34

Certification basis: Transport Canada Type Certificate E-15

(See note 2)

Power Setting	Torque psi	Max ITT ℃	Gas Gen RPM % Ng	Prop RPM % Np	Oil Press psi	Oil Temp ℃	Shaft Horse- Power
Takeoff	64.5 (2)	790	101.6	91.2	85-105	10-99	750 (31℃)
Maximum Continous	54	740	101.6	91.2	85-105	10-99	633
Maximum Climb	54	740	101.6	91.2	85-105	0-99	633
Maximum	64.5 (2)	790	101.6	91.2	85-105	0-99	750
Cruise	54	740	101.6	91.2	85-105	0-99	633
Idle	-	685	52-54	-	40	-40 - 99	-
Maximum Reverse	64.5 (2)	790	101.6	86	85-105	0-99	-
Transient	68.4 (5)	850 (3)	102.6 (3)	100	85-105	0-99	-
Starting	-	1090 (3) (4)	-	-	-	-40	-

⁽¹⁾ All limits are based on sea level

6. Propellers: Hartzell Propeller Inc. Type HC-B3TN-3D/T10282NS+4

FAA Type Certificate P15EA

(See note 2)

Maximum Diameter: 2692 mm / 106 in Minimum Diameter: 2692 mm / 106 in

Number of Blades: 3 Low Pitch: 18.5° Feathered: 86.3° Maximum Reverse: -8.1°

7. Fluids:

^{(2) 5} minute time limit

⁽³⁾ These values are limited to two secs

⁽⁴⁾ Starting temperatures above 850°C should be inv estigated for cause

⁽⁵⁾ Time limited to 20 secs

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7.1 Fuel: Refer to POH, Section 2.5

7.2 Oil: Refer to POH, Section 2.5

8. Fluid capacities:

8.1 Fuel: Four structural wing tanks

Tanks	Total capacity	Unusable	Usable		
Front Left Tank (includes sump tank)	284 litres, 499 lbs	10 litres, 18 lbs	274 litres, 481 lbs		
	75 U.S. gallons	3 U.S. gallons	72 U.S. gallons		
Front Right Tank	293 litres, 515 lbs	10 litres, 18 lbs	283 litres, 497 lbs		
	77 U.S. gallons	3 U.S. gallons	74 U.S. gallons		
Rear Left Tank	142 litres, 249 lbs 37.5 U.S. gallons	0	142 litres, 249 lbs 37.5 U.S. gallons		
Rear Right Tank	142 litres, 249 lbs 37.5 U.S. gallons	0	142 litres, 249 lbs 37.5 U.S. gallons		
Total	861 litres, 1512 lbs	20 litres, 36 lbs	841 litres, 1476 lbs		
	227 U.S. gallons	6 U.S. gallons	221 U.S. gallons		

8.2 Oil: Total capacity 8.7 liters

9. Air Speeds:

 VNE (Never Exceed speed)
 170 KIAS

 VNO (Max. structural cruising speed)
 140 KIAS

 VA, VO (Manoeuvring speed)
 131 KIAS

 6500 lbs (3395 kg)
 131 KIAS

 6500 lbs (2941 kg)
 122 KIAS

 5500 lbs (2489 kg)
 112 KIAS

 4500 lbs (2036 kg)
 101 KIAS

 VFE (Maximum flaps extended speed)

Flaps 20° 130 KIAS Flaps 40° 120 KIAS

10. Maximum Operating Altitude: 20000 ft

11. Kinds of operation: Day & night VFR when appropriate equipment is installed

and operating correctly

Refer to approved POH, Section 2.2

12. Maximum Masses:

Take-Off 3395 kg (7500 lbs) Landing 3225 kg (7125 lbs)

13. Centre of Gravity Range:

Fwd limit: 2.55 m (100.46 in) aft of datum at 1905 kg (4209 lbs) 2.62 m (103.18 in) aft of datum at 2553 kg (5639 lbs)

2.83 m (111.55 in) aft of datum at 3395 kg (7500 lbs)

Aft Limit: 3.19 m (125.6 in) aft of datum at all weights

Straight line between points given.

14. Datum: Station 0.00 (2.545m (100.21 in) forward of wing leading edge)

15. Levelling Means:

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Longitudinally: Two bolts on fuselage upper longerons forward of LH main door.

Laterally: Top of inner wing main spar.

16. Minimum Flight Crew: 1 (Pilot)

17. Maximum Passenger Seating Capacity: 1

18. Baggage / Cargo Compartment

Cargo operations are allowed only if PAC modification PAC/XL/0208 or other EASA approved restraint system is installed.

Compartment Station 2.08 m (82 in) aft of datum to 2.92 m (115.0 in) 543 kg (1200 lbs) Compartment Station 3.00 m (118.0 in) aft of datum to 4.22 m (166.0 in) 543 kg (1200 lbs) Compartment Station 4.22 m (166.0 in) aft of datum to 6.10 m (240.0 in) 362 kg (800 lbs)

19. Wheels and Tires

19.1 Nose landing gear

Wheel base 3.17 m (10.5 in) Tire 8.50 x 6 in

19.2 Main landing gear

Track 3.68 m (12.1 in) Tire 8.50 x 10 in

20. Control Surface Movements

Elevator relative to tailplane :	Up	30°
•	Down	8.5°
Elevator tab relative to tailplane:	Up	10.5°
	Down	27.5°
Rudder relative to fin :	Right	25°
	Left	20°
Rudder tab relative to rudder:	Right	13°
	Left	13°
Ailerons relative to wing:	Up	23°
	Down	9.5°
Ailerons tab relative to ailerons :	Up	15°
	Down	20°
Flaps relative to wing:	Up	0°
	Take-off	21°
	Landing	40°

For all control surfaces except flaps, a tolerance of \pm 0.5° is applied. A tolerance of \pm 1° is applied to the flaps in the up and take-off positions, and \pm 1°/ -0° in the landing position.

21. Serial numbers eligible: 101 and up

A.IV. Operating and Service Instructions

Pilot Operating Handbook (POH) and EASA approved Flight Manual must be at revision 3, approved by NZCAA on 9 April 2006, or later approved revision.

Maintenance Manual PAC 750XL rev 3 of March 2004 with Chapter 4 "Airworthiness limitations" EASA approved dated 5 April 2006 and following revisions.

A.V. Notes

1. Approved Noise Levels in accordance to:

ICAO Annex 16, Vol. 1, App. 6, Chap. 10:

86.8 dB(A) for a limit of 88dB(A)

2. The EASA type certification standard includes that of Transport Canada TCDS based on individual EU member state acceptance or certification of this standard prior to 28 September 2003. Other standards confirming to TC/TCDS standards certificated by individual EU member state prior to 28 September 2003 are also acceptable.

CHANGE RECORD

Issue 1 12 April 2006; Initial Issue