Peter McFarlane

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MARINE INSPECTION

SURVEY REPORT

Power Catamaran: Muschi Khan **Date:** 06/12/2023

Owner: Paul Smith **Reg No:** Z1080Q

Surveyed: Ross Haven Marine, Townsville, QLD.

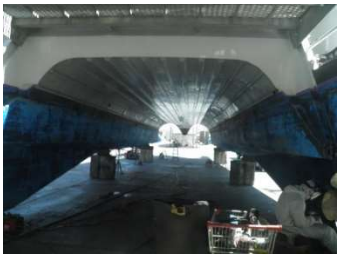
Design: Wave Piercer Cat. **Builder**: Aluminium Boats Australia

Launched: 2005 (rebuilt 2013)

L.O.A : 28.20m **Beam:** 8.00m **Draft:** 1.80m **Displacement:** 75 **Ton**



CONSTRUCTION DETAILS;



Type of hull material: Aluminium wave piercing Catamaran.

5 mm on bottom, 4mm on sides & 3mm superstructure.

Condition of hull: Good.

Frames/material: Alloy- 4mm web with rider bar@1m centres.

Condition: Good



Stringers: Aluminium – 3”x ½” & 2” x ½”.

Stem & stern posts: Aluminium.

Condition of posts: Good.

Deck: Aluminium

Size& thickness of decking: 3mm.

Condition: Good.

Deck Beams: Aluminium

Size & thickness of beams: 4mm x 50 mm a/bar @ 210 mm centres.

Condition: Good.

Fastenings of hull & deck: Fully welded.

Condition: Good.

Ballast type: Some lead for trimming.

Bulkheads: 4 off in each hull, aluminium plate, vertically stiffened.



Rudder assembly and bulkheads.

UNDERWATER HULL;

Shaft: 3 ¼" – S/Steel.





Condition: Good

Prop: 2 x 37"– Bronze **Blades:** 5 each.

Condition: Good.

Rudder Material: Alloy on skeg with S/Steel shaft.

Bottom bearing 2 ½".





Condition: Good.

Stern bearing: Dripless.

Skin fittings: 4 **For:** Engines.

Condition of skin fittings: Good



Overall condition of hull: Good.

Worm: Nil **Osmosis:** Nil **Rot:** Nil **Rust:** Nil.

Condition of anti-foul: New this slipping.

Bow thrusters: 2- being reconditioned this slipping.



Stern thrusters: 2- being reconditioned this slipping.

Chines: One **Anodes:** New. Anti-foul

Bow thruster





ABOVE WATER HULL & TOPSIDES;



Condition: Good.

Paint: two pack white.

DECK & HOUSING:



Safety Lines: Nil.

Stanchions: Alloy & well secured.

Duck board: Alloy, in good condition.



Hatches: Alloy on foredeck.



Condition: Good.

Deck fittings: All well secured.

Non-skid on decks: Yes.

Crane: 3 phase.

1x Ferrari F571RA22, 685kg remote controlled with Pullmaster PL5 winch.

1 x 415v capstan aft.

1 x 415v platform/tender lift.

Cockpit sun awning: Alloy in good condition.

Cockpit: Alloy in good condition.

Self-draining cockpit: Yes.

STEERING - WHEELHOUSE:

Material: Joystick control from bridge,

power assisted hydraulic, single ram per rudder.

Condition of steering: Good.

Emergency steering: Yes.



MACHINERY;

Engines: 2 x Diesel MTU Detroit 60 Series Turbo 750hp.

Fresh water cooled: Yes.

Engine Nos: Port-06R1050725 **Stbd**-06R1050645.



Gear box: Twin Disc – 2 x MG5114SC **Ratio**:2.54:1

Checked for oil/water leaks: Good condition.

Condition of exhaust & fuel systems: Good.

Shaft Drive: Yes.

Ball valves/shut off valves for motor through hull fittings: S/Steel.

Condition: Good.



Engine Mounts:

Good condition.

Dive Compressor: 1 x Bauer Mariner 200E.

Water Capacity: 2 x 1000 litres Poly tanks.

1 x 1000 litre poly grey water.

1 x 1000 litre poly black water.

Shut off valves/ ball valves: Yes **Condition:** Good.

Fuel Capacity: Total 20,000 litres- 2 Alloy tanks.

Shut off valves/ball valves: Yes **Condition:** Good.



Gen set: 2 x 37 kva Zenith Mecce Alte 2 x 24v,2 x 12v.

(Isuza)

Condition: Good.

Hot water system: 1 x Proflow Dux 53 **litres.**

1x Rheem 80 **Litres.**

Condition: Good.

Water Maker: 1 x Davey 240v- 150 **Litres.**

Condition: Good.



SAFETY EQUIPMENT; As required by QLD transport:

Nav lights: working.

Horn: 1 x electrical



Flares: All in date.

Fire extinguishers: (in green- powder)

Located throughout the accommodation & engine rooms.

2 x FE227 engine room smothering systems. Fire hose & blanket



Life Jackets (PDF 1): 30 **Condition:** Good.

V-sheet: Yes. **Signalling Device (torch etc.):** Yes.

EPIRBS: 406Mhz: 3 **Expiry Date:** In date.

Bilge Pumps: Bridge controls -1 x 24v submersible in each compartment.

1 x 240v submersible in each compartment



Condition of bilge pumps: Good.

TENDERS:

1 X Stabicraft 1750 Frontier alloy tender, centre console

with Yamaha 100hp outboard motor.

1 x Quintrex 400 Hornet with Yamaha 30hp outboard motor.

1 x Jetski.



Condition: All in good condition.



GROUND TACKLE;

Anchors:

2 x Manson 120 lb **Chain:**200m x 16mm.



Anchor winch: 3 phase Maxwell 6000.

Condition: Good.

ELECTRICS;



12v batteries: 9

Start batteries: 6 **House batteries:** 3

Isolating switch: Yes

Condition of batteries: Good.

Wired for 240v shore-power: Yes



Age of wiring: New new.

INSTRUMENTS:



Wheelhouse: All in working condition.

Compass: 1 x Plastimo - Offshore 135

1 x handheld.

GPS Compass: 1 x JRC Dynamic Sensor.

Monitors: 3 x Lg 23".



Computer: 1 x Solid state Multiplexer, C Max,

C Plot 1 x Toshiba laptop.

Barometer: 1 x Plastimo

Clock: 1 x Plastimo

Wind instruments: 1x B & G

Echo sounder: 2 x Koden - All Digital Colour LCD x 10.4 inch forward,
1 x Koden – All Digital Colour LCD x 10.4 inch aft.



3 x Airmar TechB166-SS 164 – 1 kw transducers.

VHF Radio: 1 x Icom IC M604, 4 x handheld.

GPS: 1 x JRC

Satellite Phone: 1 x Inmarsat Skipper 150 1 x Inmarsat 1 Sat Pro.

Radar: 1 x JRC JMA 3300 72nm AIS/MARP-JMA 6' scanner.

1 x JRC JMA 3300 48nm AIS/MARP JMA 2' enclosed scanner.

Auto Pilot: 1 x Simrad AP70.

HF Radio: 1 x Icom.

AM/FM Radio: Yes

TV/Video: Tracvision M 9 satellite system, LG LA 66 monitor.

2 x LG monitors, Yamaha Blueray.

Music system: Techview, Yamaha R-S700 receiver, Yamaha RX A2020.

Security: 1 x monitor with cameras throughout vessel.

GAUGES:/Motor Instrument Panel: MTU.

Fuel gauge: Yes

Temp gauge: Yes

Amp gauge: Yes

Oil gauge: Yes

Other: Hour & RPM.

Condition of instrument Panel: Good.

INTERIOR;



Interior hull & Fastenings: Good.

Bilge: clean& dry.

Pitch: Nil.

Condition of interior hull: Good.

Berths:



Separate cabins: Yes

Cabin with double & single berth to port.

Cabin with 3 x single berths to starboard.

Cabin with double berth to port.

Bridge deck: Cabin starboard side with double berth & ensuite.





Heads: Three.

24v toilet**.** Fresh water flush.

Holding tank: Yes.

Showers: Yes **Hot& cold water:** Yes

Hand-basins: ceramic. **Hot/cold:** 24v.





Main Cabin:

Nav. Station: Yes **Charts:** Yes

Air Conditioning: Daikin & Mitsubishi

Condition: near new.

Large saloon to starboard: settee & coffee table

TVs: Yes

Dinette: Folding tables on aft deck

Seats: 6





Galley:



Sink: S/steel.

Water pump: 24v **Hot/cold:** Yes.

Cooking facilities: 1 x ILVE s/s 5 burner & oven.

1 x Panasonic microwave. 1 x Beefeater BBQ.

Condition: Good.





Refrigeration: 2 x Miele s/s freezers.



2 x Miele s/s fridges.

1 x Westinghouse chest freezer 1 x wine/bar fridge.

Condition: Good

Dishwasher: Fisher & Paykel

Washing machine: Daewoo DW-900Ctwin tub



Dryer: Simpson 5kg.

Laundry & workshop.

BBQ aft with lockers & sink.





Summary:

The power catamaran, **MUSCHI KHAN** has been well built and is in good structural condition and is well maintained overall.

Disclaimer:

This report is the result of a visual inspection of the vessel and its equipment. I have not inspected other parts of the structure which are covered, unexposed or inaccessible and I am therefore unable to report that any such part of the structure is free from defects. Examples, or ballast or any permanently built-in items.

Machinery, electrical, auxiliary equipment and safety gear has been inspected as seen in position without dismantling or test. Whilst due care is taken in the compilation of this report it is not possible for a Surveyor to guarantee that the vessel is free of defects.

I am neither a diesel mechanic, rigger nor electrician, and if required, these trades people should be contacted for further report.

This report covers the state of the vessel at the time of inspection. All care is taken during inspection and this report is given in good faith. No guarantee can be given for any problems that could arise in the future.

This report is not transferable.



Peter McFarlane Date: 06/12/2023