

## S/Y Mad Fish

LOA : 12.20 metres

Beam: 7.25 metres

Draft 1.20 metres

Australian Registration ON 859364

Western Australian registration, expiry May 2024

Mad Fish was built in 2009 at Advanced Composite Systems and is a Gary Lidgard designed Fusion 40 performance cruising catamaran. Mad Fish was professionally built as a safe and comfortable live aboard vessel capable of extended periods offshore and in remote locations.

The vessel was assembled by Fusion Catamarans and then fitted out with emphasis being place on an inventory of good quality equipment which could be easily accessed for maintenance, along with consideration of how best to reduce unnecessary maintenance by minimising equipment being fitted outside in the elements and the use of products requiring constant up keep. The internal finish has also been fully faired and painted to reduce the necessity of internal linings and allow for easy cleaning and maintenance.

During the build particular attention was paid to ensure the internal layout was open allowing plenty of light to penetrate. Extra port lights were fitted and all openings fitted with fly screens. The tri-folding doors and sliding cockpit windows allow for good air flow through the boat. Almost everything has been hidden behind cupboard doors to try and make the internals of the boat feel more like a home rather than a mass of marine equipment dotted about.

The boat was built as a 2 cabin layout with galley down and a good sized bathroom with additional office/workshop space.

The Master cabin has a **king size** bed with inner spring mattress fitted on slats to allow air flow around the entire mattress preventing damp/mould accumulation. There are reading lights and fans fitted as well as an air conditioning outlet. The large walk in hanging locker at the fwd end of the cabin is backed up with 10 cupboards and 2 draws for storage. There is also a 240V outlet in the cabin.

The guest cabin is of similar layout with a queen size bed again with inner spring mattress and plenty of storage.

The bathroom is open with an independent shower cubicle, full size hand basin and electric toilet. A sewage treatment unit and holding tank has been fitted to enable the vessel to comply with regulations however this has not been used as of yet. An instant hot water system supplies hot water around the vessel and a 2.5kg front loader washing machine keeps the washing pile down.

The port mid hull houses mainly the electrical system with ac and dc switchboards. The ac power supply either coming from a 3000W Victron inverter/charger or a 3.5KVA 240v generator. The

primary 12 volt power supply comes from 4 x Renogy 160w solar panels, charging 460 A/h of lithium batteries.

Lithium house battery management is accessible from any android device anywhere on the vessel using the Victron Connect and also EV Power battery stats app. All battery management devices such as MPPT controllers have a Lithium profile which matches the requirements of the EV Power Lithium house bank. More batteries and/or solar panels can easily be added.

The compact 16,000BTU air conditioning unit is also housed in this area and supplies ducted air to the master cabin and saloon area via adjustable outlets. The port water and fuel tanks are situated in the hull in this area.

The starboard midships is the galley which is spacious and has quality household size equipment in the form of a Westinghouse 4 burner gas cooktop, Westinghouse gas oven as well as a microwave. There is plenty of cupboard space and bench tops while two port lights allow for plenty of light. The Spectra water maker Clarke pump and membrane is fitted under the twin stainless steel sinks. The starboard fuel and water tanks are situated in the hull.

The office/workshop has a large bench area with an additional stainless steel sink with a filtered drinking water outlet. There is plenty of storage space for spare parts and tools while also housing the fridge/freezer. An Icom HF radio and modem allow for good communications while outside of cell phone range. During construction 50Ft of copper sheet was laminated into the hull as well as a Guest Dynaplate being fitted for grounding. Under the bench top can be found access to the forward end of the generator to allow for ease of maintenance. There are numerous power outlets and bright lighting though out this space.

The main salon consists of a large U-shape couch with a mass of storage underneath it as well as the house battery bank. The table is fitted on a telescopic leg allowing the table to be lowed and a cushion inserted to make it a large day bed and a great area to sleep, close to the helm station, on those overnight passages. The coverings have all been made from quality Sunbrella fabric and are hard wearing and capable of being machine washed. The saloon floating floor is of laminated wood.

The tri-folding main doors open out into the cockpit. The cockpit windows slide vertically and do not need to be removed. Both the tri-folding doorway and cockpit windows are fitted with sliding fly screens. The seating is cushioned again with Sunbrella fabric and there is a shade that can be easily rigged and rolled up when not in use. The helm station has all the necessary instruments required including AIS and had a complete system upgrade in 2012. The chart plotter is positioned just inside the cockpit sliding window to protect it from the elements. Again the engine start panels are positioned just inside the doorway in a cupboard for the same reasons but are still easily within reach. A pilot hatch above the helm chair allows for another view point even though a clear view forward can be achieved through the saloon windows. The saloon windows and pilot hatch also have shade covers that can be fitted when not underway.

On the fore deck there are 4 large storage lockers. One used as the chain locker, one a gas locker and 2 for general purpose use. The two trampoline's have a shade cover that can easily be suspended above. The main coach house and deck also has a shade covers that are secured via bolt rope between the boom and lifelines.

Powering Mad Fish are two Yanmar 3YM30 diesel engines with two blade folding Gori props capable of 8.5Kn (fully loaded in cruising conditions). Economically motoring at 7kn on two engines or 5.5Kn on one engine. There are two main fuel tanks with a total capacity of 380L. A fuel cleaning/transfer system has been fitted for use in countries where the fuel quality can be unreliable. The vessel often carries a further 140litres of fuel in jerry cans housed in one of the general-purpose deck lockers.

The engines run 80A alternators which charge the start batteries via Balmar external regulators. The AGM start batteries also provide overflow charging to the Lithium house battery bank via Victron Orion DC to DC chargers.

The Allyacht Spars rig carries a comprehensive suite of sails. The fully battened One Sails mainsail has 3 reefing points, blind battens, Rutgerson batten boxes and comprehensive luff and leach lines and adjustments. There is a Sunbrella boom bag for the main with rugged construction and full length zip. The main is raised via an electric winch from the cockpit and tensioned at the mast. The Jib is a self tacking Doyle sail with a single sheet leading back to an electric winch in the cockpit. The powerful One Sails screecher is positioned on a 1.8m meter prodder pole as is the asymmetrical spinnaker. These sails are easily raised/lowered from the foredeck with the sheet leading aft.

Additionally Mad Fish has the luxury of a Spectra Cape Horn Extreme water maker which produces up to 50 litres an hour on 12v DC!. The two fresh water storage tanks having a total capacity of 400 litres and the washing machine requiring around 32 litres/cycle. There are also deck showers on both aft steps with the starboard one having both hot and cold water.

#### **2020 Haulout Fremantle WA**

- Replace old solar panels with four new 160w Renogy panels
- Replace start batteries
- New Standing rigging *including turnbuckles*
- Saildrive shaft seals replaced
- Various running rigging replaced including topping lift
- All oils and fluids/coolants replaced

#### **2022 Haulout Boatworks Brisbane (in preparation for a trip to Indonesia)**

- Antifouled
- Saildrive shaft seals replaced
- Saildrive top output shaft seals replaced as well as rear main seals on engines (while the bell housing was off)
- Minor reinforcing of hydraulic steering ram mounts
- Steering rams reconditioned
- Replaced Screecher furler
- Replaced several lines and sheets
- Several new hatch lenses fitted
- New sail drive shaft seals
- All oils changed
- 73m new galvanized chain
- New main halyard (dyneema core)

#### **2022 Minor Refit Townsville QLD**

- Replaced house 600AH AGM bank with Lithium 460AH

- Installation of New Victron MPPT controllers
- Installation of Victron Orion Charge controllers for start batteries and house bank
- Port engine heat exchanger repaired (cap leaked at neck so replaced neck)

#### **2024 Major Haulout Boatworks Brisbane**

- Removal of all antifoul down to original epoxy barrier coat by sand blasting professionals
- Professional Re-application of Epoxy primer and re-antifoul
- Application of PropSpeed on propellers
- Major service of water maker Clarke pump
- 70m new 10mm anchor chain
- Service Sail Drives, new seals and o-rings
- Service engines
- 4 new hatch lenses
- New lifelines
- Recondition Gori propellers
- Service of all winches including anchor winch

## **Mad Fish Inventory**

Yanmar 3YM30C diesel engines.  
Port Engine 3000 hrs  
Starboard Engine 3000 hrs  
Yanmar SD20 saildrives.  
Gori folding propellers 16.5"x13"  
Morse MT-3 engine controls  
Capilano hydraulic steering system  
2 x Capilano hydraulic cylinder, fully rebuilt 2022  
Raymarine ST6002 SmartPilot controller  
Raymarine SPX SmartPilot course computer  
Raymarine Type 2 Hydraulic pump (2 fitted, one acts as a backup)  
Raymarine C140W Multifunction Display, inc Navionics charts for Australia and Indonesia  
Raymarine 24" digital Raydome radar scanner unit  
Raymarine ST60+ Tridata ( fitted in port hull )  
Raymarine ST60+ Depth sounder ( fitted in stbd hull )  
Raymarine digital sounder module ( fitted in port hull )  
Raymarine ST60+ Wind and close hauled wind instrument  
Raymarine ST60 Compass  
Raymarine Raystar 125 GPS receiver  
Raymarine Ray49E VHF radio ( fitted at helm station )  
Icom IC- M402S VHF radio ( fitted inside vessel )  
Icom M802 HF radio  
SCS Pactor II-USB HF modem  
Amec Camino-101 Class B AIS receiver/transmitter  
Starlink roam dish and router  
BEP DC Switchboard with dc monitor  
BEP AC Switchboard with ac monitor  
Victron Energy MultiPlus 12/3000/120 Inverter/charger  
Next Generation UMC 3.5KVA diesel generator with silent casing. 575 Hrs  
Balmar ARS-5 multi stage voltage regulator (Stbd)  
Balmar MC 614 multi stage voltage regulator (Port)  
2 x 230 A/hr EV Power LFP house batteries (2022)  
2 x 135 A/hr CCA start batteries (2019)  
4 x 160W Renogy solar panels (2020)  
Allyacht Spars rig (new gooseneck fitted in 2020)  
Alloy 1.8 metre prodder pole (2020).  
Profurl C420 headsail reefing-furling system  
Selden 2.5T screecher furling system (2022)  
Forespar Lightning master dissipater  
Firdel blipper 210-7 radar reflector  
One Sails Tri Radial cut Mainsail in DC laminate, 7 full battens with 3 reefing points (New 2020 )  
Doyle Sails Tri Radial Cut Self tacking jib in Heavy Duty Cruising Dacron with black UV cover (New 2022 )  
One Sails Tri-Radial Screecher in Cruising Dacron with lightweight UV cover (New 2019 )  
Hyde Sails Tri- Radial Asymmetric Spinnaker with sock.  
Hyde Sails Stack away sail bag with lazy jacks (2018 )  
2 off Main sheet/traveller winch Lewmar 48CST winch  
1 off winch Lewmar 48CST winch  
1 off electric winch Lewmar 48CST winch  
2 off mast winches Lewmar 40CST

3 x winch handles  
Maxwell 1500 vertical windlass  
Foredeck remote windlass controls  
Helm station remote windlass controls  
Fore deck manual windlass control ( raise only )  
25 Kg Rocna anchor with 70 meters 10mm galvanised chain.  
Spare stow away anchor – Fortress FX55  
20 meter 19mm nylon rode with 3 meter 10mm chain.  
Aqua signal 40 tri color masthead light with combined anchor light  
Aqua signal Steaming light  
Aqua signal Foredeck light  
LED port/stbd and stern lights (new 2023).  
2 x underwater lights.  
Spectra Cape Horn Extreme watermaker 50 litres/hour  
Jabsco Deluxe flush electric toilet  
Raritan electro scan sewage treatment system (includes 80L holding tank)  
Jabsco sensor max VSD 5.0 fresh water pump (stbd hull)  
Jabsco sensor max VSD 17 fresh water pump (port hull)  
Jabsco Gulper shower sump pump  
Instant hot water system  
Drinking water carbon filter and outlet  
Anchor wash pump  
Jabsco reversible pump 17830 (additional fuel cleaning/ transfer pump)  
Racor 500FG fuel filter  
BEP 600 series gas detector with remote solenoid on/off control  
Carbon Monoxide detector  
2 x 7.5kg gas cylinders, (one fibreglass)  
Westinghouse 4 burner gas cooktop  
Westinghouse 600mm gas oven  
212L Novakool fridge/freezer (new 2020)  
Sanyo Microwave  
Camec 2.5kg Front loading washing machine  
Cruisair 16,000BTU Marine air conditioning unit  
Kenwood 12v stereo with 4 internal speakers  
406 Epirb, expiry 2025  
Pains Wessex distress Flare Kit  
5 x PFDs, one fitted with personal safety AIS beacon.  
Lifesling 2 overboard rescue system  
Burke bosuns chair  
3 x dry chemical fire extinguisher (new 2024)  
Drogue for 12 meter vessel  
8 x fenders with plenty of docking lines.  
Highfield 3.4m RIB with Hypalon tubes, sand anchor, chain and rope rode and fuel locker  
Yamaha Enduro 2 stroke 15hp outboard.

**Spare Parts:**

Morse cables (engine and saildrive)

Head gasket

Piston ring set

Complete raw water pump x 2

Raw water pump strainer lids x 2

Complete spare Gori propeller

Spare Capilano hydraulic steering cylinder with hydraulic hoses. (rebuilt 2022)

Next Gen Power Generator Offshore service kit, includes filters, belts, injector, solenoid, capacitor, anodes and raw water pump service parts.

Spectra watermaker offshore service kit includes full Clark pump rebuild kit

Spectra watermaker membrane

Spectra Service and preservation chemicals.

Spare Primary pump for Spectra watermaker - new

New Jabsco deluxe toilet flush pump and hose kit.

Jabsco Gulper pump service kit.

Forespar seacock service kits.

Various spare hoses and fittings.

Various filters.

Full suite of nav electronics including chart plotter in case of lightning strike (all new except chart plotter which is still in good condition)

Fusion 40 rudders x 2

Fusion 40 engine hatches x 2