

## Yanmar Power For Oceanic Offshore's New Multi-Cat

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Commercial diving company Oceanic Offshore has looked to Yanmar Power Equipment for their main propulsion and onboard generating power for their recently commissioned specialist offshore diving vessel 'Mary V'.



The job waiting for the new engines was always going to be demanding, as the vessel was designed to carry heavy equipment and operate throughout some of the most remote waters in Australia. So the Oceanic Offshore team settled on two Yanmar 6CX-GTYE series engines for their power to weight performance, refined technology, simple mechanical controls and impressive fuel economy results.

Taking over 18 months of planning and construction, the new 19.5 metre aluminium catamaran is now fully equipped as a live aboard diving base station for long term commercial diving projects.

Oceanic Offshore began in 1997 with commercial diving industry stalwart and present CEO Kevin Nuttall who was looking to establish Australia's most diversified air diving company. Based out of Burrup on the Dampier Peninsula in northern WA, the company has grown rapidly with Kevin's two sons now onboard to help manage the growing demand for air diving services throughout the oil and gas exploration industries.

Witnessing an increase in industry demand and no longer satisfied with trying to hire appropriate dive vessels at short notice, Kevin Nuttall approached well respected naval architect Jim Wilshire from AllSeas to help design a fully integrated diving support platform. Jim worked closely with Graham Dearle, Power Equipment's Fremantle based Marine Sales Manager, during both the design and construction process which was undertaken by Rod Wellington and Ocean Pearl Boat Builders in Broome.

The vessel needed specialised equipment including an onboard decompression chamber, dive air compressor, 240V gen set, sea crane and desalination plant plus deliver economical cruising for long range capabilities. Yanmar marine diesels were selected.



“It was a personal choice to install Yanmar diesel engines on Mary V,” explained Oceanic Offshore's Operations Manager, Troy Nuttall.

“I've had experience with large Yanmar engines in rig tenders prior, and enjoyed their simplicity with regards to maintenance and repairs. We have also used Yanmar in other instances such as small engines supporting water pumps etc and found them reliable.”

Based on the 'Multi-Cat' hull design more commonly associated with dredging, 'Mary V' is powered by twin Yanmar 6CXM-GTYE intercooled turbo diesel engines pumping out 360 mhp (265kW) @ 2600 rpm. The 7.4 litre straight 6 cylinder diesels are matched to Twin Disc MG5075A marine gears for dependable performance and long term durability.

The extensive list of onboard electrical equipment requires a stable source of 240V electricity. To supply 'Mary V' with enough power for the air

conditioning, dive air compressors, de-salination plant, freshwater pumps lighting, computer and galley equipment, Troy also sourced a Yanmar powered MASE IS 16 generator set to handle the 240V power load. Renowned for their low noise and low vibration levels, the Yanmar powered gen set was installed with a full canopy to deliver a noise level of only 50 dBA at 7 metres- a feature much appreciated by the 'Mary V' crew.

"The vessel has just finished a diving support program for Woodside Energy at Scott's Reef spending approximately 4 weeks on location," said Troy Nuttall.

"While Mary V came in heavier than we first expected, with a deadweight of 37 tonnes, her overall performance is 12-14 knots at cruise or 17 knots at top speed."

Oceanic Offshore undertakes a wide range of commercial diving services from hull and propeller cleaning for shipping companies, drilling and underwater welding to complete dive services for mining exploration companies and underwater salvage. Testament to the stability of Mary V, the onboard Dragger 78" Twin Lock recompression/decompression chamber is equipped with a NATO flange and capable of accommodating up to 2 divers.

Yanmar Marine diesel engines are respected around the world for their outstanding performance, compact design and unmatched dependability. Yanmar Marine offers engines, drive systems and accessories for boats from family runabouts, sailboats to mega yachts. Power Equipment is the exclusive and authorised Australian Distributor of Yanmar Marine and Industrial Diesel Engines importing product from Yanmar plants in Japan, Asia, USA and Europe.

### **"Mary V" Specifications**

<b>LOA:</b>	19.5mtrs
<b>Beam:</b>	6.5mtrs

**GWT:** 37 tonnes  
**Hull:** Aluminium Catamaran  
**Survey:** 2B  
**Propulsion:** 2 x Yanmar 6CX-GTYE/Twin Disc MG5075A gears  
**Electricity:** Mase IS16 generator set/sound shield (Yanmar powered)  
**Max Power:** 15.3kW  
**Auxiliary:** Mase IS16S  
**Accom:** 4 man (air-conditioned)  
**Fuel:** 4400ltrs  
**Range:** 380Nm (approx)  
**Hyd Oil:** 280ltrs  
**Fresh Water:** 1000ltrs  
**Hot Water:** 80ltrs  
**Sullage:** 80ltrs  
**Galley:** Microwave, B.B.Q, T.V, Dinette Fridge(300ltrs)  
**Air:** 35 cu ft/min@10bar (Diving Air)  
**Crane:** Sea Crane (1000kgs@12mtrs, 5300kgs@2.45mtrs)  
**Winch:** SD 250 with capstan (10 kN)  
**Anchor Winch:** 2 x Hydraulic with chain gypsy & capstan  
**Deck Area:** 12mtrsx6.0mtrs=72mtrs<sup>2</sup>  
**Cruise Speed:** 12kts  
**Max Speed:** 17kts  
**Desalination:** Citor (80trs/hr)

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