

**VESSEL INFORMATION & SPECIFICATIONS****WARREGO SPV 1062**

Warrego is a 23.95m utility vessel designed by GMS to support a diverse range of Offshore Oil and Gas operations in challenging sea states. She can be used as a short range vessel, but can equally support up to 18 personnel on extended offshore programmes. She is a new built vessel constructed by Australian labour in Henderson, Western Australia. She has been designed by Southerly Designs, who have a long history of providing vessels suited to the extreme conditions prevalent in Western Australian offshore waters. Their pedigree in designing such vessels is evident in a long history of orders from the WA Fisheries Department for patrol boats and from the Australian Department of Defence. Warrego has a top speed in excess of 20 knots, and is capable of travelling at speed in marginal sea states. Her deck is heavily reinforced and designed for a maximum payload of 30T. She has three steering stations, allowing for operation from either side of the bridge or, from an aft facing consol on the rear of the bridge deck. She has twin 911hp engines (Tier 2 emissions certified) mated to purpose built gearboxes fitted with troll valves, and 75hp hydraulic bow thrusters. The combination of twin keels, large rudders and large bow thrusters will make Warrego very manoeuvrable, particularly at slow speeds. Warrego currently has a hydraulic A frame, hiab and winch, but these are all removable and other hydraulic machinery can be accommodated. She has three generators, comprising two 50Kva and one 100Kva generators. These can run high demand ancillary equipment, including refrigerated containers. The design of Warrego includes allowance for over the bow passenger transit, with a heavily reinforced and fendered platform with full safety/hand rails. The back deck has bulwark doors on both sides and an open transom.

The vessel has the latest fire suppression systems, with fire protection on all the walls and roof of the engine room and tiller flat. She also has a waste water treatment plant that complies with the latest MARPOL regulations.

**THE VESSEL**

<b>Name:</b>	Warrego
<b>Call Sign:</b>	VNW6465
<b>Builder:</b>	Armada Ships, Henderson WA
<b>Designer:</b>	Southerly Designs
<b>Construction:</b>	Aluminium
<b>Place of Construction:</b>	Henderson, Western Australia
<b>Year of Build:</b>	2011
<b>Launched</b>	September 2011
<b>SPV No:</b>	SPV 1062
<b>DPI Reference:</b>	M&H 6690
<b>Survey Status:</b>	Class 1B
<b>Operational Limits:</b>	200nM Offshore
<b>Ship's Compliment:</b>	15 berthed passengers and 3 crew
<b>Stability Book Status:</b>	Stability Approved with loading conditions
<b>Stability Book Date of Approval:</b>	04/10/2011

**VESSEL DETAILS**

<b>Length Measured:</b>	23.95 metres
<b>Length Overall:</b>	24.95 metres
<b>Breadth (MLD):</b>	7.5 metres
<b>Rear Deck Area:</b>	80 metre square
<b>Draft:</b>	1.52 metres (midships lightship)
<b>Hull type:</b>	Single Chine Aluminum
<b>Gross Tonnage (Lightship)</b>	67 Tonne
<b>Main Engine:</b>	2 x Yanmar 6AY-GTE 911hp, TIER 2 Emissions Cert
<b>Gearbox:</b>	2 x Kanzaki with Troll Valves
<b>Bow thruster:</b>	Wesmar 75hp hydraulic

## WARREGO

<b>Max Speed Loaded:</b>	20 knots @ 300L/hr
<b>Cruising:</b>	15 knots @ 200L/hr
<b>Fuel Capacity:</b>	16,200L in 5 tanks
<b>Fuel Manifold / Transfer:</b>	Full transfer between all tanks
<b>Bilge System:</b>	Manual & Automatic
<b>Generators:</b>	2 x 50Kva Onan, 1 x 100 Kva Onan
<b>Batteries:</b>	2 x banks in engine room, 1 x emergency bank on bridge
<b>240vt System:</b>	Control panel earth leakage protected lower deck
<b>24vt System:</b>	Control panel on bridge
<b>Shore Power:</b>	Yes
<b>Power Take Off:</b>	2 x 32 amp outlets on deck, 1 x 32 amp outlet wheelhouse deck, Various 15 and 10 amp GPOs throughout
<b>Power Pack:</b>	Twin 3 Phase 9.2Kw Motors, 280L oil tank
<b>Engine Pumps:</b>	2 x Vane type Hydraulic for winch & bowthruster 2 x Jabsco raw water 2 x Hydraulic steering
<b>A-frame:</b>	WLL 5T hydraulic (8 Tonne test)
<b>Deck Winches:</b>	1 x 6T INI hydraulic various speed with free spool & brake (1000m x 12mm wire) 1 x 8T hydraulic fwd & rvs (90m x 12mm wire)
<b>Hiab:</b>	1 x Palfinger PK 5800 – 800kg @ 6.9m – 3100kg @1.8m
<b>Anchor Winch:</b>	1 x Hamilton Engineering custom with 16mm Gypsy & Capstan each side
<b>Fresh Water Tanks:</b>	2 x 1,500L (15mm hpde plastic)
<b>De-salinator:</b>	2 x 5TS Citor (200 L / hr) 4800 L / d)

## WARREGO

<b>Sand Filter:</b>	1 x Waterco
<b>Waste Water Treatment Plant</b>	Hamann Super mini plus (MARPOL 2011 compliant)
<b>Sullage Tanks:</b>	2 x 1,500L (15mm hpde plastic)
<b>Sludge Tank:</b>	1 x 1000L (15mm hpde plastic)
<b>Fresh Water Outlets:</b>	Taps – wheelhouse, foredeck, back deck, engine room, tiller room.
<b>Accommodation:</b>	18 (6 x 2 person, 2 x 3 person cabins)
<b>Air-conditioning:</b>	Accommodation  Saloon  Galley  Bridge  Laundry  Engine Room  Tiller Room
<b>Toilet:</b>	3 x
<b>Shower:</b>	3 x (1 on back deck, 2- aft saloon)
<b>Heads:</b>	3 x Tecma (macerated)
<b>Full Commercial Galley:</b>	Electric Stove / Oven  Microwave combo-convection / grill oven  Range hood  Double sink  Service area  Full fire protection  1 x 510L Electrolux Fridge / Freezer  1 x Upright Westinghouse Freezer  2 x Westinghouse 150L Tucker box freezers  Mess tables (2 x with seating for 18 persons)  Hot and cold freshwater dispenser (1 x Billio 60 cold + 60 hot cups / hr)

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	Cool room (Walk in 2.1m W x 2.8m L x 1.8m H 3 phase)
	Waste storage (storage for 8 wheelie bins in 2 x watertight vented foredeck rooms)
<b>Steering stations:</b>	2 x main helm & 1 x Aft
<b>HF Radio:</b>	1 x Icom ic-m801e
<b>VHF Radios:</b>	3 x Icom ic-m412
<b>Stereo:</b>	1 x Fusion ms-ip600
<b>Radar/ Plotter/ Sounder:</b>	1 x Furuno 3D Navnet 36nM range
<b>Plotter:</b>	Stand alone computer Maxsea program 1 x Raymarine A series plotter / sounder (Aft station)
<b>GPS:</b>	1 x Furuno DGPS GP-37
<b>Loud Hailer:</b>	1 x Furuno LH-3000
<b>Satellite Compass:</b>	Furuno SC-50
<b>Depth Sounder:</b>	Furuno Fcv-1150 with 1 & 3 Kw Transducers
<b>Controls:</b>	3 x Glendinning Electronic with Troll function
<b>Auto Pilot:</b>	1 Furuno Nav Pilot-700 (helm) 1 x Furuno Nav Pilot-711 (aft station)
<b>Communications Computer:</b>	Yes
<b>Satellite Phone:</b>	Yes (include Number)
<b>Next G Phone:</b>	Yes
<b>Compass:</b>	Yes
<b>Wind Instrument:</b>	1 x Furuno FI-501
<b>AIS:</b>	1 x Furuno FA-50 class b Transponder and receiver
<b>Arpa:</b>	Yes
<b>Gauges:</b>	Yanmar Engine gauges, Cummins Remote generator gauges, Fuel, water, sullage.

## SAFETY EQUIPMENT

<b>Life Raft:</b>	1 x 25 man
<b>Life Rings:</b>	2
<b>Life Jackets:</b>	25 x SOLAS, 2 x SOLAS Child
<b>Fire Extinguishers:</b>	Full complement
<b>Firefighting pump and hose:</b>	Remote Diesel 230L / min with 30m fire hose
<b>EPIRB:</b>	Yes
<b>Flares:</b>	Yes
<b>Day Shapes:</b>	Yes
<b>Anchors:</b>	x 2
<b>Chain:</b>	2 x 110m lengths x 16mm

***ALL SURVEY EQUIPMENT AS PER DPI REQUIREMENTS***