



'Cygnet V'

Shoreline's tailor-made patrol boat

The Western Australian Water Police have recently taken delivery of the 'Cygnet V', a patrol craft from local builder Shoreline Marine Fabrication.

Measuring 17.7 metres in length and with a beam of 5.2 metres, the vessel was designed by naval architects Allseas Design. In the past, the WA Water Police have inherited larger patrol craft originally built for other authorities. Because of this, each "hand-me-down" vessel did not exactly match the department's own requirements. Thus, when the time came for planning the department's own new building, they went to great lengths to specify as near-perfect a vessel as possible.

Upon delivery, the client has unanimously praised the vessel. Powered by a pair of 746kW Caterpillar C18s, 'Cygnet V' has a fuel capacity of 5,000 litres to cater to the large operational zone between Esperance and Shark Bay. Vessel strength was also important, and the structure features closer frame spacing and heavier stringers than called for by NSCV.

Equipped for many functions, the vessel is as multipurpose as possible to cater to Western Australia's diverse array of roles for its water police, including: escorting major aquatic events, transporting emergency

reinforcements to Rottnest Island, and escorting visiting United States warships.

Operated by a basic crew of two and with accommodation for two more, the vessel's survey is for 20 additional special personnel. The vessel's accommodation is functional and sufficient. In the forepeak is a four-berth bunkroom, and aft is a galley-mess room. The bathroom is located off the main deck, and between the accommodation and engine room is a tank room.

The large wheelhouse is divided into functional nooks. Forward starboard is the helming station, forward port the navigation and communications centre, and aft port the search and rescue co-ordination centre, all equipped with the latest and best electronics and integrated systems. The SAR corner has the same access to the central police computer as a police station, and even better communications.

At times a police vessel needs exceptional agility. To provide for this, Shoreline fitted 'Cygnet V' with V-section rudders more commonly seen on ultra high-speed vessels. On trials Cygnet V's immediate response to helm and the tightness of her turning circle were described as "outstanding".

'Cygnet V's design work did not start until the Water Police had spent seven months developing her specifications. Such was their determination for perfection that throughout her building they were constant visitors at Shoreline. As well as praise for the vessel, they also commend Shoreline's Brad Moseley for his patience throughout the entire process, crediting his willingness to accept the almost-infinite number of minor variations.

For further information contact:
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'Cygnet V'

SPECIFICATIONS

Type of vessel: Patrol vessel

In survey to: NSCV 2B

Home port: Fremantle

Owner: Western Australian Police,
Western Australia

Designer: Allseas Design

Builder: Shoreline Marine
Fabrication,
Western Australia

Hull construction

material: Aluminium

Length: 17.7 metres

Beam: 5.2 metres

Draught: 1.45 metres

Displacement: 33 tonnes (fully loaded)

Main engines: 2 x Caterpillar C18 Acert;
each 746kW @ 2,300rpm

Gearboxes: 2 x ZF500-1A

Propellers: 2 x Mikado propellers

Generator: Caterpillar C2.2T 22.5kW

Maximum speed: 30 knots

Cruising speed: 24 knots

Radars: Raymarine

Depth sounders: Raymarine

Autopilot: Simrad

GPS: Raymarine and Koden

Plotters: Raymarine and C-Plot Max

AIS: Raymarine

Thermal camera: Raymarine

Anchor windlass: Muir

Liferafts: 2 x Fujikura 6-pax

Fuel capacity: 6,000 litres

Freshwater capacity: 300 litres

Passengers: 20 special personnel

Crew: 4

