

# YANMAR

## POWER PROFILE

<b>Application:</b>	<b>Passenger Ferry</b>
<b>Vessel Construction:</b>	<b>Aluminium Catamaran</b>
<b>Vessel Name:</b>	<b>Louise Savage</b>
<b>Vessel Owner:</b>	<b>Harbour City Ferries</b>
<b>Length (LWL / LOA):</b>	<b>35m</b>
<b>Weight:</b>	<b>80T fully loaded</b>
<b>Engine:</b>	<b>Yanmar 6AYM-WGT</b>
<b>Engine Power Rating:</b>	<b>670kW (911mhp) @ 1938 rpm</b>
<b>Drive configuration:</b>	<b>Shaft Driven with ZF BW250A</b>
<b>Gear Ratio and Model:</b>	<b>2.029:1</b>
<b>Cruise Speed /Fuel Consumption</b>	<b>22 knots</b>
<b>Top Speed:</b>	<b>26 knots</b>
<b>Propeller Size:</b>	<b>950mm x 1025mm x 4 blade</b>
<b>Technician Name:</b>	<b>Ian Mills</b>
<b>Operational Check Date:</b>	<b>17/12/2014</b>
<b>Sold by:</b>	<b>PE NSW</b>
<b>Repower &amp; Installation Completed By:</b>	<b>Harbour City Ferries</b>

# YANMAR

## POWER PROFILE



**Comments:** The vessel was originally powered by a pair of 600kW MTU 12V2000 series engines. Original performance of the SuperCats was 21.5 to 22 knots fully laden at 80T and 26 knots light ship. On sea trials the vessel achieved 26 knots with a fully loaded displacement of 80T, four knots faster than previously obtained with the old MTU engines. The vessel can accelerate from idle to wide open throttle in 28 seconds, which is faster than the old MTUs could ever do, even when they were new. Perform a crash stop with assistance of the newly installed Twin Disc controls on the old ZF gearboxes, from full forward, 26 knots to full stop in under 20 seconds and within one boat length, once the gearbox has engaged in reverse, around 13 seconds, again better than the old MTUs. Performs turns with one engine in forward and one in reverse faster and against high wind, where the old MTUs would fail to achieve engine speeds over 1000rpm in the same conditions. The skipper on the day commented that the vessel is a whole new boat, outperforming, quieter and with less vibration than the old MTU engines. Smiles all round by maintenance staff and Harbour City Ferries management that was on board for the trial.

Disclaimer: Power Equipment provides this Performance Report for general information only. This data is accurate only as to the exact date, time and specifications set out in this Report. YANMAR makes no warranties as to the performance or fuel consumption of any boat equipped with a Yanmar engine as numerous factors affect actual performance of an engine.