

'Tenacious'

Aluminium bunker barge to fuel Brisbane's ferry fleet

By BILL BEECHAM

The 9.5-metre aluminium work barge/bunker barge 'Tenacious' is the latest addition to the fleet of vessels operated by Metrolink Queensland.

She is a multi-purpose craft designed by Sealife Designs with a waterline length of 8.4 metres, beam of 3.5 metres, and a displacement of 11.4 tonnes.

"We operate and maintain the Brisbane City ferry service on behalf of the Brisbane City Council," Metrolink maintenance planner Andrew Timmins explained.

"Its major activity will be to deliver fuel to the Brisbane ferry fleet, including bio-diesel for two new vessels being trialled."

To successfully perform these duties, the bunker barge carries 5,000 litres of fuel in three tanks located below the work deck, including 2,000 litres of bio-diesel for the

performance trials of the monohull vessels 'Bulimba' and 'Otter'.

The 11.9-metre 'Bulimba' is powered by a Perkins TW35 diesel, while the 15-metre 'Otter' is equipped with a naturally aspirated Scania D11 diesel.

'Tenacious' was designed by Sealife Designs and has a vee section hull with a raked bow, a flat workdeck with a flush access hatch, and an aft wheelhouse with a single steering station.

Propulsive power is supplied by a Perkins TW33 main engine, which turns a four-bladed propeller through a Twin Disc 2.5:1 gearbox to return a maximum speed of 10 knots and a cruising speed of eight knots.

Fuel capacity is 200 litres.

"Basically, 'Tenacious' is just a 5,000-litre fuel barge, but it is capable of doing a lot

more," said Phillip Todkill, director of Marine Applications, who built the barge.

"We did the hull and the steering gear and so forth. It's actually got single screw nozzle steering, which makes it more manoeuvrable.

"The company doesn't say we're boat builders, we're actually marine engineering and maintenance contractors.

"We've built a work boat for the tug company Adsteam, the series of Kitty Cats when they came on for the City Council, and three for a water taxi company at Cleveland."

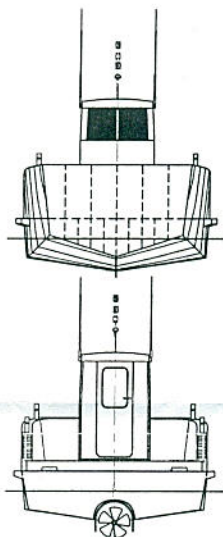
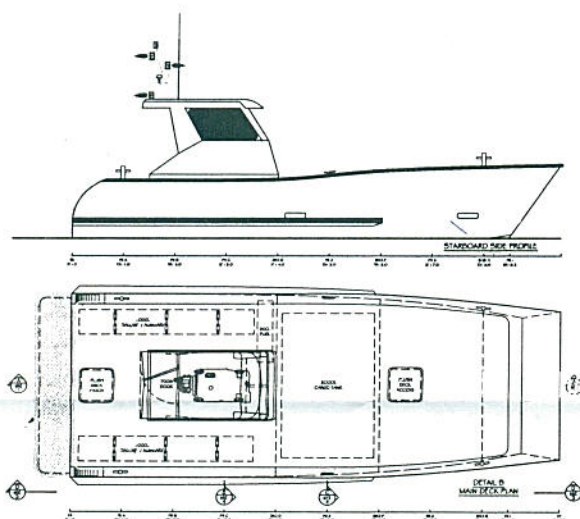
Phillip said there had been no problems with 'Tenacious'.

"With the three tanks under the deck carrying different types of fuel, the bunker barge has the capacity to transport motor vehicles or place other tanks on the work deck to carry sullage," he confirmed.

So there's quite a large scope of work this type of boat can do, and it is capable of very high speeds if it needs to.

'Tenacious' doesn't have a drop down bow ramp, but has been designed so that it can be adapted quite quickly so one can be fitted.

For further information contact:
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'Tenacious'

SPECIFICATIONS

Type of vessel:	Work barge/bunker barge
Home port:	Brisbane, Queensland
In survey to:	USL ZE
Owner/operator:	Metrolink Queensland
Designer:	Sealife Designs
Builder:	Marine Applications, Queensland
Construction material:	Aluminium
Length overall:	9.5 metres
Length waterline:	8.4 metres
Beam:	3.5 metres
Depth:	1.0 metre
Displacement:	11.4 tonnes
Main engine:	Perkins TW33
Gearbox:	Twin Disc 5051, 2.5:1
Propeller:	Four-bladed
Steering system:	Hi-Drive Hydraulic
Maximum speed:	10 knots (lightship)
Cruising speed:	8 knots (full load)
Paints/coatings:	Jotun
Fuel capacity:	200 litres
Bunker tank capacity:	5,000 litres
Crew:	2

