



ACT



THE ALICAT WORKBOATS' NEW 20M WIND FARM SERVICE VESSEL, STOLE THE SHOW AT THE SOUTHAMPTON SEA WORK BOAT SHOW, BETWEEN JUNE 15 AND 17, 2010

BY GAVIN MAIR

LAUNCHED JUST ONE WEEK PRIOR TO THE show, the stunning new vessel was ready to go to work out of Heysham, west coast UK on July 1. What makes this particularly impressive, is the fact that this is the first 20m catamaran from Alicat Workboats. Completed in just nine months from arrival of the aluminium kit set into their Great Yarmouth shipyard. Future vessels will have a nominal seven month build period.

Alicat Workboats was established in 2009 as a subsidiary company to the long established Richard's Dry Dock, in turn, one of the Gardline group of companies.

A quick trip to Western Australia in April 2009 saw Alicat depart, having ordered two kit sets from the highly reputable aluminium kit set designer and supplier, Global Marine Design.

The flat pack kit sets arrived from Australia into the Alicat yard in August 2009.

The building process was fast tracked with an experienced, but newly assembled Alicat team, working double shifts in sometimes sub-zero temperatures, to meet the delivery deadline. Extensive welding X-ray testing ensured the structural integrity of the vessel.

In the fit out department, Alicat used the experience and expertise of Goodchild Marine, who produced lightweight composite mouldings for the toilet wet room, below decks accommodation hull lining, seating modules, along with an impressive aircraft style main saloon deck windows moulding.

The spacious saloon deckhouse is comfortably outfitted, providing a very high level of passenger comfort, with both

heating and cooling systems, suspension seats and superb vision.

With the acceleration of a sports car, *Alicat 1* races from a stand still to 30kts in just 10 seconds. The very impressive cruise speed of 22kts at just 1400rpm, sees the vessel burn just 240 litres per hour in total, giving a range in excess of 600nm.

A pair of Clements Marine 'S' class propellers, incorporated with the Global Marine Design proven hull with optimised propeller tunnels and keel design, results in an extremely smooth, vibration free underwater system.

During the Southampton boat show, Global's Gavin Mair joined the Gardline team and a handful of prospective buyers, for a run out to the 'Needles' off the West End of the Isle of Wight. The vessel gave a glimpse of its capabilities as it cleared the Needles to encounter some small one metro 'wave against tide' slop, gliding effortlessly across the tops at any speed up to the 30kt maximum.



Multiple turns, stops, reversing into the sea and just laying beam to, showed the incredible sea handling and comfort of this new vessel.

Alicat Workboats have three more Global Marine Design catamaran wind farm vessels on the shop floor, all due for completion from September 2010. Amongst these are two new 17m vessels that are all part of the same design stable, with one being water jet and one propellers.

These very impressive and highly capable vessels are equally suitable for the oil and gas industry as crew and general cargo transfer vessels.

During the Seawork Boat Show, an Irish eco tourism operator identified the Alicat 20m, as a highly suitable vessel for his 100 passenger Eco tour operations, due to its spacious and well presented interior, excellent speed and sea keeping, along with it's inherent high level of stability.

EDITORS NOTE

Following the Seawork Boat Show in Southampton, Global's Gavin Mair was one of four crew on the 10 hour return delivery voyage to Great Yarmouth. The English channel section saw the vessel maintain 30kts in smooth seas through to Ramsgate for refueling where she took on 5,000 litres. As the Alicat 1 *Gardian* moved out of the channel into the North Sea, the seas slowly rose to a sea state five ... Essentially 1.5m seas and 18+kts of breeze from the north. The vessel was easily able to maintain full speed into the head seas for several hours. It was only on the last two hours of the voyage that the

throttles were dropped back from 1840rpm at 30kts 92% engine load, to 1650rpm where the vessel sat comfortably at 26 to 27kts with just 72% engine load. The two experienced captains on board, responsible for the delivery, were simply stunned by the smooth ride and effortless sea handling when compared to other wind farm catamaran vessels that they have operated.

The return voyage was also a good test for the engineering systems and the 'B' rated C32 Caterpillar engines that allow the operator to use full throttle for 10 out of 12 hours. The engineering systems proved faultless and with 25 engine hours accumulated after docking in Great Yarmouth, the vessel was given the all clear for commercial operations.

Of course, there were some minor alterations put on the 'to do' list by Gavin Mair, Captains Neil Anderson, Neill Austin and honorary 'captain for the day' Sue Crothers.

"It was an absolute pleasure to have a new vessel from a new builder and to have such a menial list of items needing attention. I can honestly say that this hull can not be refined any further and the Alicat Workboat owners are delighted with their choice of design and kit set supplier. We at GMD see a solid future in working with this very competent boat builder", said Global's Gavin Mair as he stepped off the dock.

The vessel name is a play on words of the parent company Gardline Environmental.

For further information:

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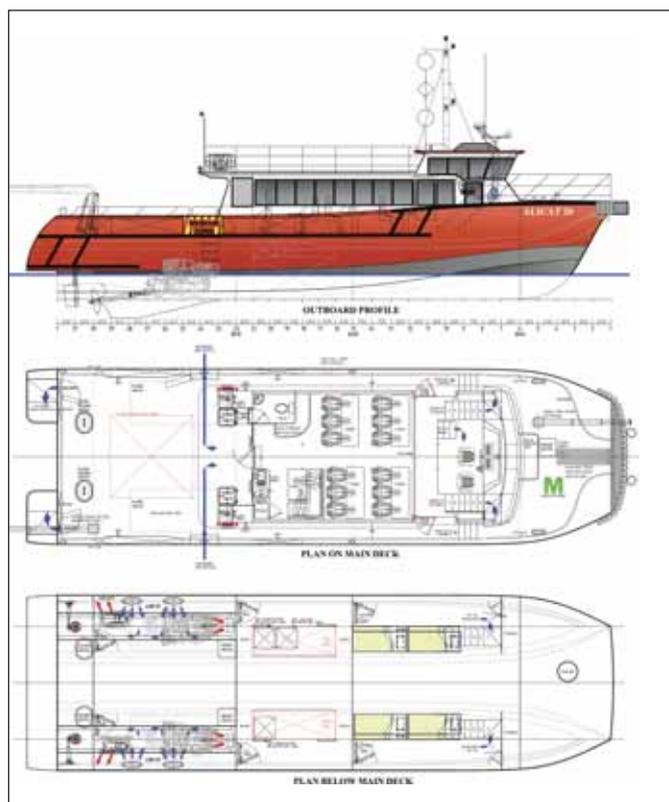
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– Specs overleaf –

specifications ...

Type of vessel	20m Windfarm catamaran
In survey to	MCA Cat 2
Home port	Great Yarmouth
Owner	Gardline
Owner contact phone	01493 845 600
Operator	Gardline Environmental
Designer	Global Marine Design
CAD software	Maxsurf /Autodesk
Builder	Alicat Workboats Ltd
Hull construction material	Aluminium
Superstructure construction material	Aluminium
Deck construction material	Aluminium
Length overall	21.30m
Length waterline	18.55m
Length bp.	18.55m
Beam	6.40m
Draught: (moulded / maximum)	1.02 / 1.6. m
Depth	2.56m
Displacement	53T (full load)
Tonnage/s	GRT NRT DWT
Main engine/s	2 x Caterpillar C32. 1318bhp @1800rpm
Gearbox/s	Twindisc MGX6620A 2.28 :1
Propulsion	Clements Marine Fixed Pitch Propellers
Auxiliary engine/	
Generator/s	Cummins Onan 13.5 kVa plus Suntom 5 kVa
Shaft auxiliary generator/s	
Side thruster/s	nil
Steering system	Wills Ridley
Maximum speed	31 (lightship)
Cruising speed	22kts @1400rpm (full load)
Bollard pull	15 + Tonnes
Range	600nm with 10% Reserve
Hydraulic equipment	Crane, Anchor Winch
Electronics supplied by	Charity and Taylor
Radar/s	Raymarine 1 x HD, 1x SHD Open array 48" 4kW
Depth sounder/s	Humminbird
Radio/s	2xVHF Raymarine G Series
Sonar	Humminbird 1197c Side Scan
Satcom	Skipper 150
Autopilot	Raymarine ST 8002 Pod SPX SOL
Compass/es	Ritchie 100mm Plus Raymarine Fluxgate
Weatherfax	none
GMDSS	none
GPS	Integrated G Series, 3 Processors, 2 Keypads
Plotters	Raymarine
A.I.S.	Furuno FA 150
Audio visual system	7 cameras integrated to Raymarine system, 320Gb recording on all 7 cameras

**Other equipment installed**

Webasto cabin heater; Coolmaxx air conditioning

Alarm system/s

International Paints/Intersleek

Paints/coatings

International Paints/Intersleek

Windows

Direct Glazed

Seating

KAB 300

Flooring/deck surface finishes

Altro Mondo Pave Rubber

Interior fitout/furnishings

Custom by Goodchild Marine

Armament/Weapons

This vessel IS a weapon

Safety equipment

Liferaft/s 2 * Zodiac 16 man Solas

Liferaft/s

2 * Zodiac 16 man Solas

Lifeboat/s

nil

Rescue boat/s

nil

Hold capacity

nil

Deck cargo capacity

Nominal 7 Tonnes

Water ballast

Nil

Fuel capacity

8000L

Fuel consumption

240 L/hr total @1400rpm 22kts

Freshwater capacity

1000L

Crew

2

Passengers

12

Vehicles

nil

Operational area

Heysham, UK West Coast

Date of delivery

June 2010

Remarks

The design was plan approved to DNV for hull and Superstructure only. The builder constructed to MCA, with future vessels planned to be full DNV

Other vessels on order

1 x 20m, 2 x 17m

Type

Global Marine Design Catamarans

Number**Other electronics****Winches**

Capstan/Windlass Hercules Hydraulics

Cranes

Bonfiglioli 7200

Deck equipment