



Delivers the difference!

**Wave Access Project**

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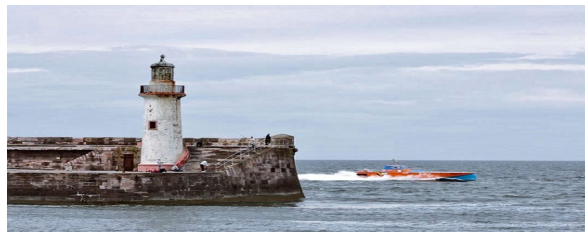
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**News Letter – November 2016**

*Brief History:*

Coastal Charters Ltd is a commercial maritime business based in West Cumbria that has hosted a research & development project called the Wave Access solution. This was in response to the OWA round 3 access competition. The project saw the target focused design of a rapid crew transfer vessel using a range of different proven technologies putting them together on *one* vessel; a proof-of-concept vessel has been manufactured in-house. The radical new design will optimise the transportation of up to 12 passengers and 3 crew members. When compared to the vessels currently used in the offshore wind service it will significantly reduce fuel consumption whilst travelling at around twice the speed, maintain safety and improve comfort. It will deliver significant benefits to operators in terms of cost, time and safety as well as being beneficial to the environment.

**The proof of concept vessel specification:**

LOA	24m
Beam	4.3m
Displacement (light)	20.5 tonnes (facilitates use as daughter craft)
Displacement (heavy)	28.0 tonnes
Design speed (max)	50 kts
Current max speed	40kts (facilitates transfer to distant offshore assets)
Engines 2 N°	Doosan 1200 HP
Fuel	2500 L total (6 tanks)
Enhanced stability	Active Seakeeper gyro stabiliser (facilitates comfortable loitering)
Fuel Consumption	at 28kts less than 100 litres/hour (further corroboration to follow)

## **Fred. Olsen Windcarrier Vessel Visit and Demo**

David Matthews General Manager of Windcarrier UK along with team members of the Barrow based Windcarrier visited the Wave Access team in Whitehaven. The vessel history was presented prior to a visit and near shore test sail. Topics discussed included the flexibility in design and the sea keeping capability offshore. No access test was possible but David expressed an interest in witnessing this on a nearby windfarm ASAP. The Barrow Windcarrier site manager dived into operational requirements and opportunities. The Windcarrier team invited Wave Access to Barrow to spend time with the Windcarrier Bayard's to see operational requirements first hand.

**David Matthews “I’m impressed with the vessel. It’s possible that it is ahead of its time but with the shift in project size and distance from shore, this could be a solution for the near future”**

## **RNLI Sea Trials and Demo**

The vessel continues to demonstrate its’ operational capabilities. In September Wave Access had the pleasure of conducting more sea trials on Tenacity in the presence of the senior Coxswain Workington RNLI, John Stobbart. He gave his assessment of Tenacity’s capabilities and performance which can be viewed on the website [www.waveaccess.co.uk](http://www.waveaccess.co.uk)

**John Stobbart ‘ it is in my opinion a good sea boat with excellent performance in conditions which were less than ideal.’ (3.25m wave height)**

## **Corporate Company Dive Trials and Demo**

October saw the second successful demonstration of the vessel to the dive team who are considering replacing their older vessel for something that will give significant improvements. Tenacity created a more than favourable impression. Particularly impressive to them was its’ stability and levels of comfort in the passenger space. The speed and time taken to get to the dive site was equally as impressive to the dive team when compared to alternative vessels.

## **Event: Southampton Next Generation Marine Power and Propulsion Conference – October 16**

The Wave Access team was invited by John Haynes from Shock Mitigation (the organiser of the conference) to present on ‘Innovative High Speed Craft for Emerging Maritime Roles’.

Before a cross section of maritime representatives Wave Access was able to share its’ own experiences in bringing a radical solution to the offshore wind industry and the difficulties associated with delivering change to a mature market.

The second half of the presentation was an open floor Q&A opportunity to explore in more detail the solutions that Wave Access can bring to the offshore industry. These included, build to print, adaptations to the current design, reversing onto WTG foundations, reducing weight, maximising speed and the benefits of the active gyro stabiliser system.

The interaction and feed-back from the delegates was highly encouraging and positive suggesting that the industry is receptive to the commercial benefits that Wave Access will deliver. Comments included:

1. UK Border Force ‘this could be a game changer’ .... ‘Stephen did a brilliant job coming across as someone very capable, honest and transparent trying to give context to an incredible achievement’
2. KPM Marine ‘performance figures and seakeeping were very impressive and I think that there is a place for this vessel especially in the longer transits’
3. Fairchild Marine ‘the stern-to transfer system is so logical it begs the question as to why it was ever done any other way’

### **Wave Access & Vessel Brokers**

To further promote the Wave Access vessel contact has been made with a number of well-connected vessel brokers. The aim is to introduce the vessel to a wider audience and seek out opportunities to test the vessel as well as manufacture them either in the UK or under licence in other facilities.

### **Next Steps**

Tenacity is imminently leaving its home port of Whitehaven for the Port of Barrow-in-Furness where the offshore wind operators and vessel providers will have the opportunity to appreciate the benefits of the Wave Access solution first hand.

The Wave Access team would be pleased to offer either short term charters to test the vessels’ capabilities or arrange demonstrations at sites.

Email: [info@waveaccess.co.uk](mailto:info@waveaccess.co.uk) Tel: 07801 623 021.



[www.waveaccess.co.uk](http://www.waveaccess.co.uk)

*Coastal Charters: Tenacity, proof-of-concept vessel offers design and operational solutions to many of the logistical issues **faced** by the offshore industries today.*