

Case Study 124: **Bue Tekes Crew Boat**

SPECIFICATIONS

Waterjets:	DJ140Z (Twin)
Engines:	Caterpillar C12 480hp @ 2300 rpm
Gearboxes:	N/A direct drive
Vessel:	13.6m L.O.A 13.0m LWL 14 tonne
Performance:	27 knots



A 13 metre low draft crew boat from Australia's New Wave Catamarans

This aluminium 13.6m Catamaran crew boat, propelled by twin **DOEN DJ140** waterjets, operates in the Caspian Sea in Kazakhstan. Built by New Wave Cat in Queensland, the vessel was designed specifically to provide crew and equipment transportation for the oil and gas industry into remote regions where low draft was required. This vessel has a draft of only 500mm.

Power is provided by twin CAT C12, 480hp diesel engines, which are directly coupled to the DOEN DJ140, 14.0-inch (356mm) diameter high volume axial flow impellers. The vessel has a top speed of 27knots with 25 passengers and a cruise speed of 25knots.

The DOEN balanced steering nozzle gives fast, precise response. These are controlled using a joystick steering lever operating the power assisted hydraulic steering system. Inboard cylinders are mechanically connected to the waterjets inboard steering tiller. This provides the vessel with exceptionally easy control at all speeds and especially when maneuvering alongside other vessels and oil rigs. A simple hydraulic link is used to connect the waterjets thereby providing synchronized steering at all times.

The DJ140 waterjets are fitted with DOEN's Jogstick Reverse System (JRS); an electro hydraulic control system that provides non-follow up jog lever control of the waterjets reverse buckets. An analogue indicator is used to show the reverse bucket position. This robust, simple and cost effective system remains very popular with operators in remote locations and heavy duty applications.