

Case Study 129: **Sea Truck**

SPECIFICATIONS

Waterjets:	DJ105 (Twin)
Engines:	Cummins 6BTA 5.9M 315hp @ 2800 rpm
Gearboxes:	N/A direct couple
Vessel:	12.0m L.O.A 10.3m L.W.L 7 tonne
Performance:	30 knots



More than 150 Sea Truck vessels work the river delta in Indonesia

Twin **DOEN DJ105** waterjets propel these fiberglass and aluminium Sea Truck vessels. With several operators involved in this business, Doen has provided more than 150 ship sets of equipment for this application into this region. These vessels are designed specifically to provide reliable crew and equipment transportation for the oil and gas industry in the shallow river delta regions where low draft is paramount because of the shallow waters and submerged debris that has to be negotiated.

Power is provided by twin Cummins 6BTA 315hp diesel engines, which are directly coupled to the DOEN waterjets. The DOEN DJ105 10.5-inch (267mm) diameter high volume axial flow impeller provides excellent cruise capability and fuel economy with un-compromised top speed under varying load conditions.

The DOEN balanced steering nozzle gives fast, precise response with minimal input force. This is simply controlled using a conventional manual hydraulic steering system with inboard cylinder, which is mechanically connected to the waterjets inboard steering tiller. This provides the vessel with exceptional easy control at both high and low speeds. A simple mechanical tie bar is used to connect the waterjets providing synchronized steering at all times.

The DJ105 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.