

Hamilton Jet Model 571
Application Review

Sanergy Oil Rig Crew Boat Uses Twin HM571 Jets



A 28 metre Hamilton Jet powered crew boat for servicing oil rigs in Asia has been delivered to its owners, Sanergy Marine of Singapore. Twin Hamilton model HM571 waterjets driven by Caterpillar diesel engines through ZF gearboxes push the vessel, which has a displacement of 71 tonnes, to a top speed of 25 knots.

The jets were supplied as an integrated package including intake and transition duct, hydraulic power supply and control system. A dual station Hamilton Jet HYRC Control System provides control for steering and ahead/astern functions. At each station, single throttle/astern levers for each jet and a manual helm and wheel are used for full 360° thrust vectoring control.

This provides total vessel control at all boat speeds and outstanding manoeuvrability, particularly important when operating around oil rigs for crew transfers etc.

The characteristic of waterjets to absorb the full engine power regardless of boat speed makes them an ideal propulsion choice for this type of application, where payloads can vary on different trips. When fully laden with exchange crews and supplies, the vessel will run at its maximum laden design speed with the jets absorbing full engine power. In the event of a lighter load, at full throttle the total engine power will still be absorbed, resulting in higher boat speeds.

▶ Brief Specifications

NAME: M.V. Sanergy Landok	CLASSIFICATION: Bureau Veritas [Jets]
SERVICE: Oil Rig Crew/Utility Vessel	WATERJET CONTROLS: Hamilton Jet Type HYRC
LENGTH: 28.0 metres [LOA]	ENGINES: Twin Caterpillar diesels Model 3412TA, each 746kW (1000bhp) @ 2300rpm
BEAM: 5.78 metres [BPX]	GEARBOXES: Twin ZF Model BW190
CONSTRUCTION: Aluminium	DRIVELINES: Centa CF
DISPLACEMENT: 71 tonnes	DESIGNER/BUILDER: Greenbay Marine (Pte) Ltd Jurong, Singapore
SPEED: 25 knots	OPERATOR: Sanergy Marine, Singapore
WATERJETS: Twin Hamilton Jet Model HM571	Hamilton Jet DISTRIBUTOR: Wealco Equipment, Singapore

Alternatively, in such a case the engines could be throttled back to maintain the original speed, resulting in fuel savings.

Applications of Hamilton waterjets in other crew boats around the world have shown they provide a high level of reliability with little or no unscheduled downtime – a vital requirement for vessels working in a dynamic environment such as the offshore oil industry.