



## M/V Pacific Warlock

- ▶ **Bollard Pull** 136-144 tonnes
- ▶ **Brake Horsepower** 10,657 BHP
- ▶ **Clear Deck Space** 471 m<sup>2</sup>
- ▶ **Winch Line Pull** 300 tonnes

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### General Information

Built:	Brevik Construction A/S Norway, March 2003
Flag:	Singapore
Call Sign:	9VKQ4
IMO No.:	9250048
Classification:	DNV-GL +1A1 Fire fighter(I) Tug DK(+) DPS(2) E0 HL(2.5) SF

### Dimensions

Length, overall:	68.95 metres
Length, BP:	60.45 metres
Breadth, moulded:	15.5 metres
Depth, main deck:	7.0 metres
Design draft:	5.20 metres
Maximum draft midship:	5.99 metres
GT:	2327
NT:	751

### Capacities

Deadweight (maximum):	2351 tonnes
Clear Deck Area:	36.8 m x 12.8 m = 471 m <sup>2</sup>
Deck Strength:	General deck - 5 tonnes/m <sup>2</sup> Aft A/H deck - 10 tonnes/m <sup>2</sup>
Deck Cargo:	800 tonnes
Fuel:	802 m <sup>3</sup> @ 100% 722 m <sup>3</sup> @ 90% (includes Settling & Service tanks)
Potable Water:	450 m <sup>3</sup> @ 100% 405 m <sup>3</sup> @ 90%
Ballast Water:	720 m <sup>3</sup> dedicated tanks 1061 m <sup>3</sup> including RCL & Brine 1 P & S
Brine / DMA / Glycol / Liquid Mud:	312 m <sup>3</sup> (s.g. 2.5) (3 tanks - separate from mud tanks) (in addition, 146 m <sup>3</sup> in dual use Liquid Mud tanks)
Liquid Mud:	438 m <sup>3</sup> @ 100% 394 m <sup>3</sup> @ 90% (including Brine tanks #1 P & S)
Dry Bulk:	215 m <sup>3</sup> (4 tanks)
Ship's Stores:	Cooler: 8.6 m <sup>3</sup> Freezer: 8.6 m <sup>3</sup> Dry Stores: 10.5 m <sup>3</sup> approximately

### Machinery

Main Engines:	2 x 3975 kW = 7950 kW (10,657 BHP), Bergen BRM-9
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Propulsion:	2 x CPP propellers in Kort nozzles 2 x Ulstein high lift independent rudders 2 x Electro-hydraulic steering gear
Bow Thrusters:	2 x 590 kW (2 x 791 BHP), 9.25 tonnes thrust each
Stern Thrusters:	1 x 590 kW (1 x 791 BHP), 9.25 tonnes thrust
Shaft Generators:	2 x shaft generators 1200 kW (1600 kVA), 450 V, 60 Hz
Auxiliary Generators:	2 x diesel/gen output 320 kW (400 kVA), 450 V, 60 Hz
Emergency Generators:	1 x diesel/gen output 65 kW (80 kVA), 450 V, 60 Hz

### Towing and Anchor Handling

Bollard Pull:	141 tonnes at 100% MCR 144.2 tonnes, maximum
Main Winch:	1 x Brattvaag SL300W/2BSL300W low pressure
Load Capacity:	Towing A/H drum 1st layer 300 tonnes pull at 0 - 7.0 m/min. (based on 1st step) 172 tonnes pull at 0 - 12.0 m/min. 122 tonnes pull at 0 - 17.0 m/min. Lowering at 0 - 38.0 m/min.
Brake Capacity:	450 tonnes on towing drum 1st layer 450 tonnes on A/H drum 1st layer
Tow Drum Wire Capacity:	1500 m x 76 mm diameter
Work Drum Capacity:	2 x 1200 m x 76 mm diameter
Chain Gypsy Cable Lifter:	2 x 76 mm & 2 x 84 mm chain diameter 76 mm fitted port & starboard work drums
Rig Chain Locker:	194.7 m <sup>3</sup> chain capacity not allowing for broken storage
Stern Roller:	SWL 450 tonnes Length 5 m x 2.5 m diameter
Tow Pins / Guide Pins:	2 pairs x retractable Karmoy guide pins with horizontal locking tops
Wire Chain Stopper:	2 x retractable Karm Fork, SWL 450 tonnes
Spare Reel Capacity:	2 x hydraulic Brattvaag 1500 m x 76 mm capacity
Wire Storage Reel:	1 x hydraulic Brattvaag 1500 m x 76 mm capacity

### Deck Machinery

Tuggers:	2 x 10 tonnes Brattvaag
Capstans:	2 x 10 tonnes Brattvaag
Windlass:	9.5 tonne pull Brattvaag, 2000 kg high holding anchors 440 m x 38 mm chain each side, plus 1 spare anchor
Bow Mooring:	2 x mooring drums capacity 110 m @ 72 mm currently fitted
Smit Towing Bracket:	1 x 350 tonnes SWL located on fo'csle
Crane Capacity:	TTS Crane, Hydralift, 5 tonnes at 13 m radius

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### Electronics

Main Radar:	1 x Furuno FAR-2835S ARPA colour S-band (10 cm), 28 ins display, complete with remote display at aft console
Auxiliary Radar:	1 x Furuno FR-2115 colour X-band (3 cm), 21 ins display
Auto Pilot:	1 x Tokimec PR-6000
Gyro Compass:	1 x Tokimec 6000 with repeaters, 2 x Tokyo Keiki TG-8000
Magnetic Compass:	1 x Tokimec Spare (in Master's cabin) Skandi 26
Echo Sounder:	SAM Electronics Echograph 9205
DGPS :	2 x Veripos LD5
Anemometer :	1 x Aandrea 2740+3590 / 1 x R.M Young 09101
Speed Log:	Anthea
Direction Finder :	Taiyo TD-L1550A
Communications:	G.M.D.S.S. (Global Maritime Distress and Safety System) Area A3 1 x SSB sailor 6301MF/HF 2 x VHF 2 x Inmarsat C H2095C/DT4646E (Stn address not to be included) 3 x VHF (2 x Sailor RT4722 VHF DSC Duplex, 1 x RT 2048 VHF Simplex) 2 x Sart Jotron Tron SART20 1 x EPIRB Tron 60s 1 x Navtex Pronav NCR 330
Watch System:	Martek Navigard
Weather Fax:	JRC JAX-9A
Satellite Communication:	FBB: Sailor 500
VRU:	SMC IMU-108 / CMS RP-25
BNWAS:	Martek Marine

### Discharge Pumps

Fuel Oil:	1 x 150 m <sup>3</sup> /hr - 9.0 bar
Dirty Oil:	1 x 10 m <sup>3</sup> /hr - 2.0 bar
Potable Water:	1 x 150 m <sup>3</sup> /hr - 9.0 bar
Drill Water:	1 x 150 m <sup>3</sup> /hr - 9.0 bar
Liquid Mud:	1 x 75 m <sup>3</sup> /hr - 18.0 bar (2 speed)
Brine / Mud:	1 x 75 m <sup>3</sup> /hr - 18.0 bar (2 speed)
Dry Bulk:	80 m <sup>3</sup> /hr - 5.6 bar, 80 psi, 2 compressors
Cargo Flow Meters :	Fuel Oil and Fresh Water
Hose Connections :	Fuel - 4" Avery Hardol Potable Water - 4" Weco Female Drill Water - 4" Weco Female Mud - 4" Avery Hardol Bulk - 5" Weco Adapters - Various

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### Performance

Speed / Fuel Consumption:	Max. speed 15.5 kts @ 5m draft, approximate consumption 36 m <sup>3</sup> /day Economical speed 10-12 kts, consumption 20 to 24 m <sup>3</sup> /day Idle standby at sea: one engine, 8 m <sup>3</sup> /day Idle standby at sea: two engine, 13 m <sup>3</sup> /day Idle in port: approximate consumption 0.8 m <sup>3</sup> /day Towing @ 85% pitch - 36 to 38 m <sup>3</sup> /day Towing @ 65% pitch - 29 to 31 m <sup>3</sup> /day DP Ops - 14 m <sup>3</sup> /day
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### Dynamic Positioning

Type:	GE Duplex Dynamic Positioning System, C-Series
Reference Systems:	2 x Veripos LD5 DGPS / Fanbeam 5 / CyScan 4.83
Control Modes:	Joystick Manual Heading / Joystick Auto Heading / Dynamic Positioning / Model Control (Dead Reckoning) / Simulation (for training purposes) / DP Minimum Power / Auto Track / Auto Pilot Mode / Mixed Axis Mode / Ship Follow (CyScan) / ROV Follow (Requires Acoustic)
Joystick:	Poscon - Ulstein, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

### External Fire Fighting

Capacity:	2 x 1500 m <sup>3</sup> /hr = 3000 m <sup>3</sup> /hr
Monitors:	2 x 1200 m <sup>3</sup> /hr monitors (Main deck drench monitors and accommodation module drench system)
Throw Length:	120 m
Throw Height:	70 m
Foam Tank :	12 m <sup>3</sup>

### Standby Rescue Equipment

1. MOB boat with self-righting inboard diesel engine with water jet propulsion.
2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.

### Anti-Pollution

Dispersant Tank:	12.3 m <sup>3</sup>
Spray Booms:	2 x 6 m

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### Accommodation

Berths:	10 x 1 berths
	3 x 2 berths
	3 x 4 berths
	28 berths total
	1 x 2 berths Hospital
	1 x TV room
	1 x ship's office
	1 x lounge
	1 x messroom
	1 x galley
	All living space fully airconditioned, design 45 deg C outside, 23 deg C inside
	All living space fully heated, design -5C outside, 22C inside

### Environmental Features

1. Mud Tank has recirculating system
2. Fixed Butterworth type mud tank cleaning system with hot water wash, fitted to all mud tanks and with slop tank reception. Cargo load/discharge station with save all to inboard tank
3. Low residue design bulk tanks
4. 1 x 15 ppm oily water separator
5. 1 x sewage plant, extended aeration type
6. Remote digital fuel economy computer readout in wheel house, of main engine fuel consumption / vessel speed

### Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 74, with amendments in force and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel".
2. Fitted with Poscon electronic control system joystick, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass.
3. All cargo systems are controlled by a Tanktender system with discharge printer for FO and FW/DW.
4. Fitted with 5 remote cameras in winch-house for anchor-handling/towing operations with 2 TV monitors in wheelhouse.
5. Fitted with 2 Halogen searchlights, each 2000W, wheelhouse top and electrically operated from inside wheelhouse, 4 x 1000W flood-lights, for cargo deck.
6. Deck Power supplies
  - 1 x 1000A x 440V x 3ph
  - 1 x 63A x 440V x 3ph
  - 1 x 32A x 220V x 1ph
  - 4 x 32A x 440V x 3ph



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7. Wood sheathed main deck except for aft area, which is steel plated for anchor-handling.
8. Welding and cutting equipment and lathe in workshop.
9. Fresh water ultra violet sterilizer.
10. Ulstein passive roll damping system.
11. Fire detection system fitted to the accommodation, engine room emergency generator space and all other spaces.
12. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room / emergency generator room.
13. Statutory liferafts, life-jackets, pyrotechnics.