



## M/V Pacific Petrel

- ▶ **Bollard Pull** 53-66 tonnes
- ▶ **Brake Horsepower** 4826-5147 BHP
- ▶ **Clear Deck Space** 275-330 m<sup>2</sup>
- ▶ **Winch Line Pull** 150 tonnes

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### General Information

Built:	Qingdao Qianjin Shipyard, China, June 2011
Flag:	Singapore
Call Sign:	9V7611
IMO No.:	9503407
Classification:	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing) DPS(1)

### Dimensions

Length, overall:	57.50 metres
Length, BP:	50.50 metres
Breadth, moulded:	14.00 metres
Depth, main deck:	6.00 metres
Design draft:	4.55 metres
Maximum draft midship:	5.10 metres
GT:	1329
NT:	484
Length between P.P.:	50.50 metres
Breadth:	14.0 metres
Draft minimum:	3.10 metres
Draft maximum:	5.10 metres

### Capacities

Deadweight (maximum):	1545.82 tonnes
Clear Deck Area:	30m x 11m = 330 m <sup>2</sup>
Deck Strength:	General deck - 5 t/m <sup>2</sup> Aft AH deck - 19 mm steel plate
Deck Cargo:	500 tonnes
Fuel:	566.286 m <sup>3</sup> (dedicated)
Potable Water:	400.746 m <sup>3</sup>
Ballast Water:	371.866 m <sup>3</sup>
Brine / DMA / Glycol / Liquid Mud:	147.264 m <sup>3</sup> or 5200 ft <sup>3</sup> (2 tanks dual-use Brine/Mud/DMA)
Liquid Mud:	184.432 m <sup>3</sup> or 6513 ft <sup>3</sup> (4 dedicated tanks) 331.696 m <sup>3</sup> or 11713 ft <sup>3</sup> (including 2 dual-use tanks)
Dry Bulk:	135 m <sup>3</sup> or 4750 ft <sup>3</sup> in 2 x 2 tank independent systems. Cement density max 2.35 t/m <sup>3</sup> and fineness 4,000 Blaine.

### Machinery

Main Engines:	2 x 1,920 kW = 3,840 kW (5,147 BHP) Yanmar 6EY26
Propulsion:	2 x CPP propellers in Kort nozzles 2 x Electric-hydraulic steering gear
Bow Thrusters:	1 x 500 kW (670 BHP) producing 7.9 tonnes (77.5 kN) thrust
Stern Thrusters:	1 x 500 kW (670 BHP) producing 7.9 tonnes (77.5 kN) thrust

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<b>Shaft Generators:</b>	2 x 1250 kVA, 440 V, 60 Hz
<b>Auxiliary Generators:</b>	1 x 320 kW Caterpillar 3406 C with spark arrestor
<b>Emergency Generators:</b>	1 x 315 kW Caterpillar 3406 C with spark arrestor

### Towing and Anchor Handling

<b>Bollard Pull:</b>	63.78 MT, continuous 65.60 MT, maximum
<b>Main Winch:</b>	1 x MacGregor-Plimsoll double drum, low pressure winch
<b>Load Capacity:</b>	Towing / A/H drums 1st layer 150 tonnes at 7.2 m/min 100 tonnes at 10.8 m/min 50 tonnes at 22 m/min
<b>Brake Capacity:</b>	250 tonnes (static) on towing drum 1st layer 250 tonnes (static) on AH drum 1st layer
<b>Tow Drum Dimension:</b>	820 mm, flange dia, 2800 mm & drum length 1500 mm
<b>Tow Drum Wire Capacity:</b>	1100 m x 64 mm (2.5 inch) diameter
<b>AH Drum Dimension:</b>	820 mm, flange dia, 2800 mm & drum length 1500 mm
<b>Work Drum Capacity:</b>	1200 m x 64 mm (2.5 inch) diameter
<b>Secondary Winch Dimension:</b>	100 m x 64 mm with spelter socket
<b>Chain Gypsy Cable Lifter:</b>	1 x 76 mm (3 inch) diameter chain
<b>Stern Roller:</b>	1 x 2 m diameter x 4 m width, SWL 250 tonnes
<b>Tow Pins / Guide Pins:</b>	1 x set hydraulic Karmoy, remotely controlled
<b>Wire Chain Stopper:</b>	1 x retractable Karmoy, SWL 250 tonnes, controlled from wheelhouse (32 - 76 mm chain)
<b>Spare Reel Capacity:</b>	1200 m x 64 mm (2.5 inch) diameter

### Deck Machinery

<b>Tuggers:</b>	2 x 10 tonnes MacGregor-Plimsoll
<b>Capstans:</b>	8 x tonnes x 15 m/min MacGregor-Plimsoll ; Drum - 10 tonnes x 10 m/min
<b>Windlass:</b>	2 x 1440 Kg. high holding Anchor 2 x 328.8M x 30mm dia. U3 Chain
<b>Bow Mooring:</b>	1 x mooring drum capacity 220 m x 38 mm synthetic rope
<b>Smit Towing Bracket:</b>	Smit-type, 1 x 120 tonnes SWL
<b>Crane Capacity:</b>	SWL 1500 kg @ 8 m radius, make: Helia, model: HM25-8F

### Electronics

<b>Main Radar:</b>	1 x Furuno X-band, 21 inch colour LCD, ARPA
<b>Auxiliary Radar:</b>	1 x Furuno S-band, 21 inch colour LCD, ARPA
<b>Auto Pilot:</b>	1 x Tokyo Keiki PR-6000-e
<b>Gyro Compass:</b>	1 x Tokimec TG-8000 with 4 repeaters
<b>Magnetic Compass:</b>	1 x Saura Keiki SR165M
<b>Echo Sounder:</b>	1 x Furuno FE-700
<b>DGPS :</b>	1 x Veripos LD5 1U-H27
<b>Anemometer :</b>	1 x Young Wind Tracker
<b>Speed Log:</b>	1 x Furuno Doppler DS-80

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Communications:	G.M.D.S.S. (Global Maritime Distress & Safety System) Area A3 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 1 x McMurdo E5 EPIRB 1 x Navtex Nx700 2 x Mcmurdo Rescue SART
Navtex Receiver:	1 x Furuno NX-700
Weather Fax:	Furuno FAX 408
Satellite Communication:	FBB: Sailor 500
AIS:	Furuno FA 150
VHF:	2 x Furuno FM-8800 D/S
BNWAS:	1 x Martek Marine

### Discharge Pumps

Fuel Oil:	1 x 100 m <sup>3</sup> /hr - 7.0 bar
Dirty Oil:	1 x 10 m <sup>3</sup> /hr - 2.0 bar
Potable Water:	1 x 150 m <sup>3</sup> /hr - 7.0 bar
Drill Water:	1 x 150 m <sup>3</sup> /hr - 7.0 bar
Liquid Mud:	1 x 75 m <sup>3</sup> /hr - 18 bar
Brine / Mud:	1 x 75 m <sup>3</sup> /hr - 18 bar
Dry Bulk:	2 x 78 m <sup>3</sup> /hr - 5.6 bar, 80 psi
Cargo Flow Meters :	Fuel oil & Fresh water
Hose Connections :	Fuel - 4" Camlock Potable Water - 4" Camlock Drill Water - 4" Camlock Liquid Mud - 5" Camlock Dry Bulk - 4" Camlock

### Performance

Speed / Fuel Consumption:	Maximum speed 13.5 knots free running at 100% MCR - approximate fuel consumption 19 m <sup>3</sup> per day Economical speed 10 knots - approximate fuel consumption 10.5 m <sup>3</sup> per day Idle at sea - approximate fuel consumption 2.3 m <sup>3</sup> per day Idle in port - approximate fuel consumption 0.8 m <sup>3</sup> per day
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### Dynamic Positioning

Type:	Converteam C Series DP1 System
Reference Systems:	Veripos DGPS, MDL Fanbeam5
Control Modes:	Manual, DP, JSAH, JSMH
Joystick:	1 x Converteam IJS



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### External Fire Fighting

Capacity:	2 x 1200 m <sup>3</sup> /hr = 2400 m <sup>3</sup> /hr
Monitors:	2 x 1200 m <sup>3</sup> /hr mounted on wheelhouse top, remotely controlled from wheelhouse
Throw Length:	120 m
Throw Height:	50 m at 70 m distance

### Standby Rescue Equipment

1. 1 x Vanguard VG 6.0 FRW, 15 persons, SOLAS approved FRB with inboard diesel waterjet propulsion.
2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.

### Anti-Pollution

Dispersant Tank:	9.190 m <sup>3</sup>
Spray Nozzles:	4 x spray nozzles (2 at each side), outreach: 12 m

### Accommodation

Berths:	4 x 1 berths 5 x 2 berths 2 x 4 berths 22 berths in Total 1 x combined messroom/recreation room 1 x galley All living space fully air-conditioned, design 45 deg C / 70% RH outside, 25 deg C / 50% RH inside
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### Environmental Features

1. Real time main engine fuel consumption monitoring, ensuring maximum fuel efficiency and emissions reduction
2. Coffin 5 ppm oily water separator, effluent quality exceeds the 15 ppm current legislation requirements
3. 1 x Omnipure sewage plant, complies with latest 2010 IMO Resolution MEPC 159(55)
4. Cargo load / discharge stations with saveall to inboard tank
5. Low residue design bulk tanks
6. Mud tanks with dedicated recirculation pumps
7. Macerator fitted in galley. Provision for recycling of waste

### Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 1974, and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel"
2. Bulk systems remotely controlled from wheelhouse

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3. Fitted with 3 halogen searchlights (1 fwd, 2 aft), each 2000 W, on wheelhouse top and electrically operated from inside wheelhouse, 8 x 1000 W floodlights for cargo deck
4. Deck power supplies:
  - 4 x 250A, 440V, 3phase
  - 1 x 63A, 440V, 3 phase
  - 1 x 32A, 220V, single phase
5. Wood sheathed main deck for aft area, which is steel plated for anchor handling. Supplied with anchor grapnel
6. Welding / cutting equipment and lathe in workshop
7. Fresh water ultra violet steriliser
8. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room / emergency generator room. Independent CO2 system for Galley.
9. Fire detection system fitted to the accommodation, engine room and throughout the vessel
10. Statutory liferafts, life-jackets, pyrotechnics
11. Removable crash rail sections on main deck (PS & SB) to facilitate R.O.V. operation