



M/V Pacific Phoenix

- ▶ **Bollard Pull** 53-66 tonnes
- ▶ **Brake Horsepower** 4826-5147 BHP
- ▶ **Clear Deck Space** 275-330 m²
- ▶ **Winch Line Pull** 150 tonnes

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Clear Deck Space	275-330 m ²	Winch Line Pull	150 tonnes

General Information

Built:	Qingdao Qianjin Shipyard, China, June 2011
Flag:	Singapore
Call Sign:	9V7612
IMO No.:	9503419
Classification:	DNV-GL +1A Fire fighter(I) Offshore service vessel(Anchor handling, Towing) DPS(1)

Dimensions

Length, overall:	57.50 m
Length, BP:	50.50 m
Breadth, moulded:	14.00 m
Depth, main deck:	6.00 m
Design draft:	4.55 m
Maximum draft midship:	5.10 m
GT:	1329
NT:	484
Length between P.P.:	50.5 m

Capacities

Deadweight (maximum):	1550.51 t
Clear Deck Area:	30m x 11m = 330 m ²
Deck Strength:	General deck - 5 t/m ² Aft AH deck - 19 mm steel plate
Deck Cargo:	500 t
Fuel:	566.286 m ³ (dedicated)
Potable Water:	396.73 m ³
Ballast Water:	371.866 m ³
Ballast Water / Drill Water:	371.866 m ³
Brine / DMA / Glycol / Liquid Mud:	147.264 m ³ or 5200 ft ³ (2 tanks dual-use Brine/Mud/DMA)
Liquid Mud:	184.432 m ³ or 6513 ft ³ (4 dedicated tanks) 331.696 m ³ or 11713 ft ³ (including 2 dual-use tanks)
Dry Bulk:	135 m ³ or 4750 ft ³ in 2 x 2 tank independent systems. Cement density max 2.35 t/m ³ and fineness 4,000 Blaine.

Machinery

Main Engines:	2 x 1920 kW = 3840 kW (5147 BHP) Yanmar 6EY26
Propulsion:	2 x CPP Kamome Propeller 2 x Independent sliding ram steering gear 2 x Electro-Hydraulic steering gear 2 x Propeller Nozzle - Cederval Espana
Bow Thrusters:	1 x 500 kW (670 BHP) Nominal Trust = abt.77 kW (7900kgf)
Stern Thrusters:	1 x 500 kW (670 BHP) Nominal Trust = abt.77 kW (7900kgf)

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Shaft Generators:	2 x 1250Kva (for fuel economy), 440V, 60Hz
Auxiliary Generators:	1 x Caterpillar-Diesel Gen 3406 400Kva, 320kW, 440V, 60Hz
Emergency Generators:	1 x Caterpillar-Diesel Gen 3406 400Kva, 320kW, 440V, 60Hz

Towing and Anchor Handling

Bollard Pull:	64 MT @ 100% MCR
Main Winch:	1 x MacGregor Plimsoll (Model: PC-AHTW/WF-150/250)
Load Capacity:	Upper and lower drum: Drum Capacity: 1200m x dia.64mm SWR@ 9 layers Rated Pull (1st layer): 150T x 0.-7.2m/min (1st speed) (2nd layer): 100T x 0.-10.8m/min (3rd layer): 50T x 0-22.0m/min GYPSY: 76mm U3, 45T x 0~23m/min BRAKE HOLDING: 250T (Static, 1st layer)
Brake Capacity:	250 tonnes (static) on towing drum 1st layer 250 tonnes (static) on AH drum 1st layer
Tow Drum Dimension:	(D)900mm x (H)2250mm x (L)1950mm
Tow Drum Wire Capacity:	1200m x 64mm (2.5 inch) diameter
AH Drum Dimension:	(D)900mm x (H)2250mm x (L)1950mm
AH Drum Wire Capacity:	1200mm x 64mm Diameter
Work Drum Dimension:	(D)900mm x (H)2250mm x (L)1950mm
Work Drum Capacity:	1200m x 64mm (2.5 inch) diameter
Chain Gypsy Cable Lifter:	1 x 76mm (3 inch) diameter chain
Stern Roller:	1 x 2m diameter x 4m width, SWL 250t
Tow Pins / Guide Pins:	1 x set hydraulic Karmoy, remotely controlled
Wire Chain Stopper:	1 x retractable Karmoy, SWL 250t, controlled from wheelhouse (32 - 76mm chain)
Popup Pins:	1 set - Tow Pins/Guide Pins - 1 x Hydraulic Karmoy x 160t SWL
Spare Reel Capacity:	1 x MacGregor Plimsoll (Model: PC-HSW SD/12) (D)914.4mm x (H)2450mm x (L)1500mm Drum Capacity: 1200m x Dia64mm SWR @ 11 layers, Rated Pull: 12T x 15m/min (1st layer)

Deck Machinery

Tuggers:	2 x Model PC-HUW-10DL-0 Drum Rated Pull: 10T x 15 m/min Drum Capacity: 200m x Dia20mm SWR @ 5 layers
Capstans:	2 x Model PC-HVC-08/400 Drum Rated Pull: 10T x 10 m/min Drum Capacity: 40m x Dia20mm SWR @ 6 layers

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Windlass:	1 x MacGregor Plimsoll (Model PC-HAMW COG-3003-10/015) (D)457mm x (H)900mm x (L)590mm Chain size: 30mm Dia.U3 chain Duty Pull: 10T x 10 m/min Overload Pull: 15T Brake Holding: 33.7T (static) Winch Drum Capacity: 220m x 38mm Dia Synthetic Rope Storage @ 8 layers + Working @ 3 layers Rate Pull: 10T x 14 m/min (1st layer) Slack Speed: 30 m/min (1st layer) Brake Holding: 15T (static, 1st layer)
Bow Mooring:	1 x MacGregor Plimsoll (Model PC-HAMW COG-3003-10/015) (D)457mm x (H)900mm x (L)590mm 2 x Gypsy head (both side) capacity 10T
Smit Towing Bracket:	1 x 102t SWL located on fo'c'sle
Crane Capacity:	SWL 1500 kg @ 8m radius, make: Helia, model: HM25-8F

Electronics

Main Radar:	1 x Furuno X-band, 21 inch colour LCD, ARPA
Auxiliary Radar:	1 x Furuno S-band, 21 inch colour LCD, ARPA
Auto Pilot:	1 x Tokyo Keiki PR-6000-e
Gyro Compass:	1 x Tokimec TG-8000 with 4 repeaters
Magnetic Compass:	1 x Tokimec SH165A1
Echo Sounder:	1 x Furuno FE-700
DGPS :	1 x Furuno DG-150
Anemometer :	2 x Gill Ultrasonic Wind Observer II with Young Marine Wind Tracker, Model:06206
Speed Log:	Furuno Doppler Speed Log (Model DS-80)
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 1 x Navtex
Watch System:	1 x BNWAS, Martec Marine, Navguard Ver 1.00
Weather Fax:	Furuno FAX 408
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	Furuno FA 150
VHF:	1 x Aft Furuno FM 8800S Semi Duplex Marine VHF 1 x Forward Furuno FM 8800D Full Duplex Marine VHF
VRU:	1 x Teledyne TSS DMS-RP30

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Discharge Pumps

Fuel Oil:	1 x 100 m ³ /hr - 7.0 bar
Base Oil:	2 x 75 m ³ /hr - 5.6 bar
Dirty Oil:	1 x 10 m ³ /hr - 2.0 bar
Potable Water:	1 x 150 m ³ /hr - 7.0 bar
Drill Water:	1 x 150 m ³ /hr - 7.0 bar
Liquid Mud:	1 x 75 m ³ /hr - 18 bar
Brine / Mud:	1 x 75 m ³ /hr - 18 bar
NLS (Brine / Liquid Mud / Base Oil):	2 x 75 m ³ /hr - 5.6 bar
Dry Bulk:	2 x 78 m ³ /hr - 5.6 bar, 80 psi
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 ³ per day Economical speed 10 knots - approximate fuel consumption 10.5 m ³ per day Idle at sea - approximate fuel consumption 2.3 m ³ per day Idle in port - approximate fuel consumption 0.8 m ³ per day
Consumption Under Towing:	21 m ³ /day

Dynamic Positioning

Type:	DP 1 C - series version 6.12
Reference Systems:	Fanbeam, DGPS, Veripos LD5
Control Modes:	GE Joystick Manual/Auto Heading, Auto Track, Minimum Power, Simulation, Dynamic Positioning.
Joystick:	1 x GE DPS11 - Simplex DP + IJS 1 x Converteam (AFT Control Console) System Version: 6.12 build 1 Configuration Files: 1.01

External Fire Fighting

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

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Standby Rescue Equipment

- 1 x Vanguard VG 6.0 FRW, 15 persons, SOLAS approved FRB with inboard diesel waterjet.
1 x Maritime Partner MP111 TWJ, 10 persons, SOLAS approved FRDC with 2 x inboard diesel waterjet.
- Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes

Anti-Pollution

Dispersant Tank:	9.19 m ³
Spray Nozzles:	4 x spray nozzles (2 at each side), outreach: 12m

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

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

Miscellaneous

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

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4. Deck power supplies:
 - 4 x 250A, 440V, 3phase
 - 1 x 63A, 440V, 3phase
 - 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