



## M/V Pacific Pelican

- ▶ **Bollard Pull** 53-76 tonnes
- ▶ **Brake Horsepower** 4826-5147 BHP
- ▶ **Clear Deck Space** 324-330 m<sup>2</sup>
- ▶ **Winch Line Pull** 150 tonnes

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### General Information

Built:	Labroy Shipyard Singapore, February 2006
Flag:	Singapore
Call Sign:	9V6636
IMO No.:	9333955
Classification:	DNV-GL +1A1 Fire fighter(I) Tug DYNPOS(AUT) E0 SF

### Dimensions

Length, overall:	56.0 metres
Length, BP:	48.8 metres
Breadth, moulded:	13.5 metres
Depth, main deck:	6.0 metres
Design draft:	5.1 metres
GT:	1197
NT:	403

### Capacities

Deadweight (maximum):	1347 tonnes
Clear Deck Area:	29.5 m x 11 m = 324.5 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:	500 tonnes
Fuel:	528 m <sup>3</sup> (dedicated) 850 m <sup>3</sup> (including multiuse tanks)
Potable Water:	415 m <sup>3</sup>
Ballast Water:	131 m <sup>3</sup> (dedicated) 453 m <sup>3</sup> (including multiuse tanks)
Brine / DMA / Glycol / Liquid Mud:	107 m <sup>3</sup> (s.g. 2.5) (2 tanks - separate from mud tanks)
Liquid Mud:	214 m <sup>3</sup> (s.g. 2.5) (4 tanks)
Dry Bulk:	135 m <sup>3</sup> (4750 cubic feet) in 4 tanks
Ship's Stores:	Chiller storage - 10 m <sup>3</sup> Freezer storage - 6.5 m <sup>3</sup> Dry Provisions storage - 10 m <sup>3</sup>

### Machinery

Main Engines:	2 x 1800 kW = 3600 kW (4826 BHP) Bergen C25: 33L6P
Propulsion:	2 x CPP propellers in Kort nozzles 2 x Ulstein high lift independent rudders 2 x Electro-hydraulic steering gear
Bow Thrusters:	1 x 500 kW (670 BHP) producing 7 tonnes thrust
Stern Thrusters:	1 x 500 kW (670 BHP) producing 7 tonnes thrust
Shaft Generators:	2 x 1250 kVA x 440 V, 60 Hz
Auxiliary Generators:	2 x 270 kW Caterpillar 3406 DITA

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### Towing and Anchor Handling

Bollard Pull:	62.51 MT, continuous
Main Winch:	1 x Brattvaag SL 150W-B2T double drum low pressure winch
Load Capacity:	Towing / A/H drums 1st layer 150 tonnes at 7.2 m/min 90 tonnes at 10.9 m/min 35 tonnes at 21.9 m/min
Brake Capacity:	250 tonnes on towing drum 1st layer 250 tonnes on A/H drum 1st layer
Tow Drum Wire Capacity:	1200 m x 64 mm diameter
Work Drum Capacity:	1200 m x 64 mm diameter
Chain Gypsy Cable Lifter:	1 x 3 inch chain gypsy
Stern Roller:	1 x 2 m diameter x 4 m width, SWL 250 tonnes
Tow Pins / Guide Pins:	1 x set Karmoy, remotely controlled
Wire Chain Stopper:	1 x retractable Karmoy, SWL 250 tonnes controlled from wheelhouse
Spare Reel Capacity:	1 x 1200 m x 64 mm diameter

### Deck Machinery

Tuggers:	1 x 10 tonnes Brattvaag
Capstans:	2 x 6 tonnes Brattvaags
Windlass:	7.2 tonne pull Brattvaag, 2100 kg high holding power anchors 450 m x 32 mm chain each side, plus 1 spare anchor
Bow Mooring:	1 x mooring drum capacity 150 m x 38 mm synthetic rope
Crane Capacity:	2 tonnes at 7 m radius. Make: Plimsoll

### Electronics

Main Radar:	1 x Furuno 21 inch colour X-band, ARPA
Auxiliary Radar:	1 x Furuno S-band, 15 inch
Auto Pilot:	1 x Kongsberg Simrad AP9 Mk3
Gyro Compass:	1 x Tokimec TG8000, with repeaters
Magnetic Compass:	1 x Cassen & Plath
Echo Sounder:	Furuno FE-700
DGPS :	Furuno GP-90
Anemometer :	Young
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 EPIRB 1 x Navtex
Weather Fax:	Furuno, Fax-408
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900
AIS:	Furuno FA-100

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### Discharge Pumps

Fuel Oil:	1 x 100 m <sup>3</sup> /hr - 7.0 bar
Dirty Oil:	1 x 2.0 m <sup>3</sup> /hr - 2.0 bar
Potable Water:	1 x 100 m <sup>3</sup> /hr - 7.0 bar
Drill Water:	1 x 100 m <sup>3</sup> /hr - 7.0 bar
Liquid Mud:	1 x 75 m <sup>3</sup> /hr - 15.0 bar
Brine / Mud:	1 x 75 m <sup>3</sup> /hr - 15.0 bar
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 - 3" Camlock
	Potable Water - 3" Camlock
	Drill Water - 4" Camlock
	Liquid Mud - 4" Camlock
	Dry Bulk - 5" Camlock
	Adapters 4"-5", 5"-4", 4"-3" & 3"-4"

### Performance

Speed / Fuel Consumption:	Maximum speed 14.1 knots free running @ 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

### Dynamic Positioning

Type:	DPS11-Simplex DP from GE
Reference Systems:	Veripos DGPS LD5 Integrated Mobile unit and MDL Fanbeam
Control Modes:	JOYSTICK, JSMH, JSAH, DP MODE CLASS1
Joystick:	Poscon - Electronic control system joystick, integrated to main propellers, main engines, rudders, side-thrusters and interfaced to gyro compass

### 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
Drenching System:	Fitted

### Standby Rescue Equipment

1. 1 x Maritime Partner Weedo 17, 6 persons, SOLAS approved Rescue Boat with 2 x petrol outboards propulsion.  
Spare engine: 2 x petrol outboards propulsion

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2. Rescue Zones on both Port and Starboard side, main deck, with scrambling net and personnel transfer swing ropes.

### Anti-Pollution

Dispersant Tank:	10.6 m <sup>3</sup>
Spray Booms:	2 x 6 m

### Accommodation

Berths:	4 x 1 (single) berths
	5 x 2 (double) berths
	2 x 4 (four) berths
	22 berths Total
	1 x messroom
	1 x galley
	1 x recreation room
	All living space fully air-conditioned, design 45 deg C outside, 25 deg C inside

### Environmental Features

1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and dedicated recirculation pumps.
2. Cargo load/discharge stations 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. Macerator fitted in galley. Provision for recycling of waste.

### Miscellaneous

1. Design complies to latest rules and regulations from SOLAS 2000, and IMO 469 (XII) "Guidelines for the design and construction of offshore supply vessel".
2. Bulk systems remotely controlled from wheelhouse.
3. Fitted with water lubricated rubber pusher bow.
4. Fitted with 4 halogen searchlights, each 2000W, wheelhouse top and manually operated from inside wheelhouse, 6 x 1000W flood-lights, for cargo deck.
5. Deck power supplies:
  - 1 x 1000 A x 440 V x 3 ph
  - 1 x 63 A x 440 V x 3 ph
  - 1 x 32 A x 220 V x 1 ph
6. Wood sheathed main deck except for aft area, which is steel plated for anchor-handling. Supplied with Anchor Grapple.
7. Welding and cutting equipment and lathe in workshop.
8. Fresh water ultra violet sterilizer.
9. Fire detection system fitted to the accommodation, engine room and all other spaces.

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10. CO2 fire extinguishing system fitted in the engine room / paint locker / hydraulic pump room.
11. Statutory liferafts, life-jackets, pyrotechnics.
12. Removable crash rail section on main deck to facilitate R.O.V. operations.