



M/V Pacific Aurora

- ▶ **Brake Horsepower** 6220 BHP
- ▶ **Clear Deck Space** 735 m²
- ▶ **Deadweight** 3118-3255 tonnes
- ▶ **Deck Cargo Capacity** 1600 tonnes

M/V Pacific Aurora

Brake Horsepower	6220 BHP	Clear Deck Space	735 m2
Deadweight	3118-3255 tonnes	Deck Cargo Capacity	1600 tonnes

General Information

Built:	Pan United Shipyard (Singapore), September 2008
Flag:	Singapore
Call Sign:	9VGX4
IMO No.:	9386287
Classification:	DNV-GL +1A1 Fire fighter(I) DYNPOS(AUTR) E0 SF

Dimensions

Length, overall:	73.4 metres
Length, BP:	66.8 metres
Breadth, moulded:	16.0 metres
Depth, main deck:	7.0 metres
Maximum draft midship:	5.9 metres
Design draft:	5.0 metres
GT:	2218
NT:	955

Capacities

Deadweight (maximum):	3243 tonnes
Clear Deck Area:	735 m2 (49 x 15 m)
Deck Strength:	5 tonnes / m2
Deck Cargo:	1600 tonnes
Fuel:	1181 m3 at 100% (dedicated) 2093 m3 at 100% (including optional tanks)
Potable Water:	743 m3
Ballast Water:	517 m3
Brine / DMA / Glycol / Liquid	
Mud:	344 m3
Liquid Mud:	912 m3
Dry Bulk:	306 m3

Machinery

Main Engines:	2 x Bergen diesel engines each 2320 kW = 4640 kW (6220 bHP)
Propulsion:	2 x RRM CP propeller system 600 AGSC-KP-66 P1/4T-2900
Bow Thrusters:	2 x 600 kW (2 x 804 BHP) Kamewa/RRM
Stern Thrusters:	2 x 600 kW (2 x 804 BHP) Kamewa/RRM
Shaft Generators:	2 x 1600 kVA x 440V x 60Hz
Auxiliary Generators:	1 x 325 kVA 440V 3-Phase 60Hz Caterpillar
Emergency Generators:	1 x 325 kVA 440V 3-Phase 60Hz Caterpillar

Deck Machinery

Tuggers:	2 x 10 tonnes each, hydraulic
Capstans:	2 x 10 tonnes each, hydraulic
Windlass:	1 x 10 tonnes, hydraulic

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Crane Capacity: 1 x 1.5 tonne, 10 metre fixed boom

Electronics

Main Radar:	Furuno FAR-2137S, S-band (10 cm), ARPA, 20 ins display
Auxiliary Radar:	Furuno FAR-2117, X-band (3 cm), ARPA, 20 ins display
Auto Pilot:	Tokimec PR 6000
Gyro Compass:	3 x Tokimec TG8000 with repeaters in wheelhouse, bridge sides and steering gear room
Magnetic Compass:	Tokimec SHB-165A
Echo Sounder:	Skipper GDS101
DGPS :	Veripos
Anemometer :	2
Speed Log:	Furuno DS 80
Communications:	Furuno G.M.D.S.S (Global Maritime Distress & Safety System) 1 x SSB 2 x VHF 2 x Inmarsat C 3 x VHF (portable) 2 x SART 1 x EPIRB 1 x Navtex
Watch System:	Furuno
Weather Fax:	Furuno
Satellite Communication:	FBB: Sailor 500 VSAT: Sailor 900

Discharge Pumps

Fuel Oil:	100 m3 / hr - 7.0 bar
Base Oil:	150 m3 / hr - 7.0 bar
Potable Water:	150 m3 / hr - 7.0 bar
Drill Water:	150 m3 / hr - 7.0 bar
Liquid Mud:	75 m3 / hr - 18.0 bar
Brine / Mud:	75 m3 / hr - 18.0 bar
Dry Bulk:	80 m3 / hr - 5.6 bar, 80 psi, 2 compressors
Hose Connections :	Fuel Oil - 3" camlock forward and 4" Todo aft Potable Water - 4" Weco Drill Water - 4" Weco Mud - 4" Todo Dry Bulk - 5" Weco

Performance

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Speed / Fuel Consumption: 14.5 knots maximum speed
@ 12 knots, fuel consumption is 15.0 tonnes per day
@ 10 knots, fuel consumption is 8.6 tonnes per day
@ 100% MCR (4640 kW), fuel consumption is 24 tonnes per day

Dynamic Positioning

Type: DP II - Alstom A - Series Duplex
Reference Systems: USBL HPR / DGPS / Cyscan
Control Modes: Auto sail / Track follow / ROV follow
Joystick: Converteam. Joystick is not independent, it is "Workstation 3" of the DP system

External Fire Fighting

Capacity: 2 x 1500 m³ / hr pumps = 3000 m³ / hr
Monitors: 2 x 1200 m³ / hr Jet / Foam / Spray on wheelhouse roof, remotely operated from wheelhouse
Throw Length: 120 m
Throw Height: 50 m

Standby Rescue Equipment

1. 1 x Maritime Partner Seabear 23 MKII, 10 persons, SOLAS approved FRB with inboard diesel waterjet propulsion.

Anti-Pollution

Dispersant Tank: 10.8 m³
Spray Booms: 2 x 60cm long

Accommodation

Berths: 7 x 1 berths
6 x 2 berths
2 x 4 berths
1 x 4 berths in hospital
31 berths in total

Environmental Features

1. Cylindrical mud tank free flowing design with external stiffening, sloped floors and dedicated recirculation
2. Cargo load / discharge stations with save all to inboard tank
3. 1 x 15 ppm oily water separator
4. 1 x sewage plant, extended aeration type
5. Vessel is fitted with a mascerator
6. Low residue design bulk tanks

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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. F.O. and Mud systems are controlled by a Tanktender system with discharge printer for Fuel Oil.
3. Fitted with 2 Halogen searchlights, each 2,000W, wheelhouse top and electrically operated from inside wheelhouse, 4 x 1,000W flood-lights, for cargo deck.
4. Deck power supplies:
 - 1 x 1000A x 440V x 3ph
 - 1 x 63A x 440V x 3ph
 - 1 x 32A x 220V x 1ph
5. Wood sheathed main deck throughout with deck loading of 5 tonnes per square metre.
6. Welding and cutting equipment and lathe in workshop.
7. Fresh water ultra violet steriliser.
8. Fire detection system fitted to the accommodation, engine room and all other machinery spaces.
9. CO2 fire extinguishing system fitted to cover the engine room, paint locker, emergency generator room and galley vent trunking.