



M/V Pacific Heron

- ▶ **Brake Horsepower** 8927 BHP
- ▶ **Clear Deck Space** 1000 m²
- ▶ **Deadweight** 4697-4706 tonnes
- ▶ **Deck Cargo Capacity** 2400 tonnes

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General Information

Built:	USC Japan, January 2013
Flag:	Singapore
Call Sign:	9V9593
IMO No.:	9579121
Classification:	DNV-GL +1A1 Fire fighter(I) Supply vessel Clean(Design) COMF(V-3) DK(+) DYNPOS(AUTR) E0 HL(2.8) LFL(*) NAUT(OSV(A)) SF

Dimensions

Length, overall:	88.1 m
Length, BP:	78.1 m
Breadth, moulded:	19.0 m
Depth, main deck:	8.0 m
Maximum draft midship:	6.6 m
Design draft:	5.9 m
GT:	4059
NT:	1600
Length between P.P.:	78.144 m
Breadth:	19.0 m
Draft minimum:	3.14 m
Draft maximum:	6.638 m

Capacities

Deadweight (maximum):	4697 tonnes
Clear Deck Area:	1000 m ² (62m x 16.13m)
Deck Strength:	10 T/m ² Aft of Frame 30, 5 T/m ² Fwd of Frame 30
Deck Cargo:	2400 tons
Fuel:	Dedicated - 814 m ³ Total capacity - 953 m ³ (including two BO tanks each 69.6 m ³)
Potable Water:	597 m ³
Ballast Water / Drill Water:	2612 m ³ in dedicated tanks
Brine / DMA / Glycol / Liquid Mud:	979 m ³ in multi purpose mud/brine/WB/DW tanks
Special Liquids:	Methanol: 167 m ³
Dry Bulk:	321 m ³
Base Oil:	139 m ³ in multi purpose BO/FO tanks 306 m ³ when using multi purpose methanol/BO tanks
Ship's Stores:	Freezer capacity - 14 m ³ Cooler Capacity - 22 m ³ Dry Store on Main deck - 37 m ³ Dry Store on A deck - 20 m ³

Machinery

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Main Engines:	4 x Wartsila 9L20 each 1665 kW = 6660 kW (8927 bHP) driving AVK generators each 1600 ekW
Propulsion:	2 x 2200 kW Azimuth (2 x 2949.06 BHP), high efficiency contra rotating (CRP) propellers for fuel savings of 10-15%
Azimuth Thruster:	1 x Azimuth Bow Thruster
Bow Thrusters:	1 x 880 kW (1180 BHP) electric motor driven tunnel type, FPP, frequency controlled 1 x 880 kW (1180 BHP) azimuth electric motor, driven retractable type, FPP, frequency controlled
Emergency Generators:	1 x 370 Kw @ 1800 rpm / 450V / 3 ph / 60Hz (also harbour generator), SCANIA DI16 55M

Deck Machinery

Tuggers:	ODIM Brattvaag 4405-TUW-SH4404-223 2 x 10.3 tonne x 19 m/min 240m of Dia 19mm
Capstans:	ODIM Brattvaag 1105-CAP-10T-PG1803MC-420-H 2 x 10 tonne x 24 m/min
Windlass:	ODIM Brattvaag OBW 7016 48K3 2 x electric motor driven Hawser Drum - 19.8ton x 11 m/min, 7.3ton x 30 m/min Capacity 180m Dia 75mm Cable Lifter - 15.5 ton x 9 m/min (Grade K3) Warping Drum - 2 sets
Bow Mooring:	2 x Stockless bow anchor + chains 2 x 276.25m (total 552.5m), Grade 3
Crane Capacity:	Deck Cranes 1 x KOEI KCH50-10.OPS 5 t @ 10 m radius 1 x KOEI KCH100-10.OPS 1 t @ 10 m radius

Electronics

Main Radar:	JRC-JMA 922B 6XA
Auxiliary Radar:	JRC-JMA 9100 Series
Auto Pilot:	1 x Yokogawa Adaptive Autopilot PT500A-P-Analog
Gyro Compass:	3 x Yokogawa CMZ900D
Magnetic Compass:	1 x Yokogawa SR-165
Echo Sounder:	1 x JRC JFE680
DGPS :	2 x JRC JLR-7800
Anemometer :	2 x Gill Instruments - Wind Observer 2 Ultrasonic
Speed Log:	1 x Yokogawa EML500-HV1

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Communications:	GMDSS 1 x HF / MF SSB radio telephone (150W) - JRC JSS-296 1 x NBDP telex station - JRC NDZ-127 1 x Navtex receiver - JRC NCR333 2 x International VHF radio telephone - JRC JHS770S 1 x Inmarsat C - JRC JUE-85 1 x EPIRB - Jotron-TRON-60S 3 x Two Way VHF radio telephone JHS - 7 UHF transceiver system - 1 set with 3 fixed stations and 8 portable transceivers - MOTOROLA GM360 1 x Inmarsat F - FB500 SAT-COM 1 x Inmarsat F - DATA LINK 1 x JRC NCM1770 (VHF)
Watch System:	1 x Unisafe 802
ECDIS:	3 x JRC Jan-901B
Weather Fax:	1 set - JRC JAX 9B
Satellite Communication:	FBB: Sailor 500
AIS:	1 x JRC JHS-182
Voyage Data Recorder(VDR):	1 x JCY 1800
VHF:	4 x JRC NCM 1770 VHF Controller
Electronic Chart Display:	2 sets - JAN 901B
VRU:	3 x Teludyne VRU
BNWAS:	Uni Safe Systems - BW 800

Discharge Pumps

Fuel Oil:	2 x 150 m3/hr @ 90 m head (Electric, 2-speed)
Base Oil:	2 x 78 m3/hr @ 90 m head (Electric, 2-speed)
Potable Water:	2 x 150 m3/hr @ 90 m head (Electric, 2-speed)
Ballast / Drill Water:	1 x 250 m3/hr @ 90 m head (Electric, Variable Speed)
Liquid Mud:	2 x 100 m3/hr @ 90 m head (Electric, 2-speed)
Brine / Mud:	2 x 100 m3/hr @ 90 m head (Electric, 2-Speed)
Dry Bulk:	80 m3/hr @ 5.6 bar
Cargo Flow Meters :	Fuel Oil, Brine, Base Oil & Fresh Water
Special liquid (Methanol):	2 x 78 m3/hr @ 90 m head (Hydraulic)
Nitrogen System:	188 sm3/hr @ 95% N2
Hose Connections :	Fuel-midships port and stbd 4" Todo male. Fuel aft stbd 3" Todo male. Liquid mud- midships port and stbd 5" Weco fig 50 male. Port aft 4" Todo male. Brine- midship pt and stbd 5" weco fig 50 male. Aft port 4" Todo male. Methanol - 4" Todo male Drill Water - 5" Weco Fig 50 Female Potable Water - 5" Weco Fig 50 Female Cement - 5" Weco Fig 50 Female Base Oil - 4" Weco Fig 207 Female

Performance

Full Speed:	14 kts @ 29 m3
Economical Speed:	9 kts @ 12 m3

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In Port: 2 m³

Dynamic Positioning

Type: DP2 system, Converteam "C" series
Reference Systems: 2 x DGPS Veripos LD5 units
1 x Cyscan Mk 4
1 x Radascan (Mini)
Control Modes: Port & starboard DP remote control stations
Joystick: Independent, Converteam

External Fire Fighting

Capacity: 1 x 2400 m³/hr = 2400 m³/hr
Monitors: 2 x 1200 m³/h = 2400 m³/hr monitors remotely operated from wheelhouse
Throw Length: 120m
Throw Height: 50m
Drenching System: Fixed water spray 1050 m³/hr
Foam Tank : 1.8 m³

Standby Rescue Equipment

1. 1 x Merlin 615 Norsafe, 13 persons, SOLAS approved FRC with inboard diesel engine waterjet propulsion. Speed with 3 persons approx. 27 knots. Davit for quick launch and recovery.

Anti-Pollution

Dispersant Tank: 10.8 m³
Spray Booms: 2 x booms with nozzles optimised for dispersant spraying giving approx. droplet size in range 500-1200 microns
Spray Nozzles: Pump:
1 x Ayles Fernie/Hydro 1500 - 12 m³/hr @ 2-3 bar

Accommodation

Berths: 10 x Single Cabins
15 x Double Cabins
2 x Single / Double Pullman Style Cabins
Total No. of Berths = 44

Miscellaneous

1. FuelTrax Marine Fuel Monitoring System.
2. 6 x 25 person, Inflatable rubber liferafts.
3. Oily water separator 1 x 1 m³/hr.
4. Sewage Treatment Plan.
5. Bridge central alarm system - 1 set STX-NOE.
6. Agitators with hydraulic drives are installed in the cylindrical mud tanks.

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FUEL EFFICIENCY

FUEL OIL CONSUMPTION ON PASSAGE

Fuel Oil Consumption (t/24 hours)-Seastate 4 ^φ				
Draft(m)	10.00 knot	12.00 knot	14.00 knot	15.00 knot
4.00	9.40	11.52	14.81	18.86
5.00	11.59	13.92	17.91	22.89
5.50	12.68	15.13	19.48	24.82
6.00	13.61	16.37	20.89	26.91
6.33	14.27	17.09	21.89	28.01
6.66	14.77	17.70	22.57	29.09

φ: Seastate 4 is Moderate breeze, 11–16 knot wind, 3.5–6 ft wave height