

Jaya Mermaid 3



PRINCIPAL PARTICULARS

Length Overall	49.00 m
Length Waterline	47.50 m
Breadth Moulded	13.20 m
Depth Moulded	5.30 m
Draft (max)	4.50 m
Date/Place Built	2007
GRT/NRT	895/TBA
Class	Bureau Veritas
Notation	Class 1 + Hull + MACH, Tug Unrestricted Navigation
Flag	Singapore
Call Sign	TBA
Official No	TBA

PERFORMANCE

Maximum Speed	13 knots
Economical Speed	10 knots
Type of Fuel	Marine Gas Oil
Fuel Consumption	19m ³ /24 hours @ max speed 12m ³ /24 hours @ econ speed
Bollard Pull	60T

CARGO CAPACITIES

Deadweight	860 tonnes
Deck Cargo	200 tonnes
Deck Strength	7.5 tons/m ² uniform loading
Clear Deck Area	240 m ² approx
Fuel Oil	950 m ³ approx
Fresh Water	50 m ³ +water maker
Fresh / Ballast Water	40m ³
Drill Water/SWB	TBA
Freezer/Chiller	8m ³ / 8m ³
Foam/Detergent	10 m ³ approx

DISCHARGE RATES

Fuel Oil	100 m ³ /hr @ 60 m head, Azcue
Potable Water	70 m ³ /hr @ 60 m head, Azcue
SWB Water	50 m ³ /hr @ 35 m head, Azcue

PROPULSION SYSTEM

Main Engines	2 x 1,920 kW (2575 BHP) @ 1600 rpm Caterpillar 3516B
Generators	3 x 240 kw @ 1500rpm Caterpillar 2408 c/w Leroy Somer LSAM 47.1L9 alternators rated 320kW 415/3/50
Emergency Generator	1 x 60kW @ 1500 rpm Caterpillar E4.4 rated 60 kW/416/3/50
Shaft Alternator	Nil
Bow Thruster	1 x 440 kw electric driven HRP4000 tunnel type *(CPP) 6T trust
Steering Gear	2 x Kobelci; 4T, 2 x 35 deg rudder angle

Propellers	2 x CPP type Kort Nozzle, Berg
Rudders	2 x high performance streamline type

DECK EQUIPMENT

Anchor Windlass	1 x electro-hydraulic Mentrade MM1022-HAW drum
Bow Anchors	2 x 1140 kg HHP anchors
Chains	192m (L) x 34mm (dia) Grade U2 (each side)
Capstan	2 x 5T @ 15m/min electro-hydraulic Mentrade MM 1022-HVC
Tugger Winch	2 x 10T @ 15m/min electro-hydraulic Mentrade MM 1022 HUV
Drum capacity	220m(L) x 22mm (dia) SWR
Tugger AH Winch	1 x electro-hydraulic double drum Mentrade MM-AHTW-150T
Stern Roller	4m (L) x 1.8m (dia) SWL 200T
Shark Jaws	1 set electro-hydraulic Kamfork – SWL 300 T
Tow Pins	2 x electro-hydraulic with turntable top flaps
Rope Reel	1 x electro-hydraulic Mentrade HSR-1 Suit for 1000 m (L) x 50mm (dia) SWR
Deck Crane	1 x 5T @ 10m electro-hydraulic Palfinger PK32080 MC

ACCOMMODATION (All cabins fully air-conditioned)

Crew	3 x 1 berth cabins 2 x 2 berth cabins 5 x 4 berth cabins
TOTAL	27 crew
Hospital	1 x 1 berth cabin

RADIO AND NAVIGATION EQUIPMENT

GMDSS	Furuno RC-1800T (Area 3) comprising:
SSB	1 x Furuno FS-2570 with built in DSC
Inmarsat C	1 x Furuno Felcom 15
	1 x Furuno Felcom 15SSAS
VHF Radio	2 x Furuno FM 88800 with built-in DSC
Navtex Receiver	1 x Furuno NX700 (518KHz)
SART	2 x McMurdo S4 (9GHz)
EPIRB	1 X McMurdo E3A
Portable VHF Radio	2 x McMurdo R2 (25 KHz)
Radar	1 x Furuno FR2115 1 x Furuno FR 1510 MK3
Echo Sounder	1 x Furuno FE700
DGPS	1 x Furuno GP 150
Gyrocompass	1 x Anschuetz Standard 22
Autopilot	1 x Anschuetz Nautopilot NP60
Magnetic Compass	1 x Cassens & Plath Reflecta 3
Weather Fax	1 x Furuno Fax 207
Speed Log	1 x Furuno DS-80
AIS	1 x Furuno FA-150
Joystick	C-Joy Bridge Mate, Marine Technology

FIRE FIGHTING EQUIPMENT

FiFi System	Class 1 with water curtain all round
Fire Pump	2 x 1540 m ³ /hr @ 13 bar Unitor SFP 250x350 Driven by front PTO or M/E
Monitors (waterfoam)	1 x 300 1200m ³ /hr Unitor FFS1200LB
(Water)	1 x 1200 m ³ /hr Unitor FFS 100LB Throw length / height 120m/45m Oil Dispersant System 1 set Unitor c/w 2 spray booms Emergency Fire Pump 1 x 35m ³ /hr at 50m head; Azcue BA Recharging Comp 1 x 260ltr/ min @300 bar; coltri MCH16/E-TS CO2 system in engine room Fire Detection & Alarm System in living spaces engine room

MISCELLANEOUS

Search Lights	2 x 2,000 W
Floodlights	5 x 1,500 W
Liferafts	2 x 27 SOLAS approved
Rescue Boat	1 x 6 men semi-rigid inflatable c/w 25HP Mercury
Rescue Boat	1 x 6 men semi-rigid c/w O/B 40HP
Oil/Water separator	1 x 1 m ³ /hr c/w 15ppm alarm, Wuhan Zingda
Water Maker	1 x 5m ³ /day Reverse Osmosis, Searly Tech
Sewage Treatment	1 x 30 men/day, Wuhan Zingda

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