



		Towing Anchor/Winch	BRATTVAAG double drum waterfall hydraulic winch type SL150W-B2T with remote controls in wheelhouse 150T pull @ 0-10.2m/min, 2 units 1200m x 60mm wire
Registry	Singapore		
Year of Delivery	2002	Tugger Winch	2 x BRATTVAAG 10 Ton line pull @ 0-44m/min
Type	Ocean Going / Anchor Handling / Towing Tug	Wire Storage Reels	2 x 9.1T line pull at 0.51m/min hydraulic wire storage reels of 1200m x 60mm dia, 1 x 18.2T line pull at 0-21m/min hydraulic wire storage reel with capacity of 1200m x 60mm dia SWR, One storage reel will contain 1200 M X 60 MM of sparetowing wire and one reel should have various sizes of pennant wires
Classification	ABS: + A1,(E), + AMS Towing Anchor Handling		
Dimensions	48m x 13 x 6m		
GRT / NRT / DWT	1021T / 306T / 700T		
Draft	5.4m (Designed) / 6.4m (max)(including Skeg)	Towing Pins & Sharkjaws	KARM FORK combination unit with 2 towing pins & 2 sharkjaws
Clear Deck Space	20 x 10m	Anchor Windlass	Hydraulic 8.5T @ 13 m/min BRATVAAG
Speed	13 Knots	Anchor Windlass	Hydraulic 8.5T @ 13 m/min BRATVAAG
Bollard Pull	Approx 95 T	Anchor chain	2 x 275m x 34mm diameter U2 steel stud link chain
Endurance	30 days	Crane	North American Crane model MCT 2-2568, capacity 2.7T @ 20.7m / 10T @ 7.6m
Accommodation	Fully air-conditioned for 26 men	Radar	2 x IMO approved X- band marine radar c/w 6.5ft scanner and performance monitor. FURUNO model FR2115 (#1) & FR- 1510 MIKIII (#2)
Lifesaving	Comply to SOLAS requirements	SSB	Radio console, FURUNO RC-1500-IT-24V DC/240V DC/240V AC with manual c. over to emergency supply antenna feeder trough insulators, c/w DSC & NBDP to meet GMDSS requirements, SSB FURUNO model FS-1562'-25 (250W), 200 CHS. Area A3
Firefighting	Comply to SOLAS requirements	VHF	2 x VHF/FM multi-channel marine radio telephones FURUNO model FM-8500-25W
Fuel	780 Cubic Meters	Gyro & Automatic Pilot	1 set fitted. Gyro-Tokimec TG6000. Autopilot-Furuno Model FAP-330
Fresh water	229 Cubic Meters	Weather Facsimile	1 x FURUNO FAX-207
Freshwater Maker	10 mt/day	Other Navigation/ Communication Equipments	INMARSAT-C, EPIRB, Radar Transponder, P.A. System c/w Fog Horn Signal Navtex Receiver, GPS Navigator, 1 x Satellite FBB Tel & Email, Echo Sounder, (colour), 2 VHF walkie talkie
Main Engines & Gearboxes	2 x MAK 6M23 diesel engines producing 4000 bhp each @ 600 rpm c/w reinterjes 2 x Reinterjes type LAF4555 reduction gearboxes	Dispersant Booms	2 x 8m dispersant booms fitted
Bow Thruster	1 x 500 bhp BRUNVOLL type cpp - thrust 6.0T	Sewage Treatment Plant	Taiko Kikai SBT- 40 for 40 men
Generators	3 x 400 KW, CAT 3412 Dita main generator 380/3/50, diesel driven generators 1 x 99kw, CAT3306 DITA emergency generator	Fire Monitors	2 fixed foam/water fire monitors of 10000 liters/min each @ 130m head capacity. 1 x Fire Pumps of 1400m³ /hour each
Main Engines Consumption	22M/T MGO and 80 litres lube oil per 24 hours @ full power. 14 T MGO and 60 litres lube oil per 24 hours @ economic cruising speed of 10 knots	Fendering	Flat bar doubler plates of 30 x 350mm cross section welded to side shell. At bow tyre fenders of approx 2000mm provided
Generator Consumption	800 litres MGO and 10 litres lube oil per 24 hours		
Propulsion	2 x 3500mm diameter, 4-bladed CPP propeller manganese bronze in kort nozzles	Rescue Boat	1 x 6 men
Steering Gear	Electro hydraulic, 11 Ton torque		
Fuel oil purifier	1 x SJ10F Mitsubishi self cleaning fuel oil purifier		
Lube oil purifier	1 x SJ15F Mitsubishi self cleaning lube		

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE