



BRITTOIL 120

12,240 BHP | 150 t BP | AHT

Class Notation: A1, Towing Vessel, AH, Fire Fighting Vessel Class 1, AMS

Main Particulars	
Particular	Detail
Flag	Singapore
IMO	9538696
Call Sign	9V7116
Built	2010
Length Overall	59 m
Depth (Moulded)	7.5 m
Breadth (Moulded)	16 m
Max Summer Draft	6.0 m
Gross Tonnage	2,375 t
Net Tonnage	712 t
Deadweight	1,481 t

Main Engines & Generators	
Component	Specification
Main Engines	2 x MaK 9M32C, 6,120 BHP each @ 600 rpm
Gearboxes	2 x Reintjes LAF 7750, ratio 4.636:1
Shaft Alternators	2 x 1,960 kW, 380 V / 3 / 50 Hz
Generators	2 x 800 kW CAT 3508B; 2 x 450 kW CAT C18 (380 V / 3 / 50 Hz)
Emergency Generator	1 x 86 kW CAT C4.4, 380 V / 3 / 50 Hz
Fuel-Oil Purifier	Mitsubishi SJ-20G self-cleaning
Lube-Oil Purifier	Mitsubishi SJ-20G self-cleaning

Thrusters & Propulsion	
Component	Specification
Bow Thrusters	2 x Brunvoll FU-63-LTC-1550, 750 kW, 10 t thrust (each)
Stern Thruster	1 x Brunvoll FU-63-LTC-1550, 750 kW, 10 t thrust
Propellers	2 x ϕ 4,200 mm, 4-blade CPP, Cu-Ni-Al, in Kort nozzles
Steering Gear	Ulstein Tenfjord 2 x SR722 electro-hydraulic; 164 kN-m each

Deck & Anchor-Handling Equipment	
Equipment	Rating / Size
Tow / AH Winch	Brattvaag SL300W/BSL300 double-drum waterfall
Winch Pull	300.8 t @ 0–12.8 m min ⁻¹
Winch Pull	177.7 t @ 0–21.7 m min ⁻¹
Winch Pull	119.2 t @ 0–32.4 m min ⁻¹
Wire Capacity	2,000 m x ϕ 76 mm
Brake Holding	400 t
Tugger Winches	2 x Brattvaag, 10 t line pull @ 0–38.5 m min ⁻¹
Wire Storage Reels	2 x Brattvaag, 10 t @ 0–33 m min ⁻¹ ; each stores 1,500 m x ϕ 76 mm
Wire Storage Reels	1 x Brattvaag, 21 t @ 0–32 m min ⁻¹ ; stores 1,500 m x ϕ 76 mm
Shark Jaws	2 x Karmfork; 1 x Triplex H-350-N
Deck Crane	North Pacific 2T3T25M MOD; 1 x 2.5 t @ 25 m
Stern Roller	6.4 m x ϕ 2.4 m; SWL 400 t
Anchors	2 x 2,280 kg stockless anchors
Anchor Chain	2 x 412.5 m x ϕ 38 mm U3 stud-link
Anchor Windlass	Brattvaag hydraulic, 14.6 t @ 0–23 m min ⁻¹
Fendering	Flat-bar doublers 400 mm x 25 mm welded to side shell

Accommodation	
Item	Capacity
Sewage Treatment Plant	Jowa BIO STP 4 (50 persons)
Total Berths	48 (fully air-conditioned)

Performance			
Mode	Speed	MGO Consumption	Lube Oil Consumption
Max Speed	15 kn	33 m ³ d ⁻¹	0.12 m ³ d ⁻¹
Economical Speed	10 kn	18 m ³ d ⁻¹	0.08 m ³ d ⁻¹
Generators	—	1.6 m ³ d ⁻¹	0.024 m ³ d ⁻¹

*subject to actual weather and operating conditions

Tank Capacities & Discharge Rates		
Tank	Capacity	Discharge Rate
Fuel Oil	976 t (90%)	
Fresh Water	270 t (approx)	
Fresh-water Maker	12 t d ⁻¹	

Cargo Deck	
Parameter	Value
Main Deck Dimensions	23.0 m x 12.3 m
Forecastle Deck Dimensions	3.0 m x 14.0 m
Deck Strength	7.5 t m ⁻²

Navigation Equipment	
Instrument	Model / Detail
Radar	2 x Furuno FAR-2117, X-band
Autopilot	Anschütz NP 60 (double rudders)
GPS / Plotter	Simrad Cx44 GPS chart plotter; GPS navigator
Echo Sounder / Speed Log	Fitted (per source)
Navtex / Weather Fax	Receivers fitted
AIS	Fitted
CCTV	GALAZ-C (4 x cameras; 2 x monitors)
Fuel-Trax	NCS FuelTrax GS150-2

Communications Equipment	
Instrument	Model / Detail
GMDSS Console	Furuno RC-1800T-25 (A1/A2/A3)
HF/MF SSB	Furuno FS-2570 (250 W)
Inmarsat-C	2 x Furuno FELCOM-15 (one with SSAS)
VHF/DSC	2 x Furuno FM-8500 (25 W)
Other Systems	Omni-direction TV; PA/Talk-back; common-battery and automatic; telephone; mini-VSAT; ICOM VHF; VHF walkie-talkies

Fire-Fighting & Rescue	
Equipment	Capacity / Rating
Firefighting System	Fifi-1
Fire Pumps	2 x 1,717 m ³ h ⁻¹
Water Monitors	2 x 1,200 m ³ h ⁻¹ @ 123 m head
Foam/Water Monitor	1 x 360 m ³ h ⁻¹ @ 160 m head
Foam Pump	1 x 10 m ³ h ⁻¹
Life Rafts	4 x 25-person
Rescue Boat	1 x 6-person
Oil Dispersant System	2 x UOC 600 spray nozzles (1-1/4" M x 1-1/4" F), 276 L @ 4.14 bar