



# BRITOIL 120 - 121

12,240 BHP | 155 TBP | AHTS

## Name of Vessel

BRITOIL 120 / BRITOIL 121

## Registry / Year of Delivery

Singapore / 2011

## Type

Ocean Going / Anchor Handling /  
Towing Tug

## Classification

ABS + A1, (E), + AMS, + AH, + FiFi 1,  
Towing Vessel, DPS-2

## Dimensions

59.0m x 16.0m x 7.5m

## Draft

6.0m (Designed)

## GRT / NRT / DWT

2375 / 712 / 1481

## Clear Deck Space

23.0M x 12.3M (Main Deck)  
3.0M x 14.0M (Forecastle Deck)

## Deck Strength

Main Deck- 7.5T/m<sup>2</sup>

## Speed

15 knots

## Bollard Pull

155T

## Endurance

11,700 nautical miles at 13 knots

## Accommodation

Fully air conditioned for 48 men

## Lifesaving

To meet SOLAS requirement

## Firefighting

FiFi 1

## Fuel

1080 mt approx

## Fresh Water

270 mt approx

## Freshwater Maker

12 mt/day

## Main Engines & Gearboxes

2 x MaK 9M32C diesel engines  
producing 6120 bhp each at  
600 rpm c/w 2 x Reintjes LAF  
7750 gearboxes, ratio 4.636 :1

## Main Generators

2 x 1960kw shaft alternator,  
380v/3/50Hz,  
2 x 800kW, 380v/3/50Hz, Caterpillar  
Model 3508B diesel driven,  
2 x 450kW, 380v/3/50Hz, Caterpillar  
Model C18 diesel driven,

## Emergency Generator

1 x 86kW, 380v/3/50Hz, Caterpillar  
Model C4.4 diesel driven

## Main Engine Consumption

33,000 litres MGO and 120 litres  
lube oil per 24 hours at full power.  
18,000 litres MGO and 80 litres lube  
oil per 24 hours at economic cruising  
speed of 10 knots

## Generator Consumption

1,600 litres MGO and 24 litres lube  
oil per 24 hours

## Propulsion

2 x 4200mm diameter, 4-bladed  
CPP propeller Cu-Ni-Al bronze in kort  
nozzles

## Steering Gear

Ulstein Tenford electro hydraulic  
steering gear, type: 2 x SR722.  
Torque: 164 knm each

## Fuel Oil Purifiers

Mitsubishi self cleaning fuel oil  
purifier SJ-20G

## Lube Oil Purifiers

Mitsubishi self cleaning lube oil  
purifier SJ-20G

## Fire Monitors

2 fixed fire monitors of 1,200 m<sup>3</sup>/hr  
each at 123m head capacity.  
2 x fire pump of 1717 m<sup>3</sup>/hr each,  
1 fixed foam/water fire monitors of  
360 m<sup>3</sup>/hr at 160m head capacity.  
1 x foam pump of 10 m<sup>3</sup>/hr

## Bow Thruster / Stern Thruster

2 Bow thrusters, Brunvoll 10T thrust  
FU-63-LTC-1550, 750kW,  
1 Stern thruster, Brunvoll 10T thrust  
FU-63-LTC-1550, 750kW

## Crane

North Pacific Crane 2T3T25M MOD -  
2.5T at 25m

## Anchor Windlass

1 x Brattvaag Hydraulic,  
14.6T at 0-23m/min,

## Anchors

2 x 2,280kg stockless anchors

## Anchor Chain

2 x 412.5m x 38mm diameter U3  
steel stud link chain

## Towing/Anchor Winch

Brattvaag double drum waterfall type  
SL300W/BSL300 hydraulic winch with  
remote controls in wheelhouse &  
Brattvaag spooling device  
300.8T pull at 0-12.8m/min  
177.7T pull at 0-21.7m/min  
119.2T pull at 0-32.4m/min  
Wire Capacity:-  
2000m x 76 mm diameter  
Brake holding: 400T

## Tugger Winches

2 x Brattvaag, 10T line pull at  
0-38.5 m/min,

## Shark jaws / Towing pins

1 x Triplex guide pins, type S-200  
2 x Karmfork shark jaws  
1 x Triplex shark jaw, type H-350-N

## Wire Storage Reels

2 x Brattvaag, 10T line pull at  
0-33 m/min, storage reels will contain  
1500m x 76mm diameter  
1 x Brattvaag, 21T line pull at  
0-32 m/min, storage reels will contain  
1500m x 76mm diameter

## Stern Roller

Size: 6.4M, Ø-2.4M  
S.W.L.: 400T

## Fendering

Flat bar doubler plates of 400mm x  
25mm cross section welded to side  
shell

## Liferafts

4 x 25 men

## Rescue Boat

1 x 6 men

## Radar

2 x X-band Radar.  
Furuno Model FAR 2117

## DP System

Converteam DP 2 equipment, c/w:  
2xDP control stations, 2x UPS, 2x  
DGPS, 1x CYSCAN Laser  
Reference System, 3x Gill  
Anemometer, 3x TSS Gyro, 2x MRU,  
etc.

## GMDSS Radio Console

FURUNO model RC-1800T-25,  
A1-2-3 radio package. Complete  
with:  
-1x HF/MF SSB radiotelephone,  
FURUNO model FS-2570 (250W);  
-2x INMARSAT C terminal (one with  
SSAS), FURUNO model FELCOM-15

## VHF

2 x VHF/DSC marine radio telephones.  
FURUNO model FM-8500 (25W)

## Automatic Pilot

1 x Autopilot, Anschuetz NP 60 for  
double rudders.

## Other Navigation and Communication Equipment

EPIRB, Radar Transponders, Navtex  
Receiver, Weather Facsimile, GPS  
Navigator, Echo Sounder, Speed log,  
AIS, Simrad Cx44 GPS Chart Plotter,  
Omni-Direction TV System, P.A./Talk  
Back System, Common Battery  
Powered Telephone, Automatic  
Telephone System, Mini-  
Vsat System, ICOM VHF Radio-  
telephones, VHF Walkie-Talkie, etc.

## CCTV

GALAZ-C, 4 x camera, 2 x monitor

## Joystick

Kongsberg cJoy

## Fuel Trax System

NCS model FuelTrax GS150-2

## Oil Dispersant System

2 sets spray nozzles, type UOC 600,  
1 ¼" (M) x 1 ¼" (F), brass,  
duty 276 liters at 4.14 bar

## Sewage Treatment Plant

Jowa BIO STP 4 for 50 men