### 5150BHP UTILITY / TOWING TUG



#### **Specifications**

**Length:** 50.00 m

**Breadth:** 12.60 m **Depth:** 5.75 m

Designed 4.50 m

Draft:

Deck 5T/M2

Strength:

**GRT / NRT:** 1022 / 306

Deadweight: 700 tons @

4.8m max. draft (approx.)

# **General Specifications**

GENERAL
Port of Singapore
Registry/Flag

Class ABS

Notation +A1, Towing Vessel

(E), +AMS

Built 2013 / Cheoy Lee

Shipyards Ltd, Hongkong

CAPACITIES:

Fuel Tank 620m³ (approx.)

Fresh Water 220m³ (approx.)

Deck Cargo Area 220m² (22m x 10m)

SPEED & BOLLARD PULL

Speed 12 knots @ loaded draft

of 4m

Total Bollard Pull 66.47 MT @ 100%

MCR

ACCOMODATION

Cabins 4x4 -berth cabin = 16men

3x2- berth cabin = 6 men 2x1 - berth cabins = 2

men

**Total Complement** 24 men

MACHINERY & DECK EQUIPMENT

Main Engines Yanmar 6EY26; 2 x 2610

BHP @ 750 RPM; 4 stroke medium speed; Continuous HP @ 5220 **Gearbox** 1x Reduction Gear; Gear ratio

to match engine for appriate

RPM

**Generators** 3 x 350kW output Caterpillar

C18 @ 415V 3Ph 50Hz

**Emergency** 1 x 82kW output Caterpillar **Generator** C4.4 emergency/ harbour gen

set; Starting Battery to be

provided

Propellers 2x 4-bladed @ dia 2650mm

;Berg CPP in fixed nozzles

**Bow Thruster** 4.5 tons thrust controllable

pitch; Electrical- driven

**Fuel Oil Transfer** 

Pump

2x Horizontal Gear pumps @ 10m³/hr @ 20 mwc;

415V/3Ph/50Hz; Cast iron body with alloy steel rotor and

shaft

Bilge & Ballast Pump 1x Horizontal Self Priming

centrifugal pump @ capacity of

70m<sup>3</sup>/hr @ 50mwc. 415V/3Ph/50Hz

FW Pressure Set 1 complete set @ 1 KW motor;

2800 RPM; 415V/3/50HZ. 1x Pressure tank @ 300 litres with maximum working pressure

30-40PSI

**SW Pressure Set** 1 complete set @ 1 KW motor;

2800 RPM; 415V/3/50HZ. 1x Pressure tank @ 300 litres with maximum working pressure

30-40PSI

<sup>\*\*</sup> This vessel specification is given in good faith & assumed to be correct. Details given are without guarantee.

Owners reserved the right to amend the specifications without notification.

# **General Specifications**

Towing/ Anchor 1 x electro-hydraulic **Pressure Set** 1 complete set @ 1 KW motor; waterfall type double drum Handling 2800 RPM; 415V/3/50HZ. 1x Standby Pump towing/anchor. Brake Pressure tank @ 300 litres with holding capacity @ 180 maximum working pressure 30tonnes. Pull/Speed: 75t x 40PSI 8m/min (1st speed) Sludae 1x Electric driven gear pump or Winch Brake holding capacity @ Transfer/Dirty horizontal positive displacement 180 tons type screw pump; 5m<sup>3</sup>/hr @ Oil Pump **Towing Wires** 2 x 1000m 52mm dia wire 45m head rope 1x OWS with capacity 0.5m3/hr Oily Bildge **Tugger Winch** 2x electro-hydraulic, each Separator @ 4kg/cm<sup>2</sup> @ 10tonnes @ 12m/min . SW Cooling 1 unit Each winch completed with Pump 1x rope drum capacity for Air 2x 2 stage compressors with 150m length wire & 1 each capacity 25m<sup>3</sup>/hr FAD x Compressors warping head @ 30m/min 30kg/cm<sup>2</sup>; 415V/3Ph/50Hz **Towing Pins, Shark** 1 set x 200 tons SWL 2x independent electro-hydraulic Steering Gear Jaw steering gear; 8t.m torque Capstans 2 x 5 tons at 15m/min capacity @ 2x 45 deg rudder Stern Roller 1 x 120 tons SWL, 3.5m x angle 1.5m dia 1unit suitable for 24men Sewage Anchor Windlass Electro-hydraulic, cable Treatment Plant capacity lifter @ 6 tons Cargo Oil Pump 1x gear pump; 70m<sup>3</sup>/hr @ 50m Bow winch Bow winch pull of 10 tons; head; 415V/3Ph/50Hz min brake holding 100 tons Lub Oil Purifier 1x Electrical centrifugal oil **Deck Crane** 1 x electro-hydraulic purifier, capacity about knuckle boom crane 2 tons 1200litres/hr @ 9m outreach Fuel Oil Purifier 1x 1200ltrs/hr 1000m x 52mm of FSWR **Towing Drum** Anchors 2x high holding power @ Capacity approxi 970kg. AC-14 totally **Bollards** 10x 10"NB, Sch 80 pipe recessed double bollards. 1x 300NB, Chain Cables 2 off 550m x 38mm dia. Grade sch 80 pipe cruciform 2, high strength steel (stud link) bollard Mooring Lines 4 x 140m long; minimum 10 **Mooring Pipes** 11x mooring pipes tonnes breaking strength 1x electro-hydraulic with

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Deck Reel

drum capacity for 1000m

length of tow 52mm dia wire. Pull of 10 tonnes @ 20m/min local operation

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# **General Specifications**

#### FIRE FIGHTING EQUIPMENTS

Fireman's Outfit 4 complete sets

Fire Blanket 2 units; provided in engine

room and galley

2units Fire Axe

**External Fire**fighting

2x seawater fire pump 1500m3/hr @ 14kg/cm2.2x Fire Monitors 1200m3/hr

(foam/water) remote controlled

CO<sub>2</sub> system 1 unit consisting gas bottles

> c/w quick operatedvalves and auto alarms to be provided for engine room fire and Bow Thruster room fighting

G.S & Fire Pump 1unit

**Emergency Fire** 

1 unit; 25m<sup>3</sup>/hr @ 45mwc

Pump

#### LIFE SAVING EQUIPMENTS

Inflatable Liferafts 4 units

Lifebuoys 8 units: 4x lifebuoys @ 90 feet

> buoyancy line & 4x lifebuoys @ 90 feet buoyancy line and selfigniting electric lights & 2x

smoke signals

27 units Lifejackets

**Pyrotechnics** 12 units; 2x orange smoke

> signals each @ 120 seconds discharge time and waterproof 1x 6men Rescue boat c/w 25HP outboard engine and

Rescue Boat approved gravity type davit to

be provided

1 unit Line Throwing

**Apparatus** 

**Boat Hooks** 2unit @ 8mm handle Work Boat 1x 6men semi-rigid or rigid

work boat @ 40HP outboard

motor to be provided

#### NAVIGATION & COMMUNICATION EQUIPMENT

EQUIFIVIENT	
VHF-Radio Telephone	2units with
	25W remote
	handsets
<b>DSC Watch Keeping Receiver</b>	1unit
Inmarsat "C"	1 unit
Navtex Receiver	1 unit
EPIRB	1 unit
Watch Keeping Receiver Unit	1 unit
X-Band Radars	2 units
Speed Log System	1 unit
Gyro-Compass	1 unit
Gyro-Repeaters	3 units
Auto Pilot	1 unit
6 Inch reflector type Magnetic	1 unit
Compass	
GPS	1 unit
Echo Sounder	1 unit
Walkie Talkie	3 units
Intercom System	1 unit

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