



# SWIBER VALIANT

## 5,000 BHP Anchor Handling Tug

### GENERAL SPECIFICATION

#### General Particulars

Year Built	2006
Flag	Singapore
Class	GL
Notation	✕ 100 A5 Tug

#### Principal Dimensions

Length Overall	40.00m
Breadth Moulded	11.40m
Depth Moulded	4.95m
Design Draft	4.40m
GRT / NRT	495T / 149T

#### Machinery

Main Engine	2 x Yanmar 6EY26 diesel engines 1,840kW each@ 750rpm
Propulsion System	Twin Kaplan 4 blade propeller with fixed kort nozzle
Generating Set	3 x Cummins diesel engines model NTA855-G2 coupled w/ 250 kW Stamford alternator model: HCM434F 415V/3ph/50Hz
Gearbox	2 x YXH-2500L, Ratio 3.03:1
Bow Thruster	HRP 3001TT / 220kW – 3 Tons thrust
Steering Gear	PAL Marine PEH5002-IP (5 t-m Torque)

#### Performance & Consumption

Bollard Pull	60 Tons
Speed	12 Knots
Cruising Range	6,624 N/mile
Fuel Consumption with tow condition	12.72 Tons/day
without tow condition	11.78 Tons/day

#### Deck Machinery

Towing Winch	150 Tons Brake Holding capacity 75 Tons Line Pull @ 15m/min 2 x drum capacity 1,000m x 50mm wire
Anchor Windlass	electrical driven type, MEP System
Anchor	2 x 780kg stockless anchor
Anchor Chain	330m Length, 24mm dia. Grade 2 steel stud link chain
Tugger Winch	2 x 10 Tons single drum hydraulic winch, MEP System line pull @ 15m/min with local control
Towing Pin/ Shark Jaws	1 set 100 Tons hydraulic, MEP System
Capstan	1 x hydraulic vertical type of 10 Tons @ 10m/min, MEP System
Stern Roller	1.6m diameter x 4.5m length

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Tank	Capacity	Discharge Rate
Fuel Oil	450m <sup>3</sup>	36m <sup>3</sup> /hr x 60m head
Fresh Water	80m <sup>3</sup>	36m <sup>3</sup> /hr x 60m head

#### Fire Fighting/ Extinguishing System

- Fire pump coupled to independent diesel engine of capacity 1,200m<sup>3</sup>/hr @ 10 bar.  
 - Two fixed foam/ water manual fire monitors 10,000L/min @ 100m.

#### Accommodation

Berths	2 x 1 man cabin = 2 men
	2 x 2 men cabin = 4 men
	2 x 4 men cabin = <u>8 men</u>
Total	<u>14 men</u>

#### Miscellaneous/ Others

Fresh Water Maker	1 x 2.5 Tons/day
Oily Water Separator	1 x 1.0m <sup>3</sup> /hr @ 0.2Mpa @ 15ppm
Sewage Treatment Plant	1 x 16Pax

#### GMDSS & Navigation Equipment

GMDSS System	1 x Furuno, Felcom 15, Area A1/A2/A3
Magnetic Compass	Daiko Keiki T-150B
Auto Pilot	ComNav Marine Ltd
Radar	1 x Furuno FR-1510 Mark3 1 x Furuno 1932 MARK-2
Echo Sounder	Furuno FE-700
DGPS	Furuno GP-150
Doppler Speed	Furuno DS-800
Weather Fax Receiver	JMC, FX-220
Navtex Receiver	McMurdo, NAV-7
Automatic Identification System	Furuno, FA-1502

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