



GENERAL SPECIFICATION

General Particulars

Year Built	2010
Flag	Singapore
Class	BV
Notation	✱ 100 A5 Tug

Principal Particulars

Length Overall	33.20m
Breadth Moulded	9.76m
Depth Moulded	4.30m
Design Draft	3.50m
GRT /NRT	370T /111T

Machinery

Main Engine	Two (2) units Cummins diesel engines KTA 50-M2 rated 1,600 HP @ 1,800rpm coupled with Reintjes, marine reduction gearbox WAF 665L Ratio 5.95:1
Propulsion System	2 x fixed pitch propellers with kort nozzle
Generating Set	2 x Cummins diesel engine 6BT, 80kW 415V/230V Alternator rated 3ph, 4 wires, 50Hz @ 1,500rpm
Steering Gear	1 set x 3.5 t-m electric hydraulic steering gear system (joystick type + emergency helm)

Performance & Consumption

Bollard Pull	42 Tons
Maximum Speed	12 Knots (Approx)
Economical Speed	8 Knots (Approx)
Fuel Consumption	
At 100% MCR	8.48 Tons/day
At 85% MCR	7.20 Tons/day
with tow condition	5.89 Tons/day (Approx.)
without tow condition	5.51 Tons/day (Approx.)
Deck Strength	3 Ton/m ²
Clear Deck Area	69m ²

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SWIBER CHARLTON

3,200 BHP Towing Tug

GENERAL SPECIFICATION

Deck Machinery

Anchor Windlass	22mm electric hydraulic steel anchor windlass c/w double gypsy and drums.
Anchor	2 x 420kg stockless bower anchors
Towing Winch	1 x 40 Tons with spooling device, emergency quick release c/w 40hp x 2 power pack (drum capacity 42mm x 500m)
Towing Cable	42mm x 500mtrs.
Mooring Bollard	a) Bollards 4 x 8" pipe double bollards b) Mooring 2 x mooring pipes.
Capstan	1 x 3 Tons electro-hydraulic
Stern Roller	3.0 length x 0.762m diameter

Tank Capacity

Fuel Oil	295m ³
Fresh Water	44m ³
Ballast (F.W)	60m ³

Accommodation

Berth	Forecastle Deck	3 x 1 man cabin = 3 men
	Main Deck	1 x 4 men cabin = 4 men
	Below Main Deck	4 x 2 men cabin = <u>8 men</u>
	Total	<u>15 men</u>

Navigation Equipment

Radio Equipment	1 No. JRC 150W MF/HF Synthesized SSB radio-telephone model JSB-196GM-A3
Radar	1 No. JRC IMO type Raster-scan X-band colour JMA-5212-6
GPS Navigator	1 No. Samyung SPR-1400
Echo Sounder	1 No. Samyung SES-2000
EPIRB	1 No. GME Satellite MT-403FF
Satellite Compass	1 No. Furuno SC-50
SART	1 No. ACR 9GHz search and rescue radar transponder model Pathfinder 3
Navtex Receiver	1 No. JRC model NCR-333 c/w 20mtr coaxial cable RG10U/Y
SSAS	JRC SSAS add on kit to upgrade JUE-85 to comply with ISPS requirements

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