



## Technical Details

Year Built	1999
Type	Ocean Going/Anchor Handling Tug
Length Overall	37.0M
Beam Moulded	10.60M
Depth Moulded	4.95M
Designed Draft	4.00M
GRT/NRT	443/133
Clear Deck Space	15Mx10M
Deadweight	330.78 metric tonnes
Speed	13.0 knots
Bollard Pull	60 metric tonnes
Endurance	7.200 nautical miles @12 knots
Accommodation	Fully air conditioned for 14 persons
Lifesaving	To meet SOLAS requirement
Firefighting	To meet SOLAS requirement
Fresh Water	80 cubic metres
Fuel	290 cubic metres
Main Engine	2 x YANMAR Z280 A-EN diesel engines producing 2000 bhp each @ 720 rpm
Gearboxes	c/w 2 x YX 3000 reverse reduction gearboxes of 3.5:1 ratio
Generators	3 x 300 KW, Detroit Diesel 8V-92TA, 380/3/50 diesel driven generators
M. E. Consumption	12,000 litres MDO and 4C litres lube oil per 24hrs @ full power, 7,000 litres MDO and 20 litres lube oil per 24 hours @ economic cruising speed of 10 knots
Generator Consumption	360 litres MDO and 10 litres lube oil per 24 hrs
Propulsion	2 x Solid propellers 2900mm diameter, 4-bladed kaplan type manganese bronze in kort nozzles
Steering Gear	Electro hydraulic
Fuel Oil Purifier	Mitsubishi self cleaning SJ-700 fuel oil purifier
Lube Oil Purifier	Mitsubishi self cleaning SJ-11T Lube Oil purifier
Bow Thruster	Ulstein 45TV, 240KW @ 1500 RPM
Towing Pins & Sharkjaws	Ulstein combination unit
Anchor Windlass	Hydraulic 10 ton @ 12M minute BRATVAA
Anchors	2 x 800kg stockless anchors
IMO Number	9204374
Main engine capacity	2983kw
Place of built	China

Anchor Chain	2 x 220M 25MM U2 steel stud link chain
Towing / Anchor Winch	BRAVTAAG single drum hydraulic winch with remote controls in wheelhouse. 140 tonnes brake capacity. 75 metric tonnes line pull @15 metres per minute. 750M x 52MM wire
Tugger Winch	BRAVTAAG 10 ton line pull @14M per min.
Wire Strong Reels	2X6 ton line pull at 12 M/Min hydraulic wire storage reels of 750M x 52MM SWR capacity. One storage reel will contain 750M x 52MM of spare towing wire, and the other reel will store various size pennant wires.
Fendering	Flat bar doubler plates of 10 x 40mm cross section welded to side shell at bow rubber fenders of approx, 250mm thick section secured vertically.
Cutting Equipment	Two bottles oxygen and one bottle acetylene outting torch
Liferafts	2 x 15 persons
Radar	1 x X-band daylight type radar c/w 6" scanner Furuno FR 1 525MK2 (96nm). 1x Furuno 1932mk2
SSB	Radio synthesized 250W, 24V DC/240V AC with manual cover to emergency supply antenna feeder through insulator & whip & stando insulators C/W DSC & NBDP to meet GMDSS requirements FURUNO FS 1562-25
VHF	2 x VHF/FM multi-channel marine radio-telephones FURUNO model FM 8500
Gyro & Automatic Pilot	1 set fitted. Gyro- Tokimec ES-110 Autopilot FURUNO FAB 330
Weather Facsimile	1 x FURUNO DFAX-207
Other Navigation Equipment	INMARSAT-C, EPIRB, Radar Transponder, P.A.. System c/w Fog Horn Signal, J, Navtex Receiver, GPS Navigator. LRIT, AIS
Fire Monitors	2 fixed foam/water fire monitors of 2800lts/min @ 128 bar. Fire pump of 350cu m/hrs @120 head capacity
Dispersant Booms	2 x 4m dispersant booms fitted
Classification Class Notation	A1, Towing vessel, Fire Fighting capability, AMS for unrestricted service.
Deck Crane	HAP model BK21-3 electrohydraulic Capacity: 9.74M - 1.63 tones SWL