



TOWING & ANCHOR HANDLING

Crane	N/A
Anchor Handling / Towing	ME 75THAHTW
Winch Type	
Tugger Winch	2 x 10T @ 15 m/min
Winch Type	ME 75THAHTW
Electric Hydraulic Windlass	MEP System, 3.5T x 10m/min
Stockless Bower	2 x 780kg (Hall type)
Bow Anchors	PORT & STB
Anchors	Stockless Bower, 2 x 780kg (Hall type)
Anchor Chain	355m x 28mm Dia. Grade 2 Steel
Chain Cables	Stud Link Chain
Stern Towing Winch	Electro-hydraulic Driven c/w Double Drum Controllable at local position & Remote in W/H
Towing Pins	TITAN TT3001 200 Tons
Shark Jaws	1 set Titan
Stern Roller	150 Tons
Hydraulic Capstans	2 x 5T @ 15 m/min
Hydraulic Storage Reels	1 x 6T @ 15 m/min, Drum Capacity 900m 52mm Dia. SWR
Line Pull	75T / 25T x 7 / 21m/min
Wire Rope	IWRC (Independent Wire Rope Core)
Cable	Lifter TITAN TT3001
Rated Pull	200 Tons
Brake Holding	Load 150 tons
Drum Capacity	150 Tons
Brake Capacity	150 Tons
Winch Wire Capacity	1000 Meters x 52 mm
Upper / Lower Drum Cap (Tow / AH)	150 Tons
Stall Pull	57 tons
Rope Reels	Spoiled Drum
Reefer Points	6 SOCKET 415V, 1 SOCKET 220V

PERFORMANCE

Max Speed	12 Knots	12 m ³ - 24 hrs
Service Speed	8 Knots	8 m ³ - 24 hrs
Economic Speed	5 Knots	5.5 m ³ - 24 hrs

CAPACITY

Fuel Oil	480 m ³	126,802 USG
Fresh Water	70 m ³	18,492 USG
Ballast Water	40 m ³	10,567 USG
Lube Oil	0.48 m ³	127 USG
Dirty Oil	17.1 m ³	4,521 USG
Hydraulic Oil	0.24 m ³	63 USG
Bilge Holding Sewage Tank	2.5 m ³	660 USG

DOCUMENTATION

Classification	Bureau Veritas (BV)
Year Built	2009
Keel Laid Year	2008
Place of Build	China
Vessel Type / Notation	Tug / ⚓ Hull ⚓ Mach Unrestricted Navigation
Port of Registry	Singapore
Flag	Singapore
Official No.	395250
Call Sign	9V8064
IMO No.	9568940

MAIN PARTICULARS

Length Overall	42.10 m	138.12 ft
Length BP	36.7 m	120.41 ft
Breadth Moulded	11.20 m	36.75 ft
Depth Moulded	4.90 m	16.08 ft
Draft (max)	4.50 m	14.76 ft
Draft (operational)	4.10 m	13.45 ft
Bollard Pull	57 Tons	
GRT / NT	595 Tons / 178 Tons	
Lightship Weight	721 Tons	
Deadweight	525 Tons	
Summer Freeboard	4.0 m	

CARGO DECK

Deck Strength	5 T / m ²
Deck Cargo Tonnage	525 Tons (subject to vessel stability and consumables)
Clear Deck Area	132 m ² 1420.82 ft ²
Deck Length	16 m 52.49 ft
Deck Width	8 m 26.25 ft

MACHINERY

Type / Model of Main Engine	Cummins QSK60M
Auxiliary Engines	Cummins
Engines Max RPM	1800 rpm
Total Horsepower (BHP)	2 x 2200 BHP
Types of Generators	NTA855D(M)
Capacity of Generator	200 KW/1500 RPM
No. of Generator required for normal operation	1 unit
Emergency Generator Capacity	Cummins 6BT15.9-GM83 83 kw
Model of Bow Thruster	Cummins
Type / Capacity of Bow Thruster	NTA 855 M/ 201 KW/1800 RPM HRP Asia 2001TT
Propellers	FPP
Main Propulsion Type	GBIT 4064 A200
Propulsion Shaft	
Gearbox	Twindisc, MGN-1727V, Ratio: 7.50: 1
Main Alternator	Stamford HCM434D1
Rudders	Independent
Steering Gear	Best marine ISG 30 2E HP

DELIVERY RATES

Fuel Oil	1 x 50 m ³ /hr @ 60 m Head
Fresh Water	1 x 60 m ³ /hr @ 42 m Head
Ballast Water	1 x 60 m ³ /hr @ 42 m Head

*Particulars are believed to be correct but not guaranteed. All figures given are approximate only. Owners reserve the right to amend the specifications without notification.

ACCOMMODATIONS

Total Accommodation	18 persons
Total No. of Passenger (For Charterer's Use)	2 persons
Single Rooms	2 x 1
Double Rooms	2 x 4
Others	4 x 2
Hospital	One (1)

*All cabins are fully air-conditioned, complying with ILO 92, IMO Resolution A468 (XII)

SAFETY EQUIPMENT

Inflatable Life Rafts	2 x 25 Person Type
Fast Rescue Boat	1 x 6 men
FRC Davit	c/w 50 BHP outboard engine davit launch type
Life Buoys	Eight (8) Total 4 with self-igniting light & 30m buoyancy line 2 with smoke signal & 30m buoyancy line
Pyrotechnics	1 x line throwing apparatus 12 x parachute distress rocket 6 x orange smoke signal
Life Jackets	27 Adult Size
Work Vest	12 X VSG – MODULO 170
Scrambling Nets	2 X Manila Rope
Emergency Fire Pump	1 x Engine Driven
Portable Fire Extinguishers	43 x Eversafe
Fire Station	7 X Main Deck & ER
Oil Dispersant	1 x Nos.
Searchlights	2 at Bridge
Night Vision Equipment	1 x Bostron
Fire Fighting	1 x 1200m ³ /hr @ 14 Bar PTO from M/E

ELECTRONICS & CONTROLS

Radars	1 x Furuno (FR-1510 MK3)
Radar 2	1 x ICOM (MR-1010)
Gyro Compass	1 x Anschuetz
Magnetic Compass	1 x Furuno
DGPS	1 x Furuno
GPS	1 x Furuno GP-150
AIS	1 x Furuno
Echo Sounder	1 x Furuno
Doppler Current Meter	1 x Furuno DS-80
Auto Pilot	1 X Simrad (AP70MK2)
SSB	1 X Furuno
VHF	2 x Furuno
Two-way Radiotelephone	3 x ACR
NAVTEX Receiver	1 x Furuno
GMDSS	1 x Furuno
Handheld VHF	3 x Standard Horizon
INMARSAT C	1 x Furuno
SAT - EPIRB	1 x Macmurdo
SART	2 x Macmurdo
Speed Log	1 x Furuno
Public Address System	1 Ship Set
ECDIS	1 x Xinuo (HM-5818)
Gyrocompass	1 x ANSCHUTZ – STD 22
PA System	1 x Kexun
Anemometer	1 x Navman
Weather Fax	1 x Furuno
Wind Indicator	1 x Simrad
Walkie Talkie	4 x Ship Sets
Emergency Call System	1 Ship Set
Battery less Telephone	1 Ship Set

OTHERS

Sewage Treatment Plant	1 unit (cap: 1 tons)
Oily Bilge Water Separator	1 unit (cap: 0.5m /hr) @ 15 ppm

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