

PRINCIPAL PARTICULARS

Length Overall	36.0 meter
Breadth Moulded	10.8 meter
Depth Moulded	5.40 meter
Designed Draft	3.75 meter
GRT	499 Tons
Net Tonnage	149 Tons
Class	Lloyds Register of Shipping
Notation / Classification	LR + 100A1 + LMC Unrestricted Tug
Date and Place Built	2004, China
Draft fully loaded	Fore 3.75 meter AFT 3.75 meter

PERFORMANCE

Maximum Speed	12 knots
Economical Speed	11 knots
Type of Fuel	MOD
Static Bollard Pull (ahead)	50 tonnes minimum
Static Bollard Pull (astern)	40 tonnes minimum
Fuel Consumption	Maximum Speed at 100% MCR 224 USG/hr
&	Service Speed at CSR 203 USG per hour
Endurance	In port with one Generator 5 USG per hour Endurance/service speed CSR 1500 miles

PROPULSION SYSTEM

Main Engines	Yanmar 6N280-EN X 2 Sets 4700 (Total P.S)
Main Generators	Yanmar 6HAL2-TN X 2Sets
Propulsion	2 x Fixed Pitch Propellor
Bow Thruster	(1) Jastram/ BU10F /Sr.# 8756/1 700mm dia fixed pitch/ 13 KN@843RPM Gear Ratio 1.75:1

PUMPS

Fuel Oil Transfer Pump	1 Nos.
Fire / G.S / Bilge & Ballast Pumps	2 Nos.
Dirty Oil Transfer Pump	1 Nos.
Lub. Oil & Eng. Cool Pumps	As per manufacturer 's recommendation
Standby pumps	As per manufacturer and class requirement

Deck Equipment

Anchor	2 x 780 kg
Anchor windlass	1 x 2.5 tonnes Electric power pack

ACCOMMODATION

Berth	11
All cabins are fully airconditioned	

RADIO & NAVIGATION EQUIPMENT

DGPS	1 Set
SSB Radio	Nil
VHF / DSC Radiotelephone	1 x 25w output
VHF / DSC Watch Receiver	1 set
Navtex Receiver	1 set
EPIRB	1 set
SART	1 set
VHF / FM 2-way Radio	2 Nos.
Clear View Screen	2 Sets
Radar	1 set
Echo Sounder	1 set
Gyrocompass	Nil
Autopilot	Nil
Magnetic Compass	1 set
Upto Date Deviation Curve	Yes
Satellite Compass	One (1) 4.5"

FIRE FIGHTING & LIFE SAVING EQUIPMENT

Fire Pump for External Fire Fighting	1 x 1200m ³ /hr
Emergency Fire Pump	1 x 25m ³ /h at 30m
CO2 System	Yes
Foam Chemical Tank	Yes
Fixed Fire Monitors	2 sets
Foam Transfer Pump	Yes
<u>Alarms & emergency</u>	
Fire monitoring Panel	One (1)
Smoke & Heat Detectors	One (1)
Fire & General Alarm System -	Yes

CARGO CAPACITIES

Fuel Oil	26420 USG
Fresh Water	7926 USG
Ballast Water Tank	Nil
Cold Store	5 cub. Meter
Frozen Store	5 cub. Meter
Dry Provision Store	6 cub. Meter
Allowable Deck Cargo (minimum)	5 tonnes
Clear Deck Space (minimum)	302 m ²
Total Deadweight (all told)	150 tonnes (Approx)

MISCELLANEOUS

Search Lights	1 set (1.0kw)
Cargo Light for Aft Deck	Yes
Public Addressor for Internal Communication	Yes
Motor Siren or Air Horn	Yes
Oily Water Seperator	1 No.
Sewage Treatment Plant	1 No.
Fuel Treatment Plant	1 No.
Marine Growth Prevention System	Yes
Life Raft	2 sets