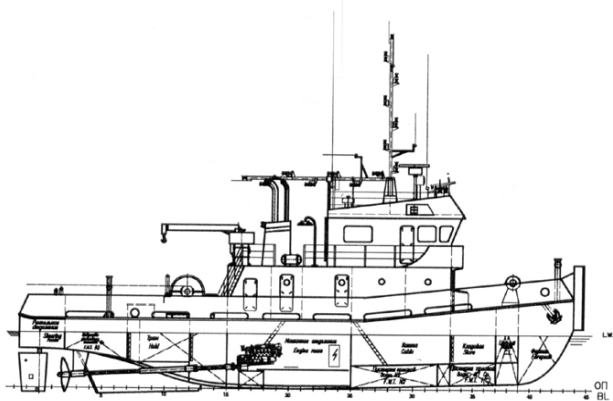




MORTEST Co., Ltd.

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SPECIFICATION OUTLINE **1,200BHP TWIN SCREW OCEAN GOING TUG**

Vessel Developer	MORTEST CO., Ltd.
Shipyard	SONG CAM Shipyard
Vessel Notation	ESIL, TOBOL
Classification Notation	RS KM ★ 1TUG BOAT
Navigation Areas	Unrestricted Navigation Area (International Navigation)
Flag	Kazakhstan
Year Built	2006

Dimensions & Capacities

Length O.A.	24.50 M
Beam MLD.	7.60 M
Depth MLD.	3.20 M
Design Draft	2.20 M
Max. Draft	2.50 M
GRT	149.00
Fuel Oil Cap.	~55.00 MT
Fresh Water Cap.	~25.00 MT

Main Towing Equip. & Deck Machinery

Single Drum hydraulic towing winch set

- 10.5 Bollard pull

Main Steel Towing Hawser:

- ϕ 40mm x 300m Length x 1 set

Control station:

- 1. winch local control

Bow towing bitt: 50MT SWL

Aft towing bitt: 50MT SWL

Electric Windlass : DMA-20.5

Anchor & Anchor Chain:

- Hall's Anchor 235kg x 2

- Anchor chain: ϕ 19mm x 220M

Main Machinery & Propulsion Unit

Marine Main Engine

- Model	Daewoo V180TIH
- Power	600 BHP@1,800rpm
- Maker	Doosan Infracore – S. Korea
- Control station	Main / Backsight Control station
- Quantity	Two Sets

Marine Gearbox

- Model	DMT400HL
- Maker	DONG I – S. Korea
- Gear Ratio	4.95: 1
- Quantity	Two Sets

Marine Gen. Sets

- Model	Daewoo PNJ AD136
- Power	68KW/3 ϕ /380V/50HZ
- Maker	Doosan Infracore – S. Korea
- Quantity	Two Sets

Propeller

Fixed pitch screws
Two sets

- Quantity

Electro-hydraulic Steering gear

- Model	SPC-05T
- Maker	SA Mart
- Quantity	One Set (with emergency spare system)

Oily Water Separator

- Quantity	YSCZ-0.25DM One set
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Fuel Type

AL MAB 103

Main Life Saving & FiFi Equip.

- In compliance with "SOLAS" Merchant Shipping Ordinances regarding Life-saving & FIFI requirement
- As per RS Rules CO₂ Express fire smothering system (*)
- Portable Fire Extinguisher: 11 x 9kg foam; 3 x 5 kg CO₂; 5 x 8kg Dry Powder; 1x 50 L Foam Fire Extinguisher (cart-pushing); 1 set fireman outfit, 2 x 10 ps inflatable liferaft, 2 x Marine line-throwing rope, etc.
- Electric Fifi General Pump rate : 36cbm/hr
- Spare Electric Fifi Pump rate : 36cbm/hr
- Emergency Motor Fifi Pump rate : 100cbm/hr

Main Radio & Nav. Equip.

GMDSS	TT3020CImmC
SSB	SRG-1150DN
VHF	STR-6000A
GPS	SPR-1400
Radar	BM E ATA 181/4
Radar Responder	S-4
NavTex Receiver	SNX-300
Electronic Whistle	ETD 100/350
Mag. Reflector	Sperry Jupiter
Compass	
Panel Type	LCT-165
Compass	
SoundPower Tel. Sys.	SNP-200
Echo Sounder	SES-2000
EPIRB	E3
2-way Walkie Talkie	STV-160

Air conditioning (split type cooling) system

Wheel House, Dining Room,
Captain's Cabin, Crew's Cabins,
Chief Engineer's Cabin

Accommodation & Galley

2 x Senior Officer Cabin
2 x 3 Berth Crew Cabin
Total Accommodation: 8
Horizontal Freezer (L): 450
Refrigerator volume 3cu.m
Vertical Refrigerator (L): 350
Flameless Electric Stove (Incl. oven)