

Vessel Specifications

General

Type	Shallow draft tug
Flag	Kazakh
Class	DNV +1A1 TUG, ICE-1B, SF, EO,+DK
Year of build	2005
Place of build	President Marine PTE., Singapore
Port of registry	Aktau
IMO number	9358333

Dimensions

Length overall	39.59 m
Beam	12.2 m
Depth	4.0 m
Summer load draft	2.5 m
Light ship draft (forward)	1.35 m
Gross tonnage	537 t
Net tonnage	162 t
Deadweight	494.3 t

Capacities

Fuel oil (100%)	406.4 m ³
Ballast water (100%)	69.7 m ³
Potable water (100%)	61.1 m ³
Seawage (100%)	68.2 m ³
Deck cargo	TBA
Deck strength	5.0 m ²
Deck area	100 m ²

Deck machinery

Tugger winches	1 x 2.5 t SWL
Barge winches	2 x 20 t line pull, 40 t brake
Crane	4.0 t SWL @ 10 m

Propulsion

Main engines	2 x CAT 3512B
Power	1878 kw
Propellers	2
Rudders	4
Design bollard pull	25 t
Bow thrusters	90 kw
Stern thrusters	Not fitted

Auxiliaries

Diesel generator sets	2 x Caterpillar C9 269 kVA
Emergency generator set	1 x Caterpillar 3053 75 kVA
Sewage treatment unit	Hamworthy

Speed and consumption

Maximum speed	11.5 knots
Cruising speed	10 knots
Economical speed	8 knots
Consumption (towing barge)	10 m ³

Towing and anchor handling

Main winch	20 t line pull, 50 t brake
AH drum capacity	75 m x 32 mm
Towing drum capacity	600 m x 32 mm
Stern roller	Yes

Communication equipment

Call sign	UOI
MF transceiver	1 x Furuno FS-1570
VHF (c/w DSC) radiotelephone	2 x Furuno FM-500
Satcom	Fleet 55
GMDSS	Areas A1; A2; A3 Compliant

Navigation equipment

Joystick / DP	Not applicable
Radar # 1	Furuno FAR - 2117
Radar # 2	Furuno FAR - 2117
Autopilot	Anschutz
Echo sounder	Furuno FE-700
Navtex	Furuno NX-500
Direction finder	Not applicable
Gyro compass	Anschutz Standard 22
Log	Furuno DS-80
DGPS	Not fitted
GPS	Furuno GP-90

Fixed fire fighting appliances

CO ² Smothering System	Yes
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Life saving appliances

Liferafts	2 x 20 man
Lifejackets	20
Immersion Suits	17
Pyrotechnics	12 x parachute rockets
SOLAS	Applicable
MARPOL	Applicable

Accommodation

Total POB	7 crew; 8 day passengers
Cabins	1 x 1 man
	1 x 2 men
	2 x 3 men

Workboats / rescue equipment

FRC	Not fitted
Workboat	1 x rigid inflatable
Davit	Not fitted



