



## PRINCIPAL CHARACTERISTICS

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No. of the last of	General Name Type Classification	MANGYSTAU -1 Shallow draught icebreaking tug / Offshore Standby Vessel RINA, C + Offshore support vessel, Tug boat/ Fire fighting ship1-water spraying, ICEBREAKER with icebreaking capability up to 0.6 m level ice thickness; Unrestricted navigation	Safety equipment Emergency Response & Rescue vessel capability Fi-Fi-1 system Water curtain system Fast rescue crafts Rescue basket	Category "B" (300 survivors) 2 monitors x 1200 m <sup>3</sup> /hr 2 x 15 persons 1
	Flag Year of built Place of built	*+ AUT-UMS, ICE CLASS IA SUPER Russian Federation 2010 STX Offshore Braila	Accommodation Crew, berths Survivors, berths Survivors, seats Hospital, beds	22 20 50 1
	Length OA, m Beam, m Draft max, m Clear deck area, m <sup>2</sup> GRT / NRT	66.3 16.4 3.0 335 1828 / 548	Temporary refuge Filtered air breathing system capacity, hours Capacity, people Min stored breathing air	4 322
	Performance Bollard pull, t Speed, kn Deadweight, mt Endurance, days	52.00 14.00 729 20	capacity, hours Capacity, people  Deck equipment Deckcrane Provision crane	1 22 HMC 1400 LK; 5,0 t @ 15.00 m HMC 886 LK: 1.5 t @ 8.00 m
	Propulsion plant Type Main propulsion units Power, kW Bow thrusters	Diesel-electric 3 x Azimuth Thrusters Schottel SRP2020, FPP 3 x 1600 2 x Pumjets Schottel PJ550	Towing winch Pulling power @ 1st layer Towing wire	Adria winch 50 t Length - 600 m, diameter - 48 mm
	Power, kW Main generator sets Maker / Type Power, kW Emergency diesel generator Power, kW	2 x 550  4 x Caterpillar 3512C  4 x 1780  Caterpillar C 9  238	Tanks capacities Fuel oil tanks, m³ Fresh water tanks, m³ Zero dumping tank, m³ Sewage water tanks, m³ Mud tanks, m³ Oily water, m³	411,4 197,2 80,5 267,5 149,1 150,3

Please note: These particulars are believed to be correct, but without guarantee, and they must not be used as basis for Charter Parties or contracts without explicit written authority.





## PRINCIPAL CHARACTERISTICS

generator Power, kW www.coc.kz

General			
Name	MANGYSTAU - 2,3	Safety equipment	
Type	Shallow draught icebreaking tug / Offshore	Emergency Response &	Osto see: "D" (000 see: incres)
01	Standby Vessel	Rescue vessel capability	Category "B" (300 survivors)
Classification	BV, I ■ HULL ■ MACH Tug; Fire fighting ship 1; Special service: North Caspian Sea Icebreaker	Fi-Fi-1 system Water curtain system	2 monitors x 1200 m <sup>3</sup> /hr
	with icebreaking capability up to 0.6m level ice	Fast rescue crafts	2 x 15 persons
	thickness:	Rescue basket	2 x 13 persons 1
	Water spraying, Unrestricted navigation	riesede basket	1
	AUT-UMS; ICE CLASS 1A* SUPER"	Accommodation	
Flag	Republic of Kazakhstan	Crew, berths	22
Year of built	2010-2011	Survivors, berths	20
Place of built	STX Offshore Braila	Survivors, seats	50
- 100		Hospital, beds	1
Dimensions	00.0		
Length OA, m Beam, m	66.3 16.4	Temporary refuge	
Draft max. m	3.0	Filtered air breathing system	
Clear deck area, m <sup>2</sup>	210	capacity, hours	4
GRT / NRT	1828 / 548	Capacity, people	322
	1020 / 040	Min stored breathing air	4
Performance		capacity, hours	1 22
Bollard pull, t	52.00	Capacity, people	22
Speed, kn	14.00	Deck equipment	<b>A</b>
Deadweight, mt Endurance, days	727 20	Deckcrane	HMC 1400 LK; 5,0 t @ 15.00 m
Endurance, days	20	Provision crane	HMC 886 LK; 1,5 t @ 8.00 m
Propulsion plant		Towing winch	Adria winch
Type	Diesel-electric	Pulling power @ 1st layer	50 t
Main propulsion units	3 x Azimuth Thrusters Schottel SRP2020, FPP	Towing wire	Length - 600 m, diameter - 48 mm
Power, kW	3 x 1600		711111111111111111111111111111111111111
Bow thrusters	2 x Pumjets Schottel RJ550	Tanks capacities	· /
Power, kW	2 x 550	Fuel oil tanks, m <sup>3</sup>	601,7
Main generator sets Maker / Type	4 x Caterpillar 3512C	Fresh water tanks, m <sup>3</sup>	99,6
Power, kW	4 x 1780	Zero dumping tank, m <sup>3</sup>	64,8
Emergency diesel	4 × 17 00	Sewage water tanks, m <sup>3</sup>	97,3
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Caterpillar C 9





## PRINCIPAL CHARACTERISTICS

Emergency diesel generator Power, kW www.coc.kz

	General			
	Name	MANGYSTAU - 4.5	Safety equipment	
	Type	Shallow draught icebreaking tug / Offshore	Emergency Response &	
		Standby Vessel	Rescue vessel capability	Category "B" (300 survivors)
	Classification	BV, I ■ HULL ■ MACH Tug; Fire fighting ship 1;	Fi-Fi-1 system	2 monitors x 1200 m <sup>3</sup> /hr
		Special service: North Caspian Sea Icebreaker	Water curtain system	
		with icebreaking capability up to 0.6m level ice	Fast rescue crafts	2 x 15 persons
		thickness;	Rescue basket	1
		Water spraying, Unrestricted navigation		
		AUT-UMS; ICE CLASS 1A* SUPER"	Accommodation	00
	Flag	Republic of Kazakhstan	Crew, berths	22
	Year of built	2011 STX Offshore Braila	Survivors, berths	20 50
	Place of built	STX Offshore Braffa	Survivors, seats Hospital, beds	50
	Dimensions		nospital, beus	I
	Length OA, m	66.3	Temporary refuge	
	Beam, m	16.4	Filtered air breathing system	
	Draft max, m	3.0	capacity, hours	4
	Clear deck area, m <sup>2</sup>	210	Capacity, people	322
	GRT / NRT	1828 / 548	Min stored breathing air	
	Performance		capacity, hours	2
	Bollard pull, t	52.00	Capacity, people	68
	Speed, kn	14.00		
	Deadweight, mt	650	Deck equipment	_()
	Endurance, days	20	Deckcrane	HMC 1400 LK; 5,0 t @ 15.00 m
	Propulsion plant		Provision crane	HMC 886 LK; 1,5 t @ 8.00 m
	Type	Diesel-electric	Towing winch	Adria winch
	Main propulsion units	3 x Azimuth Thrusters Schottel SRP2020, FPP	Pulling power @ 1st layer	50 t
	Power, kW	3 x 1600	Towing wire	Length - 600 m, diameter - 48 mm
	Bow thrusters	2 x Pumjets Schottel RJ550	Tanks capacities	With the state of
	Power, kW	2 x 550	Fuel oil tanks, m <sup>3</sup>	601,7
	Main generator sets		Fresh water tanks, m <sup>3</sup>	99.6
	Maker / Type	4 x Caterpillar 3512C	Zero dumping tank, m <sup>3</sup>	64.8
	Power, kW	4 x 1780	Sewage water tanks m <sup>3</sup>	97.3

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