



**Almaz, Anchor Handling Tug Supply Vessel (AHTS)
Specifications**



General information

Name	Almaz
Operator	JSC MAGE
Type	supply vessel (SV), anchor handling tug vessel
Port of registry	Bolshoy Port of St. Petersburg
Flag	Russia
Class	KM * Ice1 AUT1 FF2WS DYNPOS-2 Supply vessel Tug Oil Recovery Ship
Class No.	960847
Call sign	UBWQ4
IMO	9150224
Year of build/conversion	1997
Shipyard	Aukra Yard Norway
Length overall	74.90 m
Beam	18 m
Draft at full load	6.6 m
Tonnage	2,989 t
Cruising speed / max.	10 /15 knots
Transit endurance (13 knots)	32 days
Bollard pull	155t
Accommodation	18 cabins, 35 beds
Cargo deck	Area: 570 m ² Cargo weight: 1,300t Max deck load: 10/5t/m ²
Tank capacity	Ballast water: 1,430 m ³ Drill water: 725 m ³ Drinking water: 713 m ³ Dry cargo: 284 m ³ Drilling mud: 416 m ³ Liquid mud tank: 302 m ³ Methanol: 121 m ³
Dynamic positioning system	DP-2 Kongsberg maritime
Main engines	2 ea. Caterpillar 3616 DITA, 5,420 kW
Shaft generators	2 ea. AVK, 2,400 kW

Auxiliary diesel generators	Caterpillar 3406 DIT, 2 ea. 317 kVA 440 V, 60 Hz
Emergency diesel generator	Caterpillar 3404B DIT, 120 kW
Propulsion system	2 ea. CPP in a Kort nozzle Ulstein SLS600-1050
Steering wheel	2 ea. Ulstein High Lift rudder
Steering gear	2 ea. Tenfjord
Forward thruster	1 ea. Ulstein electrical 883 kW, tunnel type
Azimuth thruster	1 ea. Ulstein VROS 180 with diesel Caterpillar 3512 BTA, 1096 kW
Aft thruster	1 ea. Ulstein electrical 883kW, tunnel type
Запас топлива	720 t
Fuel consumption	Flank speed 15 knots: 38 t/day Full speed 13 knots: 22 t/day Cruising speed 10 knots: 12 t/day DP operation: approx. 4.5 t/day
Deck machinery	Crane ABAS cap. 10 t radius 15 m Crane ABAS cap. 3 t radius 15 m Mooring capstan 2 ea. x 50 t Windlass Brattvaag B8/SL12 Auxiliary winches 2 ea. x 12 t Drum capacity 100m cable ø 19mm
Tow winch	1 ea. winch Brattvaag 300 t SL270WX/SBSL300WX, including: - 1 ea. tow drum 1,560 m ø 76mm - 2 ea. anchor drums 1,390 m ø 76mm
Tow pin	4 ea. ø350mm
Navigation aids	
Autopilot	Anschutz Pilotstar-D
Global navigation and positioning system (GPS)	1 x Furuno GPS GP-150 1x GPS type Garmin 120
Radar 1	ARPA radar type Furuno FAR-2837 BB (10 cm)
Radar 2	ARPA radar type Furuno FAR-2117 BB

(3 cm)

Gyrocompass 1	Simrad GC 80
Gyrocompass 2	Anschutz STD 22
Pitometer log	JRC J LN
Navigation echo sounder	Skipper 101 GDS Color
Electronic chart system	Max Sea
Weather fax	Furuno Fax A3

Shipboard communications

GMDSS	areas A1, A2, A3
MF, HF	Sailor 6301 MF/HF DSC, 150 W
Fixed UHF radio	1x VHF Simplex type Sailor RT-2048 1x VHF Duplex type Sailor RT-6222, inc. DSC 1x VHF Simplex type Sailor RT-4722 1x VHF Dupl. DSC Digital; Sailor RT-2042
Portable UHF radio	5 x UHF Motorola
V-Sat	+7 8152 400 580 ext. 285 Master +7 8152 400 580 ext. 289 Bridge
IRIDIUM (redundant)	IRIDIUM Open Port
E-mail	almaz@mage.ru

Safety facilities

Life raft	inflatable life rafts 6 ea. VIKING 25 DKF
Work boat	1 ea. Mob Boat type GTC 700
Rescue boat	1 ea. Mob Boat type 700 FRB
Immersion suits	Helly Hansen Survival Suit E307 - 39 ea.
Life jackets	Sea master 83 - 39 ea.
Life buoy	10 ea.
Emergency radio stations	3 x Sailor SP-3520 (GMDSS)
Emergency beacons (EPIRB)	1 x EPIRB Jotron Tron 45SX. 1 x EPIRB Jotron Tron 60 GPS
Search and rescue transponders	2 x JRC JQX-30A
Fire pumps	1 x 250 m ³ /h, 1 x 155 m ³ /h, 1 x 51 m ³ /h, 1 x 27 m ³ /h
Fire-proof suits and emergency escape	8 sets

breathing devices

Fire fighting systems 1 ea. CO₂,
1 ea. water sprinkling system

Fire suppression systems for dangerous 1 ea. foam monitor
goods