



TECHNICAL SPECIFICATION “SMIT SAKHALIN”

Anchor Handling Tug Supply Vessel, Icebreaker

Class: LR / RMRS
Flag: Russian Federation
Port of Registry: Kholmsk
Call Sign: UFXQ
IMO number: 8127830
MMSI number: 273438220
Reg. number: 825240
Built: Vancouver
Shipyard: Shipyards Co. Ltd.
Year: June 11, 1983



Class Notation: LR: * 100 A1 Icebreaker, Offshore Supply Vessel, Occasional Oil Recovery Duties, Ice Class 1A Super *LMC
 RMRS: KM ★ UL Tug/Supply Vessel

MEASUREMENTS	
Length Overall	78.85 m
Length BP	75.0 m
Breadth Moulded	17.22 m
Depth Moulded	9.70 m
Draft (Max)	8.15 m
Freeboard, min	1.55 m
GRT/NRT	3143 / 911.91
Deadweight	1940
Lightship	3,981.24 tons

PERFORMANCE	
Maximum Speed	13.5 knots/ 35t/day
Economical Speed	10.0 Knots / 12t/day
Port Usage	2.4 t/day
Type of Fuel	MGO
Bollard Pull	Max 165 tons

PROPULSION SYSTEM	
Main Engine	4 "Wartsila" VASA 8R32 4 x 3,725 B.H.P Total: 14,900 B.H.P
Bow Thruster	1 Mare JT 1300-1B 1200 H.P
Stern Thruster	1 KAMEWA 800 H.P.
Steering Gear	1 KAMEWA 800 H.P.
Propulsion	Twin screw LIPS C.P. Propellers in Kort Nozzles
Rudders	2

MISCELLANEOUS	
Liferafts	4xPSN-20MK (20 persons) SOLAS A PACK 2xPSN-10MK (10 persons) SOLAS A PACK
Rescue boat	1 x Inflated rescue boat «Favorit» F-420, 6 men FRDC 1 x MP1000 WJ, 30 men FRC 1 x SEABEAR 23 MKII, 10 men
Crew	16

CARGO CAPACITIES	
Deck Cargo	1000 tons
Deck Strength	10 t x 1 m3
Clear Deck Area	L 35.6 m x B 12.7 m
Fuel Oil	1500 m3
Fresh Water	143 m3
Ballast / Drill Water	1096.6 m3/1018 m3
Freezer/Chiller	25,5m3
Rig Chain Locker	2 x 38.4 m3
Cement Tank / Barite	4 tanks x 35.5 m3
Foam/Detergent	0.43 m3 / --
ORO	

PUMPS	
Fuel Oil	1 x 80 m3/hr at 50 m head
Fresh Water	1 x 80 m3/hr at 53 m head
SWB / Drill Water	-- / 1 x 80 m3/hr at 53 m head
GS / Fire pump	120 m3 / 60 m3
Bilge / Ballast	60 m3 / 80 m3
Bulk Cement / Barite	Compressor ratings 1 x Ingersoll Rand 500L 15 m3/hr at 5 Bar
ORO	

ACCOMODATION	
Cabins	Officers 6 x 1 single berth Crew 16 x 1 single berth Passengers 6 x 2 Single Berth
Total bunks	33 Berths
Hospital	1 x 1 berth cabin
All cabins fully air-conditioned & all w/c attached toilet	Yes

Oily Water separator	TURBULO - SEPARATOR TEF 2,5 S
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Sewage Treatment Plant	RF - 750 -M Vc 3,48 m3
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DECK EQUIPMENT	
Anchor Windlass	2 x Burrard model H7V hydraulic
Stern Roller	Length 4 m x dia. 2.5 m
Karm Forks	2 x 150 tons
Tow Pins	2
Bow Anchors	3 BALDT 2.85t (1 spare)
Chains	2 x 46 mm dia. 247.5 m each
Capstan	2 x 10 t (Aft)
Tugger Winch	2 x 12 t
Drum Capacity	Towing Winch - Double drum capacity 915 m 73 mm(2 7/8" dia. AH Winch - Double drum capacity 395 m. 73 mm(2 7/8" dia.)
Deck Crane	2 x Hydralift 5.0 t S.W.L. Max. radius 10 m Min. rad 2.7 m
Towing/AH Winch	2 x 76 mm x 1000 m / 2 x 42 mm x 600 m
Line Pull	150 tons
Brake Capacity	350 tons

FIRE-FIGHTING AND ANTI-POLLUTION EQUIPMENT	
EXTERNAL	
FiFi System	2XFishon/Nijhuis ME driven 1200m ³ /h 14 bar Monitors: 2XAlco EL380A remote control with jet pipe 20,000 ltr/ min 13 bar
Fire Pump	1 x Multi-Stage GSP 120 m ³ at 100 mwc
Range	Water: 56 m at 45° elev. Foam: 36 m at 45° elev.
Foam Pump	1 x «Oberdorfer» Model 9000 B-5-6 32L/M at 10.3 bar
Foam Storage	1 Tank 0.45 m ³ (100 gals)

RADIO & NAVIGATION EQUIPMENT	
GMDSS	SKANTI
SSB	1 x "Skanti" 400w SSB GMDSS Transceiver
Inmarsat C	Skanti 427321569
VHF Radio	2 x "King" 7000 Marine ; 2 x "Spillsbury" FMX-95S Marine ; 2 x "Scanti" VHF 3000 GMDSS
Navtex Receiver	1 x NT-900
SART	2 x Tron Star
EPIRB	Tron 40 S
Portable	3 x "Salvita 6"/"Navico" GMDSS; 2 x "Motorola" ; 5 x "Motorola"
Radar	1 x "Raytheon" M25-ARPA; 1 x "JRC" JMA 7252 - 6; 1 x "Furuno" FR1510 Mark 3; 1 x "Furuno" FR2117
Echo Sounder	2 x "Elac" LAZ 72A; 2 x "Elac" DAZ 13-04 digital repeater
Joystic	1 x ASK4000JS
GPS	1 x "Raytheon" 920; 1 x "Trimble" NavTracXL GPS; 1 x "JRC" J-NAV 500
Gyrocompass	2 x "Sperry" MK 37D Gyro compass
Autopilot	1 x "Anschutz" Nauto Control System
Magnetic Compass	Sestrel № 4786 N/S
Weather Fax	1 x "Furuno" FAX 207
Speed Log	1 x "Sperry" SRO-301B
AIS	1 x "Seatex" AIS 100
Wind Indicator	1 x YOUNG WIND TRACKER

INTERNAL	
Emergency Fire Pump	1 x 60 m ³
BA Recharging Comp	Nil
Bauer Kompressoren	Nil
Mariner	
Fire Detection & Alarm System	Yes

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