


## FRAM PRINCE - MOSS 919 - Anchor Handling Tug Supply

General	
Design	MOSS 919 AHTS
Built	SPP/ Tersan Shipyard
Delivered	2021
IMO	9709049
Call Sign	5BZS5
Flag	Cyprus
Port of Reg	Limassol
ERN	99,99,99



Class
BV, I, <del>+</del> HULL, <del>+</del> MACH, Offshore Support Vessel (Anchor handling; Oil recovery Fire-fighting 2,) SP 59, Unrestricted navigation, COMF-VIB 3, <del>+</del> AUT-UMS, <del>+</del> SYS-NEQ-OSV, GREEN PASSPORT, CLEANSHIP SUPER, ICE, <del>+</del> DYNAPOS AM/AT R, SDS

Dimension	Deck Capacities
Length overall: 84.00 m	Cargo deck (max): 640m <sup>2</sup> (40,0m x16,2m)
LPP: 73.20m	Cargo deck (usable): 562m <sup>2</sup> (34,7m x16,2m)
Breadth moulded: 19.40 m	Deck Capacity: 1300MT (VCG 1m)
Depth moulded: 9.00 m	Deck Strength: 15 MT/m <sup>2</sup> / 10 MT/m <sup>2</sup>
Operation draught: 6.50 m	Cargo Rail height: 3m above deck.
Maximum draught: 7.625 m	Reefer Outlet: 440VAC, 32A, 60 Hz 4 sockets
DWT at max draught: 3,427 tons	Accommodation for 59 persons (SPS 59) 31 x 1-man cabin, 10 x 2-man cabin 2 x 4-man cabin
GRT 4893	
NRT 1467	
Lightship weight: 5097	
Accommodation: SPS 59.	

Power and Propulsion	
Main Engines: 4 MAK x 4.000 kW (21.760BHP)	Thrusters:
Bollard Pull: 224/237	2 x Tunnel thrusters forward 2 x 1.360 BHP
2 x Aux generators (IP44) 2 x 1240 BHP	1 x Azimuth thruster forward 1 x 1.630 BHP
2 x Shaft generators 2 x 4020 BHP	2 x Tunnel thrusters aft 2 x 1.360 BHP
1 x Emergency generator 1 x 320 BHP	2 x CPP in fixed nozzles
Max Speed about 16.5 kts	2 x High lift flap rudders
SCR & Urea Installed for all ME and DG, Emission limits according to IMO TIER III	

Disclaimer: Details believed to be correct but without guarantee. Last updated 10.08.2022

### Framar Shipping Limited

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<b>Anchor Handling Equipment</b>	
4 chain lockers, each of 137m <sup>3</sup> , total 548m <sup>3</sup> Chain inlet close to the locker center.	Capacities Approx. 4x 1650m length of 76 mm Approx. 4x 1500m length of 84 mm Approx. 4x 550m length of 120 mm
Cable Lifters: 2 x 76mm, 2 x 84mm, 2 x 105mm, 2x 114mm, 2 x 120mm	
Duty of 76 mm cable lifters - double drive : 1 <sup>st</sup> Step 500 t @ 14 m/min (at max 55 bar) 2 <sup>nd</sup> Step 312 t @ 21 m/min (at max 57 bar) 3 <sup>rd</sup> Step 130 t @ 42 m/min (at max 57 bar)	Dynamic braking: 500 tonnes @ 63 m/min 412 tonnes @ 100 m/min 172 tonnes @ 137 m/min
Split stern Roller: L 2 x 3m Dia 3,5 m – SWL 600 t Shark jaws: 2 x 650mt Tugger winch: 2 x 24mt pull / 100m wire Capstans: 2 x 10mt pull / 60m storage	

<b>BRATTVAAG towing / anchor handling winch BSL400W/2SL400W of waterfall type</b>	
<b>Towing drum - Starboard</b> Drum dia: 1,5m x length: 2,20m x flange dia 3,2m + 0,9m compartment Wire capacity 2325 m of 86 mm wire + Comp Wire capacity 2800 m of 76 mm wire + Comp Alt. 380m of 203 mm + Comp	<b>Working drum - Port:</b> Drum dia: 1,5m x length: 1,38m x flange dia 3,2m Wire capacity 1431 m of 83 mm wire. Wire capacity 1738 m of 73 mm wire. Alt. 230 m of 203mm
<b>Anchor Handling drum:</b> Drum dia: 1,5m x length: 4,87m x flange dia 3,2m + 0,9m compartment Wire capacity 5188 m of 83 mm wire Wire capacity 6181 m of 76 mm wire 877 m of 208 mm in main compartment + 123 m of 208mm in socket compartment.	Currently installed: Towing Drum Starb: 1500m 83mm Working Drum Port: 1250m 83mm 1x 250m 83mm CR529 CR sockets Certified 2019
<b>Duty on Towing drum/Working drum/AH drum 1st layer - double drive 57 bar/4pumps</b>	
1 <sup>st</sup> Step 400 tonnes @ 0 - 19 m/min Mid 289 tonnes @ 0 - 26 m/min Outer 214 tonnes @ 0 - 35 m/min  Dynamic braking: 1st 74 to 528 tonnes @ 0 - 86 m/min	Lowering 1st 0 - 65 m/min Mid 0 - 89 m/min Outer 0 - 121 m/min Static brake 1st 525 tonnes Mid 379 tonnes Outer 281 tonnes

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### Two off BRATTVAAG Secondary winch type ALM63138U

Drum dia 1,5m x 4,5m length + 0,9m length special compartment / Flange dia 4,5m  
 1600 m 203 mm + 250m in socket compartment, total 1850m  
 5345 m 76 mm wire, max weight 150 tonnes on drum.  
 4275 m 86 mm wire, max weight 150 tonnes on drum.

When driven at 60 bar powered by 2 pumps 1st 140 tonnes @ 0 - 28 m/min Mid 77 tonnes @ 0 - 52 m/min Outer 53 tonnes @ 0 - 75 m/min	Dynamic braking: 1st 23 to 175 tonnes @ 0 - 72 m/min Mid 13 to 96 tonnes @ 0 - 131 m/min Outer 9 to 66 tonnes @ 0 - 190 m/min
Static break 1st 170 tonnes Outer 64 tonnes	Emergency Release Couplings (ERC) installed on all winches to disengage the drums within 3 seconds from the drive units. Max 23t side force on spooling device

### Deck Equipment

1 el-hydr. knuckle boom crane of 120 t/m Lifting capacity SWL 6t/20m, Working radius telescope out 20 m Hoisting speed: 40 m/min. Dynamic Factor: 15% 1 x Pennant Winder 2 x Chain Roller & Guide 70mm-165mm	2 Rolls Royce Anchor Handling / Cargo Rail cranes w/manipulators 3t 10m-14,3m 5t 3,2-10m 2 x Tugger 24t 100m - 40mm/220m@30mm 1 x Capstan 93,7t 60m - 24mm 2 x Centering device 2 x Stop Pins
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### Cargo - Tank Capacities / Pumps

Tank	(100%)	Pump	
Ballast water/drill water	2245 m3	2 x Centrifugal	200 m <sup>3</sup> /hr 90mlc/20mlc
Fresh water (potable)	1326 m3	2 x Two speed	200 m <sup>3</sup> /hr 90mlc/20mlc
Dry bulk (4 Tanks - SG 2,6)	259 m3	1x Duplex	2x25,6 m3/min 5,6 bar
Base oil (combo)	314 m3	1 x 2-spindle screw	80m <sup>3</sup> /hr 90mlc
Fuel Oil	1661 m3	2 x 2-spindle screw	200 m <sup>3</sup> /hr 90mlc
Liquid mud - SG 2,8 (Combo)	619 m3	2 x Eccentric screw	75m <sup>3</sup> /hr 90mlc
Brine, B&C -SG 2,5 (Combo)	619 m3	2 x spindle screw	80m <sup>3</sup> /hr 90mlc
ORO	1110 m3	2 x Eccentric screw	75m <sup>3</sup> /hr 90mlc
Portable tank cleaning system for all tanks.			
All tanks are designed for liquids with flashpoint above 60°C.			
The piping are arranged as two systems capable of discharging two types of bulks simultaneously through two separate discharge lines. Mucking ejector for each tanks are fitted.			

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