


SAYAN PRINCE - MOSS 919 - Anchor Handling Tug Supply

General	
Design	MOSS 919 AHTS
Built	SPP/ Tersan Shipyard
Delivered	2021
IMO	9709049
Call Sign	9HA4837
Flag	Malta
Port of Reg	Valetta



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

Dimension	Deck Capacities
Length overall: 84.00 m	Cargo deck (max): 640m ² (40,0m x16,2m)
LPP: 73.20m	Cargo deck (usable): 562m ² (34,7m x16,2m)
Breadth moulded: 19.40 m	Deck Capacity: 1300MT (VCG 1m)
Depth moulded: 9.00 m	Deck Strength: 15 MT/m ² / 10 MT/m ²
Operation draught: 6.50 m	Cargo Rail height: 3m above deck.
Maximum draught: 7.625 m	Deck power box: 1x400A + 2x100A + 4x32A + 2x60A + 4x16A
DWT at max draught: 3,427 tons	Accommodation for 59 persons (SPS 59)
GRT 4893	31 x 1-man cabin
NRT 1467	10 x 2-man cabin
Lightship weight: 5097	2 x 4-man cabin
Accommodation: SPS 59.	

Power and Propulsion	
Main Engines: 4 MAK x 4.000 kW (21.760BHP)	Thrusters:
Bollard Pull: 235+ (TBC)	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 26.05.2021

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Anchor Handling Equipment	
4 chain lockers, each of 137m ³ , total 548m ³ 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 st Step 500 t @ 14 m/min (at max 55 bar) 2 nd Step 312 t @ 21 m/min (at max 57 bar) 3 rd 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	

BRATTVAAG towing / anchor handling winch BSL400W/2SL400W of waterfall type	
Towing drum: Drum dia: 1,5m x length: 1,37m x flange dia 3,2m Wire capacity 1431 m of 86 mm wire Wire capacity 2000 m of 76 mm wire Alt. 175m of 203 mm	Working drum: Drum dia: 1,5m x length: 3,0m x flange dia 3,2m Wire capacity 2715 m of 86 mm wire. Wire capacity 2850 m of 83 mm wire. Alt. 400m of 203mm
Anchor Handling drum: Drum dia: 1,5m x length: 4,87m + 0,9m socket part x flange dia: 3,2m Wire capacity 4435 m of 86 mm wire 650 m of 203 mm in main compartment + 100m of 203mm in socket compartment.	Currently installed: 2 x 1250m 83mm 1x 250m 83mm CR529 CR sockets Certified 2019
Duty on Towing drum/Working drum/AH drum 1st layer - double drive 57 bar/4pumps	
1 st 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	Pump
Ballast water/drill water 2245 m3	2 x Centrifugal 200 m ³ /hr 90mlc/20mlc
Fresh water (potable) 1326 m3	2 x Two speed 200 m ³ /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 ³ /hr 90mlc
Fuel Oil 1661 m3	2 x 2-spindle screw 200 m ³ /hr 90mlc
Liquid mud - SG 2,8 (Combo) 619 m3	2 x Eccentric screw 75m ³ /hr 90mlc
Brine, B&C -SG 2,5 (Combo) 619 m3	2 x spindle screw 80m ³ /hr 90mlc
ORO 1110 m3	2 x Eccentric screw 75m ³ /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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FIFI II Equipment

2 remote operated water monitors FFS 3600 with spray deflector.
330 degrees Elevation: -80 to +80 degrees

Capacity Water/ Foam 3600m³h Throw length/height: >180/110 meters in accordance to FI-FI II class requirements

Front power take off outer engines for driving FiFi II Pumps with means of two step-up gear.

Monitor inlet pressure: approx. 11,5 bar

DP Interfaces & Position reference systems

3 Gyrocompass Interfaces.
2 VRU Interfaces.
3 Wind Sensor Interfaces.
1 DGPS Interface.
2 DGPS, 12 channel Seatex 700, Correction signal from Sat system.

Prepared for Kongsberg Simrad HIPAP 500 system (Compartment for the HPR unit forward stb. in engine room)
1 Laser Fan Beam. MDL KM CYSCAN with multiple tracking and automatic vertical adjustment.
1 HPR-interface.

Various

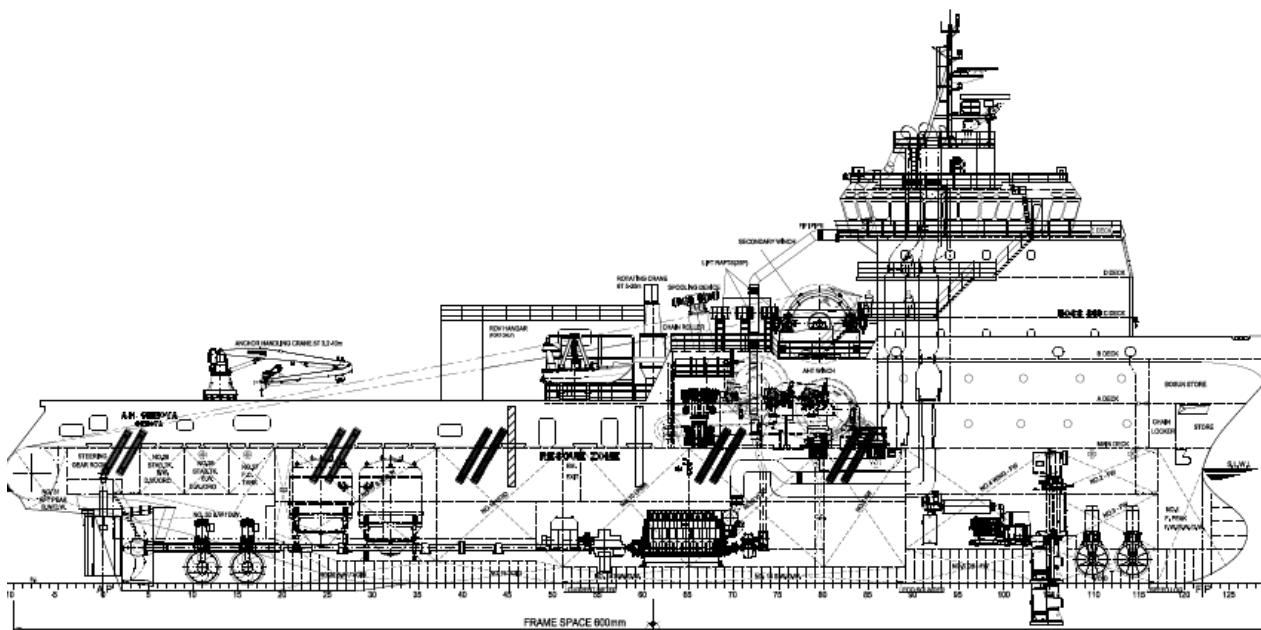
Distilled and make-up water systems Capacity min. 12 t/day with heating

FRC, water jet with inboard diesel engine of 150 Hp

Fittings for the rescue net to be placed on the cargo rail Starboard.

Passive Anti Rolling System. The anti-rolling passive stabilizing system consists of tanks 28 & 29 (DW/ORO) in aft body of the vessel extending from ship's side to ship's side. The tanks are provided with flow-reducing structural elements/arrangements.

Fully integrated ROV hangar, with Kongsberg Evotec L-Frame LARS
IKM Subsea Merlin WR200 Work Class ROV (Not yet installed)



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