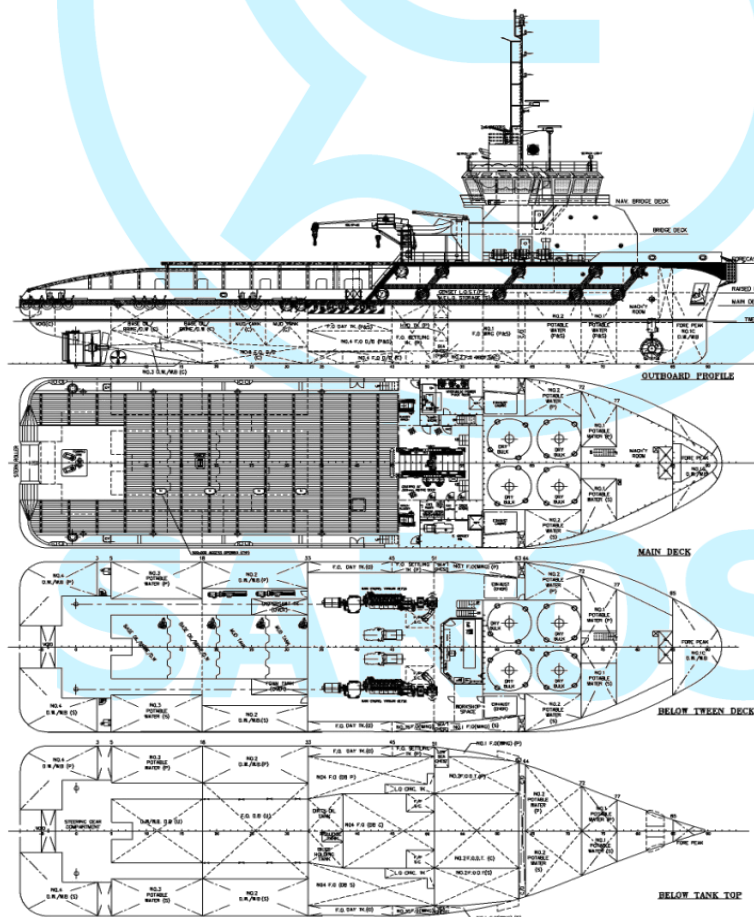


SAROST 5

D.P.1/ FI.FI.1 A.H.T.S. Vessel
75 Tons bollard pull



SAROST S.A.

SAROST 5 is an Anchor Handling Tug Supply Vessel designed by WARTSILA Ship Design to carry out general services for the offshore industry.

She is a multipurpose offshore support vessel, equipped with a 150T pull Hydraulic double drum winch in waterfall arrangement, suitable for towing and anchor handling operations.

SAROST 5 is also equipped with a Stern Roller & Shark Jaws for the safe handling of chains and wires, retractable Towing pins for controlling and guiding towing line and cables during towing operations.

SAROST 5 offers larger liquid cargo, bulk cement, mud, foam, dispersant, stores, materials and equipment transport capacities than other vessels of its category.

SAROST 5 is fitted with a KONGSBERG DP1 class system and is upgradable to DP2. Her Fire Fighting System is Class 1.

SAROST 5 can easily be upgraded for standby service duties.



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MAIN CHARACTERISTICS

Length overall: 60.00 m.
Breadth molded: 16.00 m.
Depth main deck: 6.00 m.
Max draft: 5.10 m.
Bollard pull:74.2 t.
Gross Tonnage:1761 t.
Net Tonnage:.....528 t.
Available deck space :390 M2

REGISTRATION

Type:AHTS. vessel
Owner:SAROST S.A
Delivery:DEC 2010.
Builder: Nam Cheong Dockyard-MIRI-MALAYSIA.
Flag:TUNISIAN
Call Sign:.....TSNS
IMO N°:.....9537836

Classification: BV. I HULL MACH.Tug ; Supply Vessel ; Fire Fighting Ship ; Special Service/Fire Fighting 1 with water spray /Offshore Support Vessel; Unrestricted Navigation DYNAPOS - AM/AT

PERFORMANCE

Consumption: 18.2 MT/day at 13.5 knots (maxi speed 100 %).
14.2 MT/day at 12 knots (service speed 80 %).

ACCOMMODATION : 40 berths excluding Hospital.

Accommodation Spaces are fully Air-Conditioned.

Bridge Deck: Total 8 Berths

4 x 1 man cabin (Bridge deck)

2 x 2 man cabins (Bridge deck)

Forecastle Deck: 32 Berths

8 x 4 man cabin

1 Fully equipped Hospital at Raised Deck, can accommodate 2 men.

1 Office, 2 mess/day rooms, laundry, galley, provision rooms, stores.

PROPULSION – MACHINERY

MAIN ENGINES: 2 x 2610 (1920 kw) @ 750 RPM -YANMAR 6EY26

PROPULSION SYSTEM: 2 x CPP TYPE BCP 690 – BERG

BOW THRUSTER: 1 x 600 KW ELECTRIC DRIVEN SCHOTTEL STT 2CP Tunnel TYPE (CPP) with thrust of 8 TONS.

STERN THRUSTER: 1 x 450 KW ELECTRIC DRIVEN SCHOTTEL STT 1CP Tunnel TYPE (CPP) with thrust of 6 TONS.

STEERING GEAR: 2 x Independent Electro-Hydraulic Steering gear system

RUDDER: 2 x High Lift Rudder c/w Flap

POWER PLANT

MAIN GENERATORS: 2 x 275 (KW), CATERPILLAR C18 DITTA - 415V/3PH/50 Hz

SHAFT GENERATORS: 2 x 1000 (KW)- 415V/3PH/50 Hz

EMERGENCY GENERATOR 1 x 90 (KW) CATERPILLAR GEP 110 - 415V/3PH/50 Hz

DECK MACHINERY

TOWING/AH WINCH : Mc GREGOR Electro-hydraulic double drum PLIMSOLL PC AHTW/WF 150-250

Upper/Lower DRUMS Cap : 1000 m(L) x 58 mm (D)

Line Pull :150 TONS @ 6m/mn – 75 TONS @ 12m/mn – 50 TONS@18m/mn- 25mt@32m/mn.

Brake Holding: 250 MT @ 1st layer. Remote control from W/house and Local/VCD control

Rope Reel : variable speed storage rope reel c/w local hydraulic control

Cap : 10m/t @15m/mn – Drum Cap : 1000 (ml) x 58 mm (D) SWR

STERN ROLLER: 1.6 – 1.8 m of Ø X 4.2 m length with SWL of 375 TONS.

SHARK JAWS : 1 set Hydraulic operated retractable lock jaws able to use 11/4” to 3 ½ ” D wire/chain, min 300 TONS SWL.

TOWING PINS: 2 x suitable for average 75 TONS Bollard Pull Equipped with rotating liners

TUGGER WINCH: 2 x 10 TONS @ 15m/mn- PLIMSOLL Drum: 200 x 22 mm Ø steel wire rope.

CAPSTAN: 2 x 5 TONS @ 15m/mn – PLIMSOLL – Remote and local control Drum of 380 mm Ø.

ANCHOR WINDLASS: 01 electro-hydraulic PLIMSOLL -type double Gypsy, Single Drum, Double warp end of 380 mm Ø.

TANK CAPACITY

Fresh Water: 489 M³

Fuel Oil: 530 M³

Drill Water/S.W.Ballast:450 M3

Liquid Mud / Brine: 190 M³

Base Oil / Brine: 180 M³

Dry Bulk: 150 M3

Foam Tank: 10 M³

Dispersant Tank: 10 M³

Sewage Holding Tank: 12 M³

Bilge Holding Tank: 10 M³

Discharge Rates

Fuel Oil: 100 M3/h @ 75m head

Fresh water: 100 M3/h @ 75m head

Potable Water: 100 M3/h @ 75m head

Brine: 100 M3/h @ 75m head

Drill Water: 100 M3/h @ 75m head

Liquid Mud: 2x 80 M3/h @ 75m head

Dry Bulk Delivery: 2 x 14 m³/hr @ 5.67 bar

GS & Fire/Detergent: 50M3/hr @ 57m head

NAVIGATION EQUIPMENT

- 2 Radar: 1x RAYTHEON 96 NM & 1x 48 NM x-bands.

- 1 gyrocompass

- 1 magnetic compass, SAURA M150

- 1 digital echo-sounder FURUNO FE700

- 1 WALKER speed log.

- 1 autopilot system.

- 1 GPS.

COMMUNICATION

One radio system compliant with GMDSS A3 rules including:

- 1 SSB duplex DSC

- 2 INMARSAT C

- 3 DSC VHF

- 1 EPIRB

- 2 SART

- 1 NAVTEX.

- 1 INMARSAT Fleet Broadband 250

- VINGTOR PA/Intercom system & Self Powered Telephones

DYNAMIC POSITIONING SYSTEM (DP 1) KONGSBERG.

Comply with class notation DYNAPOS AM/AT (class 1).

- System allowing: dynamic positioning, automatic speed control.

- Reference system: 2 DGPS.

- Sensors: 01 gyrocompass, 1 wind sensor

SAFETY EQUIPMENT

- 1 rescue boat 6 P with recovery davit/ single point launching, 40 HP

Outboard engine,

- 6 Life rafts- capacity: 20 persons /each.

- 8 Lifebuoys

- 50 life Jackets.

Gypsy :36 mm Ø U3 Chain, 10 T Max pull, 6.6 T x 12m/mn – manual operated brake/clutch
Drum : pull rate 10TONS @12m/mn-5 TONS @24m/mn- Cap : 100 m x 96 mm D(PPR)

ANCHORS: 2 x AC-14 High holding power Anchors, each 1575 Kg.
ANCHOR CHAINS : 2 x 440 m total length,36mm Ø , GRADE 2 Stud Link chains
DECK CRANE : 01 Electro Hydraulic fixed type 5 t @ 8 m outreach

FIRE FIGHTING EQUIPMENT

FIFI SYSTEM: Cass 1 with water curtain all round.

FIRE PUMPS: 2 x 1500 M3/h (300 M3/h for exposed deck water curtain spray Nozzle) 140mlc head, 750kw @1800 rpm, HAMWORTHY.

FIRE MONITORS: 01 Water / Foam monitor FEH 200 D
01 water monitor FEH 200
Water capacity 1200 M3/h – Foam capacity 300 M3/h
120 m throw length – 50 m throw height.

Fixed WATER SPRAYING SYSTEM: One complete set of water curtain flat spray nozzles type AN c/w 4nos hydrosshield jet/fog nozzles for FWD/AFT deck coverage total capacity 600 M3/h to be drawn from 02 fire pumps.

Foam system: 01 Electric Driven multistage non self pump priming centrifugal Foam pump 15 M3/h @14.5 bar, 2900 rpm.
01cast iron metering valve for foam mixing , ratio 1 - 5 %

OIL DISPERSANT SYSTEM : 01 detergent proportioner of between 1% to 6%
02 aluminum Spray Booms, 6m Long each fitted with 03 nozzles of 125l/mn at 5Kg/cm2

INTERNAL

Emergency Fire Pump : 1 x 40 M3/h @ 57 m total head

CO2 and Fire Alarm System : CO2 system for engine room, bow thruster room and paint store

Fire alarm & Detection System: in all living spaces and engine room Designed in accordance to SOLAS and BV Class Rules.

BA Recharging Comp : 01 BAUER BA COMP Model M200E

- 10 x Oxygen bottles (Emergency Escape Breathing Devices).
- Immersion suits as per SOLAS requirements.

LIFE SAVING/ RESCUE & RECOVERY EQUIPMENT

- 1x Mechanical Recovery Type Dacon Scoop
- 1x Rescue Basket Cosalt Type 6 man
- 2x 2000 W Search lights with remote joystick and focus controls
- 2x marked Rescue Zones; one on port & one on Starboard, at center part of main deck.

- A clear access to the survivor holding area
- Securing points for scrambling nets, safety lines and rescue boat
- One built up platform(10x4mtrs) extending the port stern part of the forecastle deck; designed to receive:

- On top, one Fast Rescue Craft Type 15 man/NORMAR 650 - 2x60 BHP out board engines & Electro hydraulic quick lanching davit.
- Below, a set of showers (Reception & treatment area for survivors)

SPECIAL EQUIPMENT

- Floodlights : 6 x 1000 w & 2 x 500 w
- Water Maker : 1x5m3/day Reverse Osmosis
- Rubber push bow.

When, required the vessel can be equipped with pollution fighting container including floating booms and Skimmers.