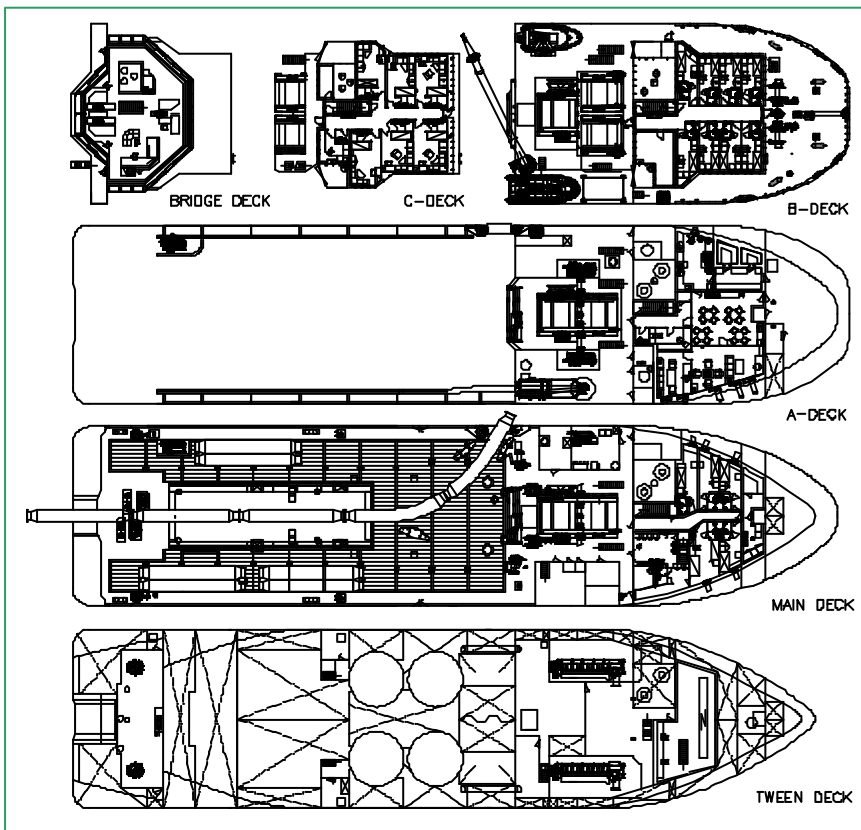




DP 1 anchor handling and oil spill response vessel
for deep water operations

HAROLDO RAMOS

130 Metric ton bollard pull
300 Metric ton line pull winch



This Rolls Royce Marine UT 722 L Design vessel is fitted with a class I DP system and oil recovered storage capacities, equipment (Transrec and boom). It is equipped for deep water anchor-handling and towing with 2 drums as main winches and 2 drums as secondary winches.

OIL RECOVERED/HOSE HANDLING
CONFIGURATION

15-06-2005



DP 1 anchor handling and oil spill response vessel for deep water operations **HAROLDO RAMOS** 12,740 bhp

MAIN CHARACTERISTICS

Length overall:77.50 m.
Length between pp:66.50 m.
Breadth moulded:18.00 m.
Depth main deck midship:8.00 m.
Deadweight (approx) at 6.00 m draft: ...1,920 t.
(approx) at 6.60 m draft: ...2,480 t.
Gross tonnage:3,254.

REGISTRATION

Type:UT 722 L (Petrobras AHTS 10000 TO.)
Owner:DELBA MARÍTIMA NAVEGAÇÃO SA.
Year built:2004.
Builder:FELS SETAL (BRAZIL).
Flag:BRAZILIAN.
Classification: ..DNV.
✦ 1A1-TUG-SF-EO-DYNPOS AUT-OIL REC-TMON.

PERFORMANCE

Trial speed at 4.25m draft/100% MCR:15 knots
Economic speed:10 to 13 knots

ACCOMMODATION

- Fully air-conditioned.
- Accommodation for 30 persons composed of:
 - 6 x single cabins, 12 x 2 men cabins.
- 2 offices, 1 hospital, 1 mess rooms, 2 day rooms, laundry, galley, drying room, provision room.

PROPULSION - MACHINERY

- **Main diesel engines:** 2x 4,500 kW at 750 rpm, BERGEN B32: 40L9P.
- **Reduction:** 2 gear boxes, 750/160 rpm, 2 PTO.
- **Shaft generators:** 2x2,800 kVA at 1,200 rpm
- **Auxiliary generators:** 2x 390 kVA at 1,800 rpm MDO 440 V/60 Hz.
- **Emergency generator:** 1x 106 kVA.

THRUSTERS

- **Main propellers:** 2x with CPP (diameter: 3,900 mm).
- **Tunnel thruster forward:** 1x 883 kW electric driven.
- **Tunnel thruster stern:** 1x 883 kW electric driven.
- **Azimuth thruster forward:** 1x 883 kW electric driven.
- **Rudders:** 2 independent flap rudders giving side thrust.

TOWING/ANCHOR HANDLING WINCHES

- **Main winches:** 1 waterfall type: Brattvaag BSL 300W/SL 300W low pressure hydraulic.
2 drums each specified as follows: 1,500 mm diameter x 2,700 mm length.
 - Wire capacity:2,950 m of 3".
 - Wilcats up of 70, 76, 84 and 100 mm.
 - Dynamic braking on first layer:400 t.
 - Hoisting on first layer:300 t at 0-9,9 m/min.
.....81 t at 0-31,1 m/min.
- **Secondary winches:** Brattvaag ALM 63050U comprising 2 drums specified as follows: 1,500 mm diameter x 2,000 mm length.
 - Wire capacity:3,500 m of 3".
 - Dynamic braking on first layer:60 t.
 - Hoisting on first layer:50 t at 0-14 m/min.
- **Tugger winches:** 2x 15 t: (speed 0-21 m/min).
- **Stern roller:**(single) diameter 4.00 m x 4.00 m length, SWL 350 t.
- **Capstans:** 2x 11 t at 0-17 m/min.
- **Deck-provision crane:** 1x 5 t. at 16 m / hydraulic.
- **Life boat:** 1 MOB boat with davit, life rafts with equipment.
- **Windlass:** 1.

CAPACITIES

Cargo deck area:15.20 x 40.50 m.
Deck cargo:800 t.
Cargo chain lockers:350 m³ (comprising 2 off square lockers)
Fuel oil:1,050 m³
Oil recovery:1,100 m³
Fresh water:930 m³

ELECTRONICS

- 2 radars,
- 1 gyrocompass system with repeaters,
- 1 echo sounder,
- 1 speed log,
- 1 autopilot with forward thrusters control,
- 1 GPS,
- 1 DGPS (to DP application),
- 1 radio system compliant with GMDSS A3 rules,
- 1 Inmarsat C,
- 1 mini M,
- 1 weather fax,
- 1 globalstar.

DP SYSTEM & JOYSTICK SYSTEM

- DP system (class I) comprising:
 - 1 operator panel,
 - 1 computer, 1 printer,
 - 1 gyro compass,
 - 1 wind sensors ,
 - 1 additional gyrocompass,
 - 1 motion reference sensor,
 - 1 UPS,
 - 1 DGNSS (combined DGPS and GLONASS).
 - 1 FANBEAM.
- Joystick system comprising:
 - 1 control panel,
 - 1 portable control panel,
 - 1 micro computer.

ALARM & MONITORING SYSTEM

- 1 UMAS V system control:
 - Main engines, propeller system, bilge system, cooling system, Fuel system.

SPECIAL EQUIPMENT

- 1 Work/service boat (2 tons bollard pull).
- 1 Transrec 250 c/w boom and skimmer,
- 1 Uniboom inflatable oil boom on turret (400 m length).

OTHERS

- Passive Roll Reduction System.

(All particulars believed to be correct but not guaranteed).

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