BOURBON ORCA, AX104-design from Ulstein Design is a Diesel electric AHTS with the patented Ulstein X-Bow. The vessel is equipped with 2 drums waterfall type for towing/working and 1 drum for anchor handling with large capacities, as well as 2 secondary drums. It is designed for World Wide service, for the purpose of performing and fulfilling the following duties:

- Subsea Intervention services, ROV operations, deepwater precision lifting & installation.
- Transportation of pipes, cement, equipment and liquid cargo to and from Pipelay Vessels, Drilling Platform and ships.
- Arranged for oil recovery operations and FF/FI class.

REGISTRATION

Vessel Name: BOURBON ORCA
Type: DP2 supply vessel AX104 ULSTEIN Design
Year: 2006
Owner: Bourbon Ships AS

Builder: ULSTEIN VERFT AS (Norway)
Class: DNV 1A1, Supply Vessel SF, Fire Fighter 1, Tug, EQ, DYNPOS, AUTR, CLEAN, COMF-V(3), DK(+), HL(+), NAUT-OSV (LOC),
Flag: Norwegian.

Updated: 23-01-2015
### MAIN PARTICULARS

**DIMENSIONS**
- Length overall: 86.30 m
- Breath moulded: 18.50 m
- Depth: 8.50 m
- Draft: 7.00 m
- Deadweight: 3,180 mt
- Bollard pull: 183 mt
- Gross/Net tonnage: 4,311/1,226

**CAPACITIES**
- Deck area (usable): (10.0 t/m² @ aft fr. 48). (28.00 x 15.20 m) 548 m²
- Deck cargo: 1,200 mt
- Fuel oil (MDO): 1,486 m³
- Fresh water: 503 m³
- Drill water/Ballast water: 2,482 m³
- Brine: 558 m³
- Liquid mud: (4 tanks): 530 m³
- Dry bulk (4 tanks): 254 m³
- Slop: 167 m³
- Base oil: 447 m³
- Rig chain locker: (4 lockers): 626 m³
- Roll damping system: 209.3 m³

**DELIVERY RATES**
- Fuel oil: 250 m³/h at 9 bars
- Fresh water: 150 m³/h at 9 bars
- Drill water/Ballast water: 2x250 m³/h at 9 bars
- Brine: 75 m³/h at 24 bars
- Liquid mud: 2x75 m³/h at 24 bars
- Base oil: 100 m³/h at 9 bars
- Slop: 50 m³/h at 5 bars
- Dry Bulk: Duplex BHS compressor, 2x30 m³/h at 6 bars
- Ballast water treatment system: 250 m³/h
- Loading / Discharge stations: (psb): 2 x aft ship + 2 mid ship

**ACCOMMODATIONS**
- Accommodations for: 34 pers
- Single cabins: 14
- 2 man cabins: 10
- Hospital: 1
- Mess / day rooms, conference room (12 psrs), trim room, laundry, galley, provision room, stores, office, exercise room, reception area
- Fully air conditioned

### MACHINERY / PERFORMANCE

**PROPULSION - MACHINERY**
- Main generator engines: 4 x 2,880 KW + Aux. Gen Sets: 2x 1,665 KW
- Tendem electric propulsion motors arrangement: 2x 5,000 KW
- Twin installation main azimuth thrusters with nozzles, controllable speed
- Bow tunnel thruster: 1x 1,160 KW, cpp
- Bow retractable steerable thruster: 1x 1,800 KW, cpp
- Emergency / harbour generator: 1x 370 KW
- Shore connection: 440 V / 350 A
- 3 outlets 230 V / 32 A. Incinerator 465 KW. Boiler 872 KW

**SPEED / CONSUMPTION**
- Maximum speed: 60 m/day at 17 knots
- Service speed: 26 m/day at 12 knots
- Economic speed: 5 m/day at 1 knot
- In port: 2 m/day
- DP Operation: (depending on weather): 5 to 30 m/day

### EQUIPMENT & ELECTRONICS

**DECK EQUIPMENT**
- Main winch: 1 electro-hydraulic winch composed of 3 drums in waterfall arrangement, consisting of:
  - Towing/working: 2 drums, 1.50 / 3.20 m diam. x 2.30 m length each
  - Wire capacity: 1,500 m of 3"
  - Brake holding load: 500 mt on 1st layer
  - Duty in hoist: 400 mt on 1st layer @ 0 - 18.7 m/min
  - Duty dynamic braking: 100 to 400 mt @ 0 - 88 m/min
  - Spooling devices: 2 for towing/working drums, side load 40 mt
  - Anchor handling: 1 drum, 1.50 x 2.0 m diam. x 4.57 m + 0.30 m length
  - Wire capacity: 5,000 m of 5" + 900 m of 3" socket compartment
  - Duty in hoist: 400 mt on 1st layer @ 0 - 30 m/min
  - Duty dynamic braking: 100 to 400 mt @ 0 - 88 m/min
  - Secondary winches: 2 with dividing flange socket part
  - Capacity: 1,600 m of 8" synthetic rope
  - Duty in hoist: 138 mt on 1st layer @ 0 - 28 m/min
  - Duty dynamic braking: 70 mt @ 0 - 70 m/min
  - Spooling devices: 2 for secondary winch, side load 23 mt
  - Storage winch: 1,500 m of 3" spare tow wire rope, pull 10 mt
  - Windlass: 1 combined mooring and windlass winch: 10 mt / 99.5 m min
  - Stern roller: 300 mt SWL
  - Anchor handling: 2 AH forks, 500 mt SWL, 4 towing pins
  - Capstans: 2 x 15 mt @ 0 - 14 m/min
  - Knuckle boom crane: 10 mt / 15 m
  - ODM Safe Anchor Handling System (SAHS):
    - 2 tugger cranes, travelling on top of cargo rail: tugger winch 15 t SWL
    - Crane winch 3 t SWL, max outreach 10 m
  - Twin stern rollers system: (twin inboard) diam.1.80 x 3.00 m length
  - Dynamic max load: 400 mt @ 50 m/min. – Static max load: 500 mt

**ELECTRONICS**
- NAVIGATION
  - 1 radar Sband ARPA, 1 radar Xband ARPA,
  - 3 gyrocompasses combined with DP system, 2 Digital short system ECDIS,
  - 1 GPS, Conning station, VDR, AIS, SSAS, Navtex
  - speed log, 1 echo-sounder, 1 autopilot, magnetic compass.

- COMMUNICATION
  - 1 complete GMDS area A3 radio installation including:
    - 1 Satcom C, Satcom F, 1 INMARSAT F 77 with fax, MF/HF radio, 4 VHF,
    - 3 UHF, 6 VHF portable, 6 UHF portable,
  - E-mail and onboard computer network system.
  - Internal ULSTEIN COM. Automatic exchange telephone system with facilities in each room and offices, satellite TV antenna.
  - Telephone system, separate PA system, DECT.

- DYNAMIC POSITIONING SYSTEM
  - DP2: Comply with DNV class notation DyNAPoS AUTR class II.
  - System allowing: Joystick, automatic tracking, dynamic positioning, automatic speed control.
  - Reference system: 2 DGPS, 1 laser reference system, 2 VRU
  - Sensors: 3 gyrocompasses, 2 wind sensors, 2 motion reference units, 2 operator stations with screen.
  - Prepared for hydro acoustic reference unit with ND 500.

- SAFETY EQUIPMENT
  - Fire Fighting (Fi-Fi 1): 2 pumps of 1,500 m³/h
  - Life saving arrangement: 1 fast rescue craft (water jet) with davit.
  - Life rafts for 20 persons each, with equipment.
  - Lifebuoys x 8, life jackets x 40, immersion suits x 45.

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**All particulars believed to be correct but not guaranteed**

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