



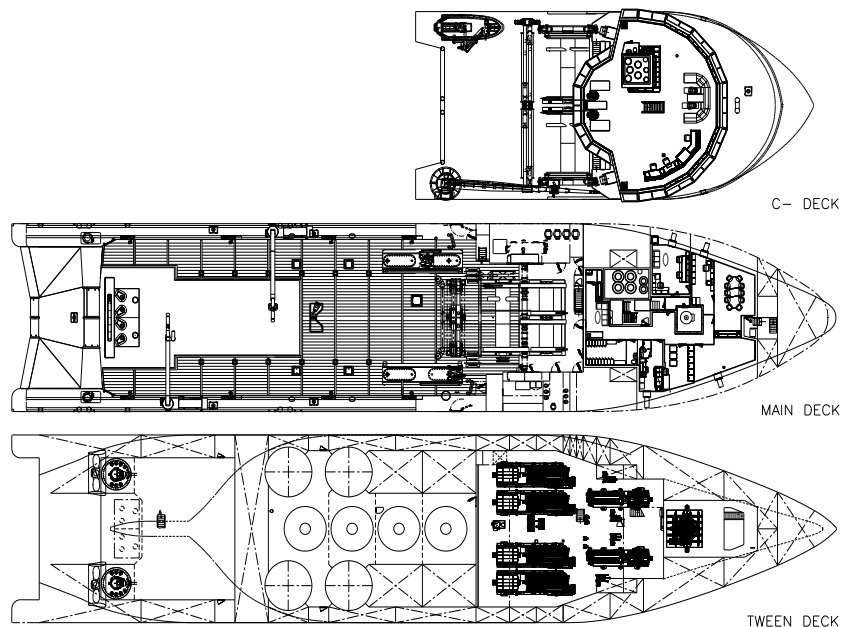
BOURBON ORCA

DP2 Anchor Handling Tug Supply Vessel
183 Metric ton bollard pull
400 Metric ton line pull winch



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 Fi-Fi I class.



ANCHOR HANDLING TUG SUPPLY VESSEL

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, EO, DYNPOS, AUTR, CLEAN, COMF-V(3), DK(+), HL(+), NAUT-OSV (LOC).**

Flag: **Norwegian.**

Updated: 23-01-2015





TECHNICAL SPECIFICATIONS

AHTS - BOURBON ORCA



MAIN PARTICULARS

DIMENSIONS

Length overall:	86.30 m
Breadth 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/m ² @ aft fr. 48)....(28.00 x 15.20 m)	548 m ²
Deck cargo:	1,200 mt
Fuel oil (MDO).....	1,486 m ³
Fresh water:	503 m ³
Drill water/Ballast water:.....	2,482 m ³
Brine:	558 m ³
Liquid mud: (4 tanks).....	530 m ³
Dry bulk (4 tanks):	254 m ³
Slop:	167 m ³
Base oil:	447 m ³
Rig chain locker: (4 lockers).....	626 m ³
Roll damping system:	209.3 m ³

DELIVERY RATES

Fuel oil:	250 m ³ /h at 9 bars
Fresh water:	150 m ³ /h at 9 bars
Drill water/Ballast water:	2x 250 m ³ /h at 9 bars
Brine:	75 m ³ /h at 24 bars
Liquid mud:	2x 75 m ³ /h at 24 bars
Base oil:	100 m ³ /h at 9 bars
Slop:	50 m ³ /h at 5 bars
Dry Bulk:	Duplex BHS compressor, 2x 30 m ³ /h at 6 bars
Ballast water treatment system:	250 m ³ /h
Loading / Discharg stations: (ps-sb).....	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 prs), trim room, laundry, galley, provision room, stores, office, excersise 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	
Tandem 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 ³ /day at 17 knots
Service speed:	26 m ³ /day at 12 knots
Economic speed: (stand-by at sea).....	5 m ³ /day at 1 knot
In port:	2 m ³ /day
DP Operation: (depending on weather).....	5 to 30m ³ /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:	90 - 480 mt @ 0 - 88 m/min
- Spooling devices:	2 for towing/working drums, side load 40 mt
Anchor handling: ... 1 drum, 1.50/3.20 m diam. x 4.57 m + 0.90 m length	
- Wire capacity:	5,000 m of 3"+ 900 m of 3" socket compartment
- Duty in hoist:	400 mt on 1st layer @ 0 - 18.7 m/min
- Duty dynamic braking:	90 - 480 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
1 storage winch:	1,500 m of 3" spare tow wire rope, pull 10 mt
Windlass: 1 combined mooring and windlass winch: 10 mt / 0-9.5 m min	
Stern roller:	300 mt SWL
Shark jaws/towing pins:	2 AH forks, 500 mt SWL/ 4 towing pins
Tuggers:	2 x 20 mt @ 0-14 m/min
Capstans:	2 x 15 mt @ 0-23 m/min
knuckle boom crane:	10 mt/16 m
ODIM 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	
..... (twin outboard) diam. 1.80 x 2.00 m length	
Dynamic max load: 400 mt @ 50 m/min. - Static max load: 500 mt.	

ELECTRONICS

NAVIGATION

1 radar S-band ARPA, 1 radar X-band ARPA,
3 gyrocompasses combined with DP system, 2 Digital chart system ECDIS,
1 GPS, Conning station, VDR, AIS, SSAS, Navtex
speed log, 1 echo-sounder, 1 autopilot, magnetic compass.

COMMUNICATION

1 complete GMDSS 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 on-board 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 m ³ /h
.....	2 monitors of 1,200 m ³ /h
Life saving arrangement: 1 Fast rescue craft (water jet) with davit.	
- 6 Life rafts for 20 persons each, with equipment,	
- Lifebuoys x 8, life Jackets x 40, immersion suits x 45.	

All particulars believed to be correct but not guaranteed