

## M/V BOURBON DOLPHIN ULSTEIN A102



Bourbon Dolphin,  
ULSTEIN A102

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Hull no. 274 Designed by Ulstein Design AS  
Delivered 2006 by Ulstein Verft AS Built for Bourbon  
Offshore Norway

**ULSTEIN A102** is designed and arranged  
for a wide range of offshore operations like:

- Anchor handling and towing
- Handling of anchors and mooring lines in deep water
- Four off large capacity rig chain lockers

Special features:

- High capacity anchor handling towing winch
- High capacity dynamic braking and speed for AHT winch
- Good manoeuverability and station keeping capabilities
- Low noise and vibration levels in accommodation and on working deck
- Power economic solutions and low fuel oil consumption due to efficient hull form
- Extensive integrated alarm, monitoring, and cargo control system
- Fuel overflow system
- Interior walls and ceilings are separated from the steel structures by elastic mounting
- The wheelhouse has excellent visibility in all directions

- Separate engine control room on main deck

M/V "Bourbon Dolphin"  
is built, equipped, and painted (tanks and exterior)  
in drydock inside covered dockhall,  
thus ensuring controllable atmosphere and the best  
quality of work.

Length over all approx. 75,2 m

Length between p.p. 67,0 m

Breadth moulded 17,0 m

Depth to main deck 8,0 m

Draught max 6,5 m

Design draught 5,5 m

## CAPACITIES

Fuel oil (MDO) 1205 m<sup>3</sup>

Fresh water 433 m<sup>3</sup>

Ballast water 1765 m<sup>3</sup>

Brine 583 m<sup>3</sup>

Liquid mud (6 tanks) 627 m<sup>3</sup>

Slop 306 m<sup>3</sup>

Base oil 173 m<sup>3</sup>

Dry bulk tanks (4 off) 162 m<sup>3</sup>

Rig chain lockers (4 off) 522 m<sup>3</sup>

Cargo deck area (14,1 m x 34,5 m) 485 m<sup>2</sup>

Cargo deck dimensioning 10 t/m<sup>2</sup>

Deck load (VCG 1,0 m above main deck) 740 ton

Deadweight at max draught 6,5 m 2130 ton Gross

tonnage, international 2985 GRT

Net tonnage, international 895 NRT

## CLASSIFICATION / FLAG

DnV 1A1, Supply Vessel SF, Tug, E0, DynPos  
AUTR, Fire Fighter I, CLEAN, COMF-V(3), DK(+),  
HL(+), NAUT-OSV (LOC). Flag: NOR. NLS

Certificate.

## PERFORMANCE

Max speed (at design draught) approx. 17.7 knots  
Bollard pull (100% MCR) approx. 194 tonnes

## ACCOMMODATION

Hotel compliment of high standards and with capacity for 35 persons.

- Two one-bed state cabins with day-room and bedroom
- Three one-bed state cabins
- Eight one-bed cabins
- Five two-bed cabins
- Three two+two bed cabins
- Sick bay (on main deck)
- Office and conference room on B-deck
- Galley and mess/cafeteria, day room, and smoke lounge on A-deck
- Lobby, laundry, wardroom, and trim room on main deck
- Dry provisions, cooler, and freezer rooms adjacent to galley

## TECHNICAL DATA

### Deck Cranes

- One knuckle boom crane, 10 t, 16 m
- One folding crane, 1,5 t, 12 m

### Dry bulk plant

- Four tanks, 34 m<sup>3</sup> & 45 m<sup>3</sup>
- Duplex BHS compressor, 2 x 29 m<sup>3</sup>/min, 5,6 bar
- Two dust cyclones with collectors for vent lines
- Two segregated loading/discharge systems

### Liquid Cargo Discharge Systems

- One fresh water pump, 150 m<sup>3</sup>/h – 9 bar, centrifugal
- Two brine pump, 75 – 24, screw spindle
- Two ballast / DW pump, 250 – 9, screw spindle
- One fuel oil pumps, 250 – 9, screw spindle
- One base oil pump, 150 – 9, centrifugal
- Two mud pumps, 75 – 24, eccentric screw
- One slop pump, 50 – 5, centrifugal
- All pumps are electric driven with frequency converter control
- Six agitators, el. driven, for mud and slop tanks
- Tank cleaning system for mud, brine, and slop tanks
- Flowmeter for FO

### Side Thrusters

- One tunnel thruster fwd., 880 kW, cpp
- Swing-up compass thruster fwd., 880 kW, cpp, frequency controlled
- Two tunnel thrusters aft, each 590 kW, cpp

### Roll Damping System

- One roll reduction tank

### Manoeuvring/Positioning

- Joystick
- Dynamic Positioning System DnV AUTR IMO Class II with: Position reference systems: DPS 700, laser reference system
- Preparation for hydro acoustic reference unit

### Navigation / Communication

- S-band ARPA radar and X-band ARPA radar
- Digital chart system ECDIS (duplo)
- Conning station, AIS
- Radio installation according to GMDSS – area A3

### Internal Communication

- ULSTEIN COM automatic telephone, data network, and satellite TV antenna signal to all offices and cabins
- TV Satellite antenna

### Deck Winches

- One combined windlass / mooring winch
- Two tugger winches, pull 20 t, remote control.
- Two capstans aft, pull 15 t, remote control.
- Two towing / working drums

Capacity: 2500 m of 77 mm dia. wire

Brake holding load: 500 tonnes on 1st layer

Duty in hoist: 400 T at 0 – 18,7 m/min. on 1st layer

Duty dynamic braking: 90-480 T at 0-88 m/min.

- Two spooling devices for the towing/working drums, side load 40 tonnes

- One anchor handling drum with dividing flange socket part

Capacity: 5000 m of 77 mm dia. wire

Duty in hoist: 400 T at 0 – 18,7 m/min. on 1st layer

Duty dynamic braking: 90-480 T at 0-88 m/min.

- One spooling device for the AH drum, side load 60 tonnes

- One secondary winch with dividing flange socket part 138 tonnes pull, 170 tonnes dynamic braking at 70 m/min.

Capacity: approx. 1600 m of 8 in. dia. synthetic rope

- One spooling device for secondary winch, side load 20 tonnes

- One storage winch for spare tow wire, pull 10 tonnes

Capacity: 1600 m of 76 mm dia. wire rope

### Shark Jaws and Towing Pins

- Two anchor handling forks, Ø500 mm, SWL 500 tonnes

- Four towing pins with flaps for horizontal locking, Ø450 mm
- Twin stern rollers, 500 t SWL, L2\*2500, D3500

#### Machinery / Propulsion System

- Four main engines, each of MCR 3000 bkW at 750 rpm, flexibly mounted.
- Two reduction gears, twin-in single-out, PTO 2400 kW – 1200 rpm
- Two main propellers in nozzles, cpp, each 6000 kW / dia. 3900 mm / speed 147 rpm

#### Oil Purification Plant

- Two FO separators, self cleaning, automatic
- Four LO separators, self cleaning, automatic
- One portable LO purifier for thrusters

#### Fire Detection System

Addressable fire detection central

#### Video and monitoring system

A colour video camera system for surveillance of AHT winch and engine room.

Surveillance acc. to international ISPS

#### Fire Fighting System

- CO2 protection system for engine room / casing
- Local water mist protection system

#### External Fire Fighting System

- One Fi-Fi pump and stepup gear, driven by main engine
- Two Fi-Fi I monitors
- Self-protection water spray system

#### Electric Power Plant (450 Volt AC – 50-60 Hz)

- Two auxiliary generators, each of 875 kVA
- Two shaft alternators, each of 3000 kVA – 1200 rpm, floating voltage

- Emergency generator, 135 kW