



# BOURBON RAINBOW

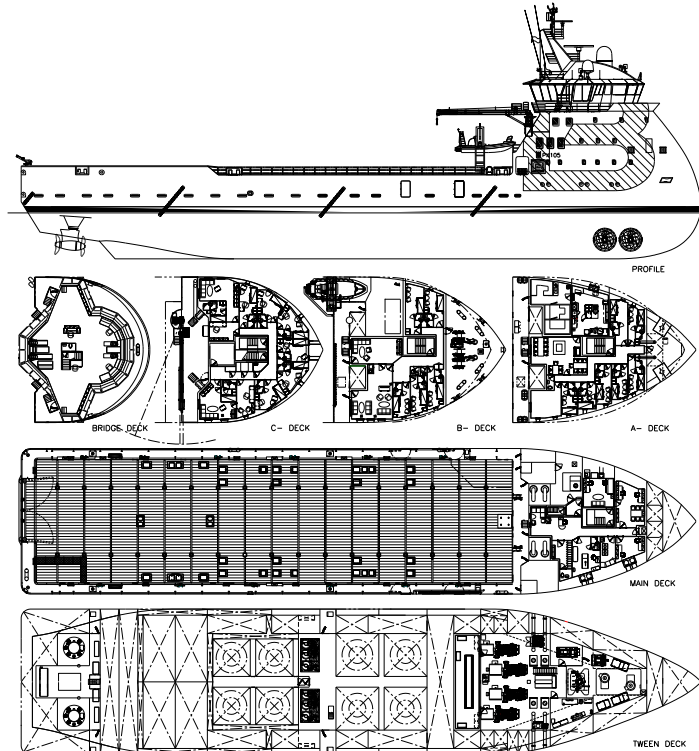
DP2 Diesel Electric Platform Support Vessel  
4,290 t deadweight



The BOURBON RAINBOW is a large platform supply vessel designed to meet the future demands of the offshore industry. The hull with ULSTEIN X BOW combined with diesel-electric propulsion systems ensure outstanding performances with regards to fuel consumption, sea-keeping, station-keeping, speed and cargo capacity.

The cargo systems ensure safe and efficient loading and discharging of the vessel. The Multi Application Cargo Solution (MACS) and product tank configurations give a major increase and flexibility in cargo capacity versus conventional offshore vessel design solutions.

She is arranged for oil recovery operations and designed to minimize the environmental impact according to DNV "CLEAN DESIGN" class notation. The fully capable dynamic positioning class II gives her an exceptional maneuverability.



PLATFORM SUPPLY VESSEL

## REGISTRATION

Vessel Name: **BOURBON RAINBOW**

Type: **PSV, Ulstein Design PX 105 MACS**

Year: **2013** — Flag: **NOR**.

Owner: **Bourbon Offshore Norway**

Builder: **Sinopacific Shipbuilding Group Co. Ltd (China)**

Class: **DNV + 1A1, SF, EO, DYNPOS-AUTR, CLEAN DESIGN, COMF-V(3), LFL\*, DK(+), HL(+), ICE C, BIS, OILREC, NAUT-OSV (A), Fire Fighter I**

Updated: 13-11-2019



# TECHNICAL SPECIFICATIONS

## PSV – BOURBON RAINBOW.



### ■ MAIN PARTICULARS

#### DIMENSIONS

Length overall:.....88.80 m  
Breadth moulded:.....19.00 m  
Depth:.....8.00 m  
Max Draft:.....6.60 m  
Deadweight:.....4,290mt  
Gross / Net tonnage: .....4,058 / 1,329

#### CAPACITIES

Free cargo deck area:.....(58.1m x16.1 m ) 976 m2  
Deck load: (10 mt/m2 - VCG 1 meter above main deck).....2,820 mt  
FO cargo / FO dom:.....1,914 m3 / 2,024 m3  
ORO: .....1,914 m3  
Fresh water cargo: (6 tanks).....767 m3  
Ballast/Drill water (WB tank).....4,491 m3

#### **MACS TANKS: (8 tks/ total: 925 m3).**

- 4 tks: (dry bulk/mud (LFL\*)/brine/FOC/GLY/base oil/ORO/slop/DW).....392 m3
- 4 tks: (mud/brine/FOC/GLY/base oil/ORO/slop/DW).....533 m3

PRODUCT TANKS: ( 6 tks/ total: 538 m3).

- 2 tks: (mud/brine/FOC/GLY/base oil/slop/ORO/DW).....184 m3
- 4 tks: (brine/FOC/GLY/base oil/Slop/ORO/DW).....354 m3

(The vessel can take a range of NLS products allowed for IMO Type 3 vessels, in total max: 800 m3).

LOW FLASH POINT LIQUID TANKS (LFL\*): (6 tks/ total: 450 m3).

- 6 tk: (meth/XYL/GLY/base oil/FOC/slop/ORO/DW/FW cargo in 2 tks).....450 m3

#### DELIVERY RATES

Fresh water pumps:.....2x 250 m3/h at 9 bar  
Ballast pumps:.....2x 250 m3/h at 9 bar  
Drill water pumps:.....2x 250 m3/h at 9 bar  
MACS cargo: (x8) 30 m3/h, 75 m3/h at 18 bar, 100 m3/h at 8 bar  
Chemicals (LFL\*) pumps: .....6x 75 m3/h at 9 bar  
Product pumps:.....6x 75 m3/h at 9 bar  
Product tanks: x2 agitators for each of the two aft tanks.  
MACS tanks system: x1 agitator for each tank.  
Boiler: .....1,600 kW

#### ACCOMMODATIONS

Accommodations for:.....25 pers.  
Single officer cabins (with private day room):.....2  
Single cabins:.....15  
2 man cabins:.....5  
Mess room:.....1  
Day rooms:.....2  
Galley, dry provisions, cooler & freezer room, stores, laundry.  
Offices, conference room, hospital, gymnasium.  
Separate engine control / instrument rooms on main deck.  
Incinerator room.  
Fully air-conditioned.

### ■ MACHINERY / PERFORMANCE

#### PROPULSION - MACHINERY

Main Diesel generators engines: .....4 x 1,700 kW  
Main propulsion: Twin propeller azimuth thrusters .....2 x 2,500 kW  
Bow tunnel thrusters:.....2 x 1,200 kW  
Bow retractable azimuth thruster:.....1 x 850 kW  
Auxiliary generator:.....531 kVA, 3x 440V, 60 Hz  
Emergency generator:.....189 kW 3x 440V, 60 Hz

#### SPEED / CONSUMPTION

Maximum speed sea trial (100%): .....27.8 t /day @ 15.5 knots  
Max speed: .....21.3 t /day @ 15.5 knots  
Service speed: .....13 t /day @ 12.5 knots  
Economic speed: .....9.5 t /day @ 11 knots  
Consumption harbor: .....2t /day

### ■ EQUIPMENT & ELECTRONICS

#### DECK EQUIPMENT

Tuggers:.....2x 15 mt pull  
One double hydraulic combined windlass / mooring winch.  
Deck cargo lashing winches: .....12x 10 mt securing winch (x6 each side)  
Three passive roll reduction tanks.  
One telescopic boom crane:.....2 mt @17 m

#### SAFETY EQUIPMENT

Fire Fighting (Fifi 1): ....1 pump 3,400 m3/h, 2 monitors 1,200 m3 each  
Foam. Water spray protection.  
Alarm, monitoring and control system for periodically unattended machinery space.  
Life saving arrangement: life rafts, life jackets, life buoys, immersion suits  
1 fast rescue boat (for 10 pers) with davit.  
Medical package for 250 survivors.

#### ELECTRONICS

##### - NAVIGATION

2 radars with ARPA, 2 radars transponders, 2 DGPS,  
3 gyrocompasses, 1 magnetic compass, 1 echo sounder,  
1 speed log, 1 autopilot, Navtex, VDR, AIS, SSAS,  
Search lights x3, night search system x3.

##### - COMMUNICATION

1 radio system compliant with GMDSS A3 rules.  
MF/HF radio, DSC receiver, VHF/UHF/Portable,  
Inmarsat, Vsat, Satcom C x2, Fleet 77, SevSat, Intercom system.

Loading computer: Autoload.

#### DYNAMIC POSITIONING SYSTEM

Type: KONGSBERG SDP 21.....Class DP2  
2 operation consoles, 4 references system, VRU/VMU x2.  
Sensors and monitoring as per class II requirements.

*All particulars believed to be correct but not guaranteed*

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