



# BOURBON CORMORANT

Seismic Support Vessel  
Hybrid propulsion

50 Metric ton bollard pull



BOURBON CORMORANT, has been designed by Offshore Ship Designers.

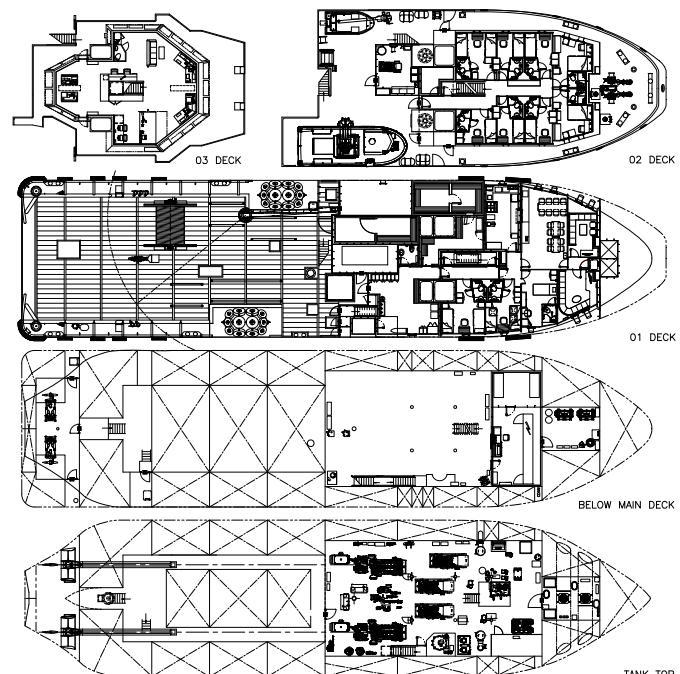
This hybrid propulsion vessel operates as a support vessel for a seismic mother ship and can be runned following three propulsion modes.

- Diesel-mechanical mode will be used in sailing condition.
- Diesel-electrical mode, in escorting condition.
- Boost mode, in towing condition.

The vessel can perform for the following duties:

- Fuel delivery (MDO and HFO).
- General supplies, with equipment stored on deck.
- Transport and supply food.
- Back-load of waste and sludge.
- Accommodation and transfer for up to 12 passengers.
- Tow the seismic vessel.
- Emergency recovery of seismic gear.
- Chasing activity for seismic survey.
- Collection of prospect data characteristics for seismic survey.

Photo: « BOURBON PETREL » sistership of  
« BOURBON CORMORANT »



SEISMIC SUPPORT VESSEL

## REGISTRATION

Vessel Name: **BOURBON CORMORANT.**

Type: **Seismic support vessel. IMT 952**

Year: **2014**

Flag: **Cyprus.**

Owner: **BOURBON.**

Builder: **Grandweld Shipyards, DUBAI.**

Class: **BV 1 + HULL, + MACH, + AUT-UMS, MONSHAFT, Tug, Supply Vessel,**

**Special Service / Supply at Sea for Seismographic Research Support,  
flash point > 60° C - Oil Product, Unrestricted navigation.**

Updated: 28-08-2014





# TECHNICAL SPECIFICATIONS

## SSV - BOURBON CORMORANT.



### MAIN PARTICULARS

#### DIMENSIONS

Length overall: .....53.80 m  
 Breadth moulded: .....13.00 m  
 Depth: .....6.30 m  
 Max / Design draft: .....4.80 m / 4.00 m  
 Deadweight: (approx @ max draft).....1,372 mt  
 Bollard pull @ Diesel - mechanical mode: .....40 mt  
 Bollard pull @ boost mode: .....50 mt  
 Gross / Net tonnage: .....1,358 / 407

#### CAPACITIES

Deck area: (5 mt/m<sup>2</sup>).....(23,00x10,20 m ) approx. 230 m<sup>2</sup>  
 Max Deck cargo: .....205 mt  
 Domestic MDO: (@ 97 %).....271 m<sup>3</sup>  
 Cargo MDO / Cargo HFO: (@ 97%).....77 m<sup>3</sup> / 894 m<sup>3</sup>  
 Deliverable MDO / HFO cargo: .....970 m<sup>3</sup>  
 Fresh water:.....117 m<sup>3</sup>  
 Ballast water:.....519 m<sup>3</sup>  
 Lub oil: .....10 m<sup>3</sup>  
 Thermal oil: .....4 m<sup>3</sup>  
 Cargo slops: .....10 m<sup>3</sup>

#### DELIVERY RATES

Cargo HFO / MDO: .....2x 200 m<sup>3</sup>/h at 60 m  
 Cargo MDO: .....50 m<sup>3</sup>/h at 60 m  
 Cargo fresh water: .....50 m<sup>3</sup>/h at 60 m  
 Ballast / Fire pump: .....75 m<sup>3</sup>/h at 50 m  
 Bilge system: .....75 m<sup>3</sup>/h at 50 m  
 Main cargo fuel oil tanks are equipped with heating system:  
 500 kW thermal oil heater (capable of heating 894 m<sup>3</sup> HFO from 35°C to 50°C in less than 72 hours).

#### ACCOMMODATIONS

Accommodations for: .....24 pers. (including 12 passengers)  
 Single cabins: .....2  
 2 man cabins: .....5  
 4 man cabins: .....3  
 1 sickbay cabin: .....1  
 Mess room, 2 day rooms, laundry, galley, dry provisions, freezer & cargo reefer rooms (+4°C & -21°C), stores, crew changing, Seismic recording room.  
 Fully air-conditioned.

### MACHINERY / PERFORMANCE

#### PROPULSION - MACHINERY

Main Diesel engines: .....2x 1,575 bhp  
 Auxiliary Diesel generators: .....3x 550 kW  
 Electric motor plant: .....2x 350 kW  
 Main propulsion: .....2x Hybrid propulsion package on CP propellers  
 Bow tunnel thrusters: .....2x 300 kW  
 Emergency generator: .....1x 95 kW

#### SPEED / CONSUMPTION (@ 4.00m design draft)

Diesel-Mechanical mode: .....11.8 t/day @ 11.0 knots  
 Diesel-Electrical mode: .....3.0 t/day @ 6.0 knots  
 Boost mode: .....15.4 t/day @ 11.5 knots

### EQUIPMENT & ELECTRONICS

#### DECK EQUIPMENT

Windlass: .....1x 10 mt pull @ 11 m/mn  
 Capstan (2 variable speeds): .....5 t @ 15m/mn & 10 t @ 10 m/mn  
 Towing hook: .....70 t SWL  
 Knuckle boom deck crane (electro-hydraulic): .....3 mt @ 12 m  
 One A-frame / davit for Workboat: ...10 t lifting capacity @ 30 m/mn

#### SPECIAL EQUIPMENT:

- Fuel hose storage reel: 180 m of 4 " hose cap. (TODO connection).
- Storage winch for In-line bunkering distance line: 120 m of polypropylene line capacity.
- Blister and moonpool for seismic instruments, storage reel cradles, Basket for towing rope (200m of 80mm/ MBL 137 t), TS DIP winch.
- Fenders Yokohama: 2x of 2.00m dia x 4.00m length & 2x of 1.00m dia x 2.00m length.
- Streamer winch power supply: 440 V, 3P, 250 A, 60 Hz.
- Main deck pre-structured to receive foundation for streamer winch based on 20' ISO container (weight: 40 t).
- Reefer sockets for containers.

#### ELECTRONICS

##### NAVIGATION

2 radars with ARPA, 1 DGPS, 1 gyrocompas,  
 1 magnetic compas, 1 autopilot, 1 echo sounder, 1 speed log,  
 1 ECDIS.

##### COMMUNICATION

1 radio system compliant with GMDSS A3 rules:  
 - 2 VHF, 2 Inmarsat C, V-Sat, MF radio system, Navtex with printer,  
 - weather fax, AIS.  
 1 EPIRB, 1 Fleet broadband 500, 1 Inmarsat mini-C, 2 VHF, 2 UHF.

#### SAFETY EQUIPMENT

Life saving arrangement, 6 liferafts with capacity 12 pers.  
 1 fast rescue boat (6 pers) outboard engine 25 hp with davit.

*All particulars believed to be correct but not guaranteed*