



BOURBON TERN

Seismic Support Vessel
Hybrid propulsion

50 Metric ton bollard pull



BOURBON TERN, has been designed by Offshore Ship Designers.

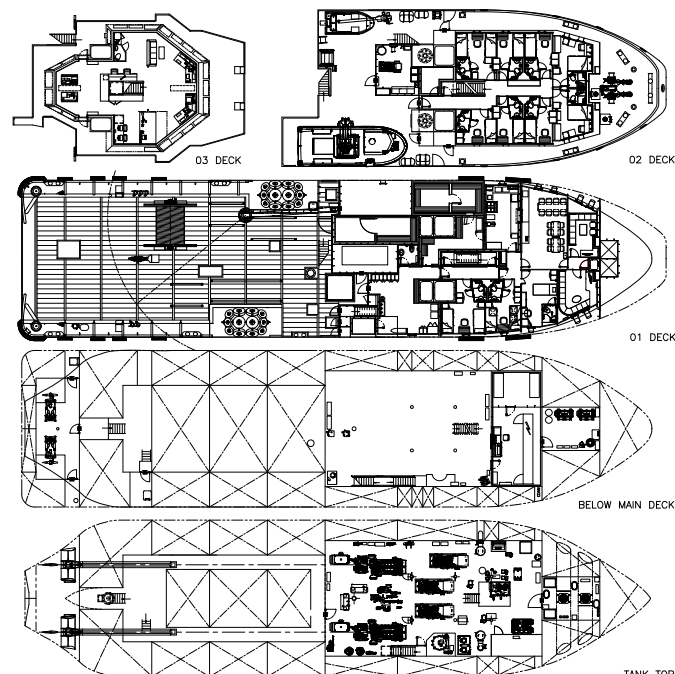
This hybrid propulsion vessel operates as a support vessel for a seismic mother ship and can be runned following three propulsion modes.

- 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 TERN »



SEISMIC SUPPORT VESSEL

REGISTRATION

Vessel Name: **BOURBON TERN.**

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 TERN



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/m²).....(23,00x10,20 m) approx. 230 m²
 Max Deck cargo:205 mt
 Domestic MDO: (@ 97 %).....271 m³
 Cargo MDO / Cargo HFO: (@ 97%).....77 m³ / 894 m³
 Deliverable MDO / HFO cargo:970 m³
 Fresh water:.....117 m³
 Ballast water:.....519 m³
 Lub oil:10 m³
 Thermal oil:4 m³
 Cargo slops:10 m³

DELIVERY RATES

Cargo HFO / MDO:2x 200 m³/h at 60 m
 Cargo MDO:50 m³/h at 60 m
 Cargo fresh water:50 m³/h at 60 m
 Ballast / Fire pump:75 m³/h at 50 m
 Bilge system:75 m³/h at 50 m
 Main cargo fuel oil tanks are equipped with heating system:
 500 kW thermal oil heater (capable of heating 894 m³ 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