



# BOURBON LIBERTY 300 SERIES

Anchor Handling Tug Supply Vessel

DP2 - 85 t Bollard Pull

  
**BOURBON**  
Building together a sea of trust

# BOURBON LIBERTY 300 SERIES

## Class

BV 1\*HULL\*MACH, Unrestricted Navigation, Tug / Supply Vessel, LHNS, Oil Product, Fi-Fi 1, Water spraying, Special Service, AH, \*AUT-UMS, \*Dynapos-AM/AT R, Cleanship (1), Protected FO Tank, Oil recovery ship

## ACCOMMODATIONS

► Accommodations	26 pers.
► Single cabins	4
► 2 x men cabins	11
► Mess room (1), Day rooms (2), Galley (1), Office (1), Hospital/Sick Bay (1 Berth)	
► Fully air-conditioned	

## MAIN PARTICULARS

	(US)	(Metric)
Designer	Shanghai Design Associates	
Builder	Sinopacific	
Lenght overall (ft/m)	215.71	65.8
Breadth moulded (ft/m)	52.49	16
Depth (ft/m)	19.68	6
Design Draft (ft/m)	14.11	4.3
Max. Draft (ft/m)	16.63	5.1
► Deadweight (st/mt) (approx.)	<b>2,095</b>	<b>1,901</b>
Gross tonnage (st/mt) (approx.)		2,210 gt
Bollard Pull (lt/mt)	83.66	85

## MACHINERY / PERFORMANCE

### PROPULSION - MACHINERY

Main Diesel Generators (DG) engines	3 x 2,000 kW at 1,800 rpm
	3Ph/480VAC/60 Hz
Propellers	2 x 1,685 kW L - drive FPP in nozzle, 360° azimuth thrusters
	1 x 1,685 kW L-drive FPP in nozzle, fixed thrusters
Bow thrusters	2 x 560 kW FPP thrusters
Emergency generator / dedicated harbor generator	1 x 276 kW

### SPEED CONSUMPTION

Maximum speed - 13.4 knots	22.0 t/day
Service speed - 12 knots	14.7 t/day
Service speed - 10 knots	8.8 t/day
Eco speed - 8 knots	6.2 t/day
DP Station keeping	5.0 t/day
Standby at sea	2.5 t/day
Standby in port - Harbour generator	0.8 t/day

(Speed and consumption at 4.30 m design draft, clean hull, calm sea, no sea margin)

### COMBINED CAPACITIES (100%)

	(US)	(Metric)
► Free cargo deck area (sq.ft/m <sup>2</sup> )	<b>4,306</b>	<b>400</b>
Deck load (st/mt)	1,102	1,000
Fuel Oil (USG/m <sup>3</sup> )	198,657	752
Fresh water (USG/m <sup>3</sup> )	117,028	443
Ballast/Drill water (USG/m <sup>3</sup> )	288,211	1,091
► Liquid Products Tanks (USG/m <sup>3</sup> )	<b>182,807</b>	<b>692</b>
Dry Bulk/ Cement (USG/m <sup>3</sup> )	43,815	193
Foam (USG/m <sup>3</sup> )	2,905	11

### DELIVERY RATES

Fuel oil	(US)	2 x 660 USG/min at 7 bars
	(Metric)	2 x 150 m <sup>3</sup> /h at 70 m
Fresh water	(US)	660 USG/min at 7 bars
	(Metric)	150 m <sup>3</sup> /h at 70 m
Drill water / Ballast	(US)	660 USG/min at 7 bars
	(Metric)	150 m <sup>3</sup> /h at 70 m
Dry bulk (compressor flow)	(US)	2 x 97 USG/min at 6 bars
	(Metric)	2 x 22 m <sup>3</sup> /min at 60 m
Liquid mud	(US)	2 x 330 USG/min at 18 bars
	(Metric)	2 x 75 m <sup>3</sup> /h at 180 m

Liquid mud tanks fitted with hydraulic agitators and fixed hot water washing system

## EQUIPMENT & ELECTRONICS

### DECK EQUIPMENT

	(US)	(Metric)
Windlass (lt/mt)	1 x 10.5	1 x 10.7
Tugger winches (lt/mt)	2 x 9.8	2 x 10
Capstan (lt/mt)	2 x 4.9	2 x 5
Telescopic boom crane [lt/mt] x 1 at [ft/m]	3	3
	52.5	16

### AH/Towing Winch

Towing / Anchor-handling electro-hydraulic high pressure winch with 2 drums in waterfall arrangement each equipped with:

- Drum size: 900/2,250 mm dia. x 1,800 mm length
- Drum capacity: 1,500 m x 56 mm and 1,100 m x 64 mm steel wire.
- Rated pull each: 150 t on the 1st layer at 0 to 8.5 m /min
- Brake holding load, 250 t on 1 st layer
- Cable lifters: 1 x 2" 1/2 + 1 x 3" chains
- Stern roller (US) 4.9 ft dia. x 13.1 length (246 t 1 st SWL)
- (Metric) 1,500 mm dia. x 4,000 mm length (250 t SWL)

### DYNAMIC POSITIONING SYSTEM

#### ► DP Class 2

System consists of 2 DGPS, 1 Radascan

### COMMUNICATION

1 radio system compliant with GMDSS A3 rules  
Vsat, FBB500, Inmarsat C  
Email/IP voice facilities

### SAFETY EQUIPMENT

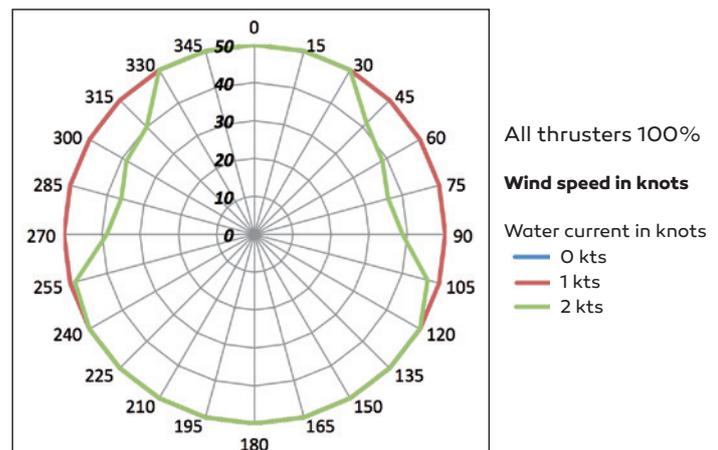
	(US)	(Metric)
► Fire-fighting Class 1 (FIF1) with foam and waterspray protection		
Pumps [USG/min-m <sup>3</sup> /h] x 2	7,265 (each)	1,650 (each)
Monitors [USG/min-m <sup>3</sup> /h] x 2	5,283 (each)	1,200 (each)

### LIFE SAVING ARRANGEMENT

Vessel fitted with safety equipment according to SOLAS Regulation 1 Fast Rescue Boat (for 10 persons) with davit  
6 Life rafts (3 on each side), each life raft is able to accommodate 16 persons  
Life jackets, life buoys, immersion suits

### DP CAPABILITY PLOT

Tremendous station keeping capability  
Safer operations  
Increased operational time  
Exceptional maneuverability in adverse weather conditions



All particulars believed to be correct but not guaranteed

# COMMITTED TO EXCELLENCE IN OPERATIONS

BOURBON's vision is to be the preferred company in offshore marine services for the benefit of our clients, our employees and all stakeholders.

## ► FOCUS ON OPERATIONAL EXCELLENCE

As a marine service provider leader, BOURBON operates a modern and fuel efficient fleet. With an industrial and centralized organization through 6 Repair Centers, vessels' reliability and availability is ensured. To help meet the highest safety standards, BOURBON systems are fully aligned with OCIMF standards and crews benefit of an active skills management process and training to provide tailor-made solutions to meet the demands of clients.

Fitted with standardized equipment, the BOURBON fleet offers to clients fuel efficient and safety solutions through:

- Diesel-electric propulsion
- Oil recovery, fire-fighting and stand-by rescue capabilities

## ► A CLIENT DEDICATED ORGANIZATION

BOURBON's "Client Satisfaction Chain" focuses on lasting relationship based on trust and service quality through a single point of contact: the Contracts Manager.



## ► A SERVICE DELIVERED BY LOCAL TALENTS

BOURBON relies on strong local partnerships and support to comply with local requirements and flagging. Local content is illustrated via:

### ►► Vessels

Designed to be logistics friendly and suitable for local harbors.

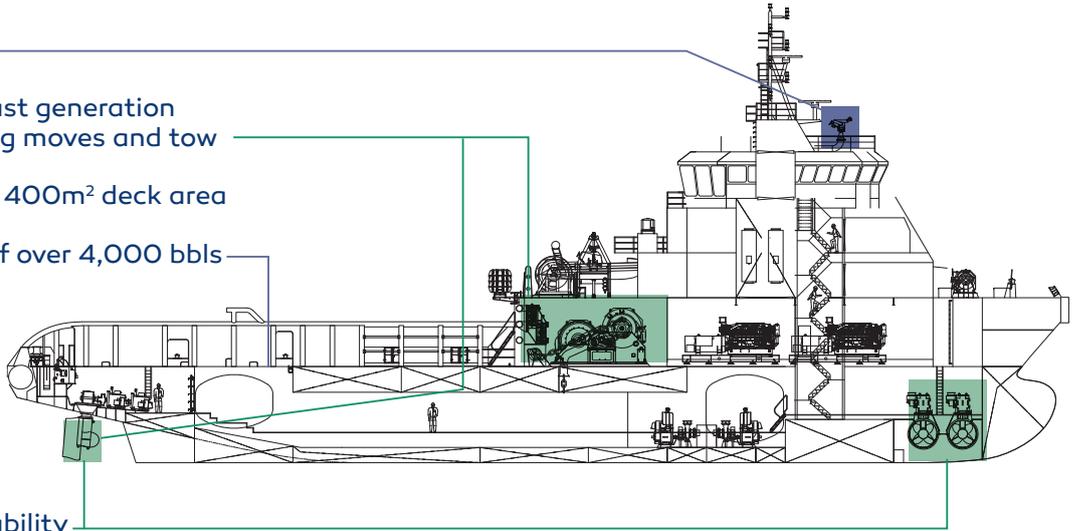
### ►► Collaborators

With 70% of local content and more than 83 nationalities, the Group focuses on local training through its 15 BOURBON Training Centers.

# DIFFERENTIATING FACTORS

## FIFI 1

- Able to maneuver the last generation of Jack Up rigs during rig moves and tow
- Higher cargo capacity - 400m<sup>2</sup> deck area  
30% more underdeck  
Liquid mud capacities of over 4,000 bbls



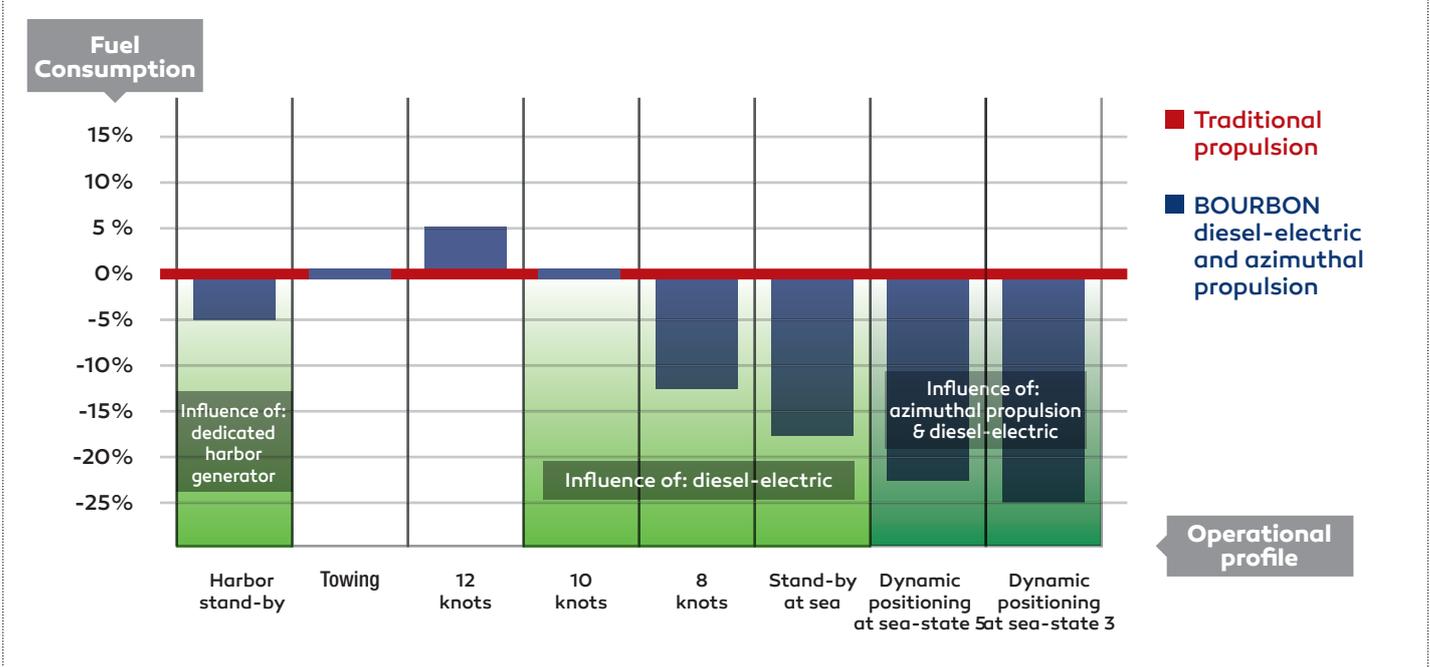
- DP2 Capabilities  
Exceptional maneuverability

# BOURBON'S EFFICIENT FUEL MANAGEMENT

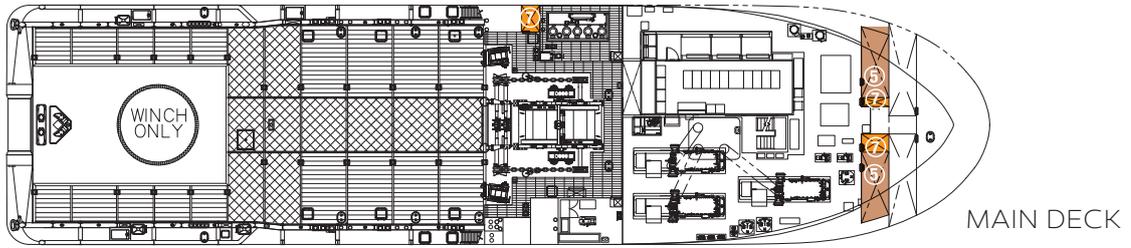
<b>APPROPRIATE VESSELS' TECHNOLOGY</b>
Vessels' design, diesel-electric with azimuthal propulsion
<b>COMPETENCE &amp; EXPERTISE</b>
Crew dedicated training and professional vessels' management
<b>FUEL REPORTING &amp; ANALYSIS</b>
Accurate database and rigorous follow-up
<b>JOINT MANAGEMENT WITH CLIENT</b>
Continuous operational partnership based on mutual best practices

Average total fuel savings  
**up to 30%**  
(up to 1,000,000 USD savings per year)

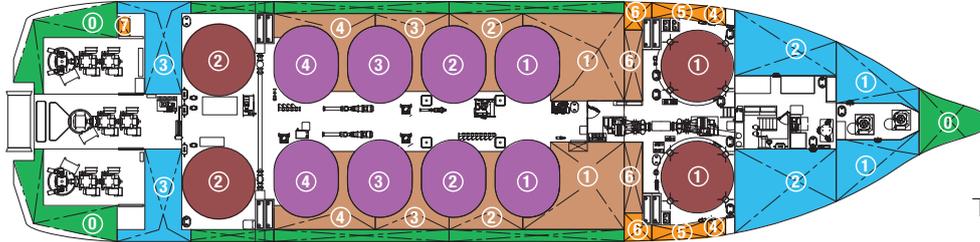
## Traditional AHTS propulsion compared to BOURBON's standardized propulsion



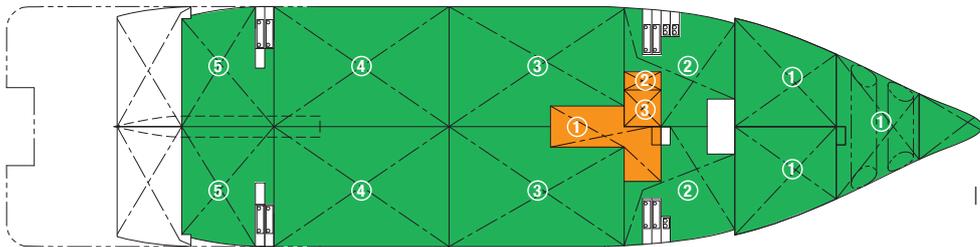
Total amount of cargo vessel is able to carry is equivalent to the deadweight of vessel



MAIN DECK



TANK DECK



INNER BOTTOM

## OUTSTANDING TANKS CAPACITIES

(C) center, (P) portside, (S) starboard

BALLAST WATER TANKS			FRESH WATER TANKS			LIQUID PRODUCT TANKS		
100% CAPACITIES			100% CAPACITIES			100% CAPACITIES		
0	Water Ballast Forepeak (C)	46.81 m <sup>3</sup>	1	Fresh Water (P)	52.02 m <sup>3</sup>	1	Liquid Product (P)	86.56 m <sup>3</sup>
0	Water Ballast/Aft peak (P)	49.24 m <sup>3</sup>	1	Fresh Water (S)	52.02 m <sup>3</sup>	1	Liquid Product (S)	86.56 m <sup>3</sup>
0	Water Ballast/Aft peak (S)	49.24 m <sup>3</sup>	2	Fresh Water (P)	75.74 m <sup>3</sup>	2	Liquid Product (P)	86.56 m <sup>3</sup>
1	Water Ballast /Drill Water (C)	39.32 m <sup>3</sup>	2	Fresh Water (S)	102.22 m <sup>3</sup>	2	Liquid Product (S)	86.56 m <sup>3</sup>
1	Water Ballast /Drill Water (P)	88.88 m <sup>3</sup>	3	Fresh Water (P)	80.48 m <sup>3</sup>	3	Liquid Product (P)	86.56 m <sup>3</sup>
1	Water Ballast /Drill Water (S)	88.88 m <sup>3</sup>	3	Fresh Water (S)	80.48 m <sup>3</sup>	3	Liquid Product (S)	86.56 m <sup>3</sup>
2	Water Ballast /Drill Water (P)	37.78 m <sup>3</sup>				4	Liquid Product (P)	86.52 m <sup>3</sup>
2	Water Ballast /Drill Water (S)	37.92 m <sup>3</sup>				4	Liquid Product (S)	86.52 m <sup>3</sup>
3	Water Ballast /Drill Water (P)	134.86 m <sup>3</sup>				8 Liquid Product Tanks (mud, brine, base oil, oil recovery)		
3	Water Ballast /Drill Water (S)	134.86 m <sup>3</sup>						
4	Water Ballast /Drill Water(P)	137.44 m <sup>3</sup>						
4	Water Ballast /Drill Water(S)	137.44 m <sup>3</sup>						
5	Water Ballast /Drill Water (P)	54.12 m <sup>3</sup>						
5	Water Ballast /Drill Water (S)	54.12 m <sup>3</sup>						
<b>TOTAL = 1,090.91 m<sup>3</sup></b>			<b>TOTAL = 442.92 m<sup>3</sup></b>			<b>TOTAL = 692.40 m<sup>3</sup></b>		

FUEL OIL TANKS			DRY BULK TANKS			MISCELLANEOUS TANKS		
100% CAPACITIES			100% CAPACITIES			100% CAPACITIES		
1	Fuel Oil (P)	150.06 m <sup>3</sup>	1	Dry Bulk (S)	55.70 m <sup>3</sup>	1	Oily water	20.79 m <sup>3</sup>
1	Fuel Oil (S)	146.02 m <sup>3</sup>	1	Dry Bulk (P)	55.70 m <sup>3</sup>	2	Dirty oil	3.25 m <sup>3</sup>
2	Fuel Oil (P)	54.01 m <sup>3</sup>	2	Dry Bulk (S)	40.90 m <sup>3</sup>	3	Sludge	5.74 m <sup>3</sup>
2	Fuel Oil (S)	54.01 m <sup>3</sup>	2	Dry Bulk (P)	40.90 m <sup>3</sup>	4	Foam (P)	5.71 m <sup>3</sup>
3	Fuel Oil (P)	54.01 m <sup>3</sup>				4	Foam (S)	5.71 m <sup>3</sup>
3	Fuel Oil (S)	54.01 m <sup>3</sup>				5	Sewage (P)	14.66 m <sup>3</sup>
4	Fuel Oil (P)	66.30 m <sup>3</sup>				5	Sewage (S)	14.66 m <sup>3</sup>
4	Fuel Oil (S)	68.73 m <sup>3</sup>				6	Fuel Oil Overflow (P)	12.47 m <sup>3</sup>
5	Fuel Oil Day (P)	24.02 m <sup>3</sup>				6	Fuel Oil Overflow (S)	12.47 m <sup>3</sup>
5	Fuel Oil Day (S)	24.02 m <sup>3</sup>				7	Lub Oil me	7.88 m <sup>3</sup>
6	Fuel Oil Settling (P)	26.81 m <sup>3</sup>				7	Lub Oil bt	3.94 m <sup>3</sup>
6	Fuel Oil Settling (S)	26.81 m <sup>3</sup>				7	Lub Oil deck mach	4.66 m <sup>3</sup>
7	Fuel Oil Emergency Generator	3.36 m <sup>3</sup>				7	Lub Oil z-drive	1.28 m <sup>3</sup>
<b>TOTAL = 752.17 m<sup>3</sup></b>			<b>TOTAL = 193.20 m<sup>3</sup></b>			<b>TOTAL = 113.22 m<sup>3</sup></b>		

Total amount of cargo vessel is able to carry is equivalent to the deadweight of vessel



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