

BOURBON EXPLORER 500 Series

DP2 Diesel Electric Platform Support Vessel



LIQUID & SPECIAL PRODUCTS
TRANSPORT CAPACITY



DECK TRANSPORT
CAPACITY



ACCOMMODATION
CAPACITY



LOW
EMISSIONS

BOURBON EXPLORER 508 / 510 / 511 / 512 / 513 / 514 / 515 / 516 / 518 / 519 / BAHTERA PERTIWI / BAHTERA PERMAI / SURF PERDANA



REGISTRATION

Vessel Name	BOURBON EXPLORER 500 Series	Builder	SINOPACIFIC - China
Type	PSV	Year	2014 / 2015
Owner	BOURBON	Flag	RIF / SVG
Class	BV I + HULL, + MACH, Unrestricted navigation, Supply Vessel, LHNS, WS, Oil product, Fire-fighting Ship 1, Water prying, + AUT-UMS, + DYNAPOS-AM/AT R, CLEANSHIP (7+), Protected FO tank, COMF-NOISE 3, COMF-VIB 3, Oil Recovery Ship, Special Service Standby Rescue Vessel (200 Survivors, Tropical Area).		

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Specifications are provided for information purposes only, are non-contractual, and may be subject to change without prior notice.

TECHNICAL SPECIFICATIONS

BOURBON EXPLORER 500 Series



MAIN PARTICULARS

DIMENSIONS

Length overall 78.25 m	Max Draft 6.30 m
Breadth moulded 17.20 m	Deadweight 3,703 mt
Depth 7.80 m	Gross / Net tonnage 3,147 / 1,126

CAPACITIES

Deck area (5 mt/m ²)	(51,00 x 14,20 m) 716 m²
Max Deck cargo @ 1.00m	1,850 mt
Fuel oil	1,110 m³
Drill water/Ballast water	1,500 m³
Fresh water	640 m³
Liquid mud (8 tanks dedicated)	total: 1,133 m³
Dry Bulk / Cement (4 tanks dedicated)	total: 300 m³
Special product: @100%	368 m³
Foam	18 m³

DELIVERY RATES

Fuel oil 2x 150 m³ / h at 90 m	Bulk material 2x 22 m³ / min at 90 m
Fresh water 150 m³ / h at 90 m	Liquid mud 2x 100 m³ / h at 160m + 1x 100 m³ / h at 150m
Drill water/ballast 200 m³ / h at 90 m	Special product 4 x 75 m³ / h at 90 m
Liquid mud tanks fitted with hydraulic agitators and fixed hot water washing system. Mud tanks with self cleaning system.	

ACCOMMODATIONS

Accommodations for 50 pers. incl. crew	Single cabins 12
2 man cabins 19	1 sickbay cabin 1
Mess room, 2 day rooms, meeting room, 2 offices, laundry, galley, stores, change room, gymnasium. Fully air-conditioned, compliant MLC 2006.	

MACHINERY / PERFORMANCE

PROPULSION - MACHINERY

Main generators	4 x 1,360 kW
Main propulsion	2 x 2,000 kW Z-drive FPP, azimuth thrusters
Bow thrusters	2 x 1,000 kW CPP
Emergency / Harbour generator	1 x 250 kW/440 V-60 Hz

SPEED / CONSUMPTION

Maximum (100 % rpm)	23.8 t/day @ 14.2 knots
Service 1 (3 DG @ 80 %)	18.8 t/day @ 13.3 knots
Service 2 (2 DG @ 80 %)	12.5 t/day @ 11.8 knots
(As per the design specifications and standard conditions)	

EQUIPMENT & ELECTRONICS

DECK EQUIPMENT

Windlasses: 8.6 mt each, 2 electric comb. Windlass/ Mooring winches - Chain 42 mm Grade 3.	
Tugger winches	2 electric winches, 10 mt pull each
Capstan	2 x 8 mt each
Deck provisions crane	1 x 2.5 mt @ 14 m
■ OTHER EQUIPMENT	
Fuel oil purifier	1 x 1,950 l/h, self cleaning type
Oily water separator	1x 1m³/h, IMO approved type
Sewage treatment plant	1 IMO/MARPOL approved type
Inert gas generator	1 x 27 Nm³/h
Boiler	1 x 800 kW

DYNAMIC POSITIONING SYSTEM

Type: KONGSBERG K.MASTER	Class DP2
3 DGPS, 1Radius, HIPAP ready	
Sensors and monitoring as per class II requirements	

SAFETY EQUIPMENT

Fire Fighting (Fifi 1)	2 pumps 1,600 m³/h 2 monitors 1,200 m³/h
Water spray protection. Foam.	
Life saving arrangement, 6 liferafts with capacity 25 pers.	
D1 Fast rescue boat with davit: 6 pers. (Cum-workboat 15 pers.)	
Stand-by rescue equipment for 200 survivors (tropical area)	

ELECTRONICS

■ NAVIGATION

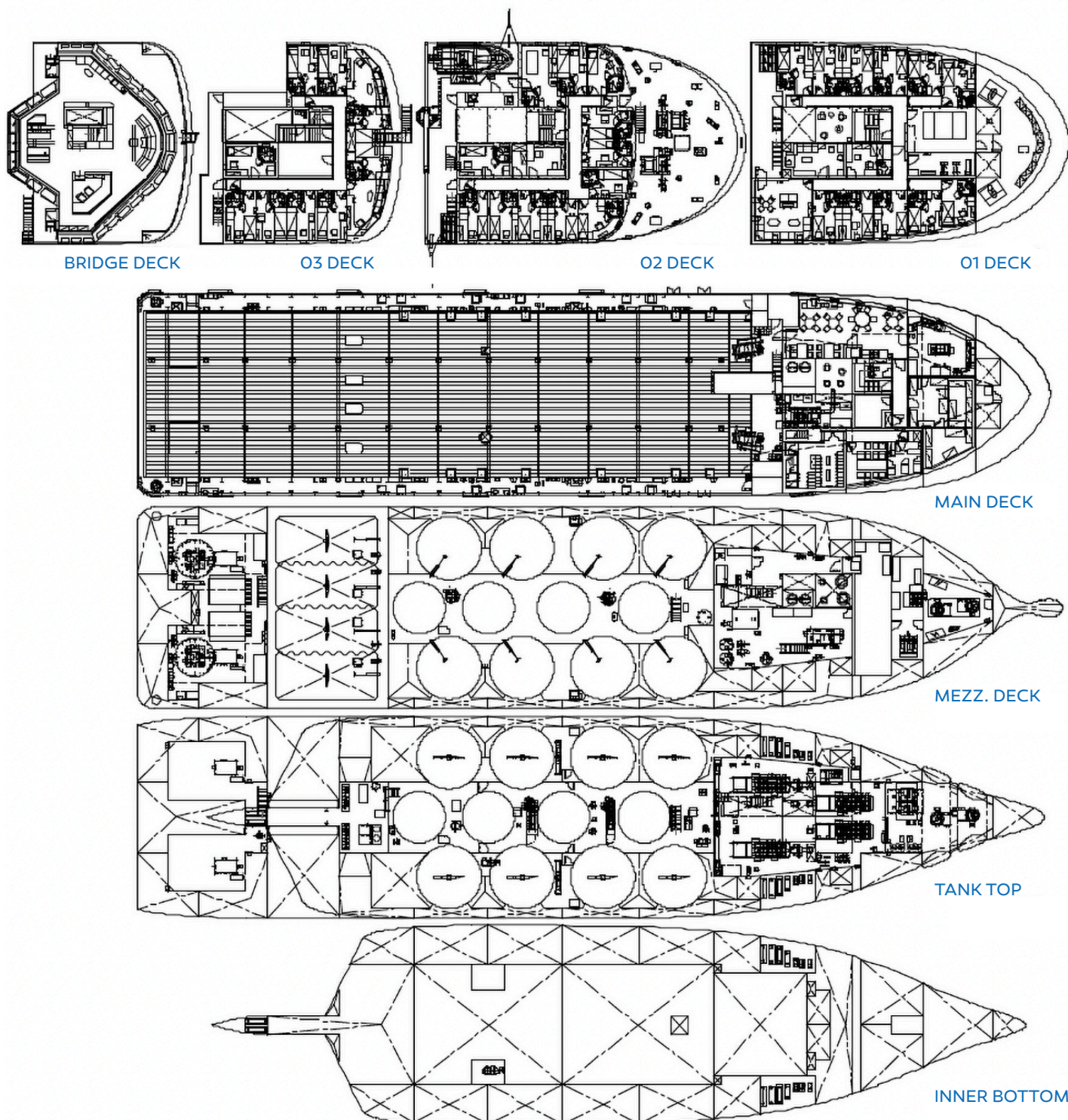
2 radars with ARPA, 2 radars transponders, 3 gyrocompasses, 1 echo sounder, 1 speed log, 1 autopilot

■ COMMUNICATION

1 radio system compliant with GMDSS A3 rules
Vsat, Fleet Broad Band 500, Inmarsat C
E-mail/IP voice facilities

GENERAL ARRANGEMENT

BOURBON EXPLORER 500 Series



DP CAPABILITY PLOT

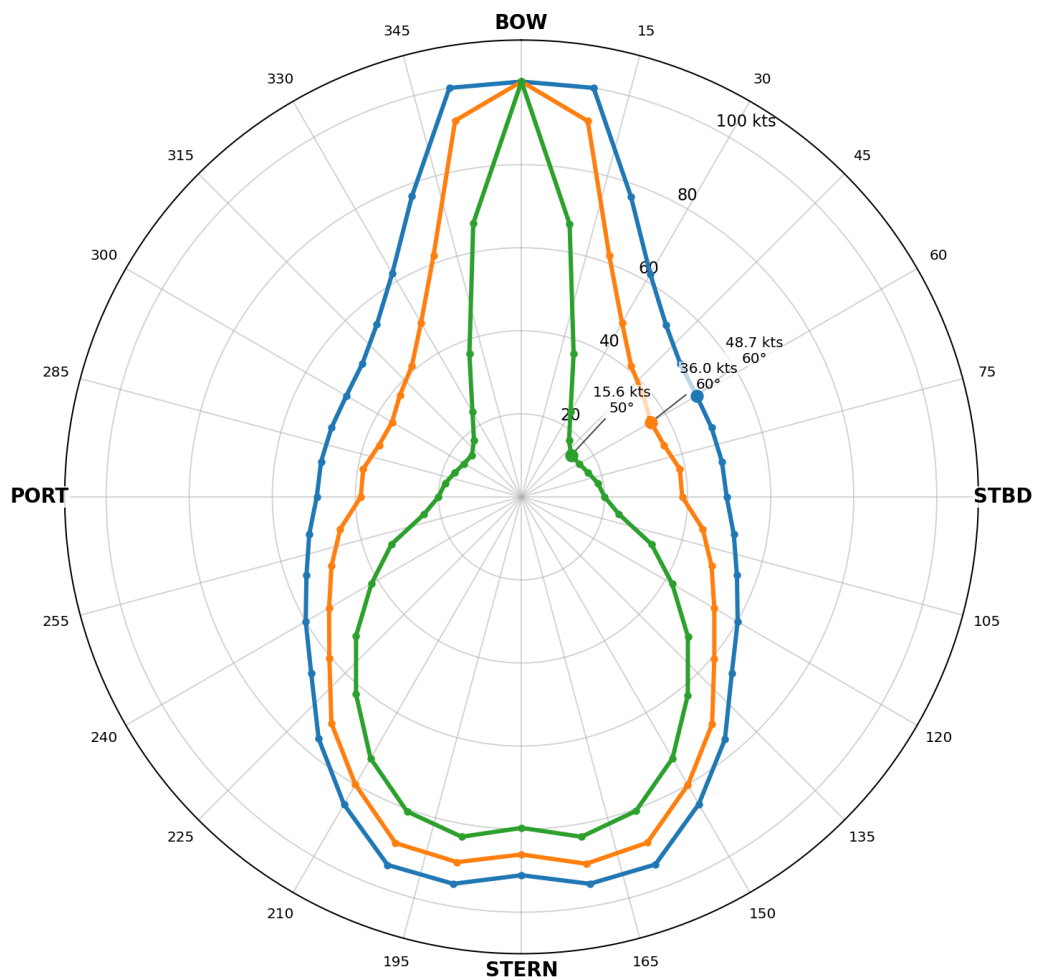
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DYNAMIC POSITIONING

- DP2 offshore support vessel — IMO Equipment Class 2
- Bureau Veritas class notation: DYNAPOS AM/AT R
- Kongsberg K-Pos dynamic positioning system
- Four diesel generators — split-bus configuration, two per bus section
- Thrusters: 2 × 2,000 kW stern azimuth + 2 × 1,000 kW bow tunnel
- Position references: 3 DGNSS + 1 or 2 relative PRS
- Redundant gyrocompasses, motion reference units and wind sensors
- Class-approved DP FMEA
- DP assurance: Annual DP Trials and five-yearly FMEA Verification Trials

Bourbon Explorer 500 Series / BE518 — Kongsberg DP Capability Overlay
DP High Power, 4 Generators, all thrusters active — Current 1 / 2 / 3 kts



Source: Kongsberg StatCap Report — Bourbon Explorer 518, Cases 14/15/16. Limiting 1-minute mean wind speed at 10 m above sea level.

CAPACITY TABLE

BOURBON EXPLORER 500 Series



NO.	DESCRIPTION	VNET	DRY BULK	DW/WB	FRESH WATER	LIQUID MUD	SPECIAL PRODUCT	FUEL OIL	FOAM	LUBE OIL
		m3	m3	m3	m3	m3	m3	m3	m3	m3
NO.01	DRY BULK TANK 1	72,967	72,967							
NO.02	DRY BULK TANK 2	72,967	72,967							
NO.03	DRY BULK TANK 3	72,967	72,967							
NO.04	DRY BULK TANK 4	72,967	72,967							
NO.05	FORE PEAK B.W. TANK	81,498		81,498						
NO.06	BALLAST WATER TANK 1 C	92,69		92,69						
NO.07	BALLAST WATER TANK 2 P	53,36		53,36						
NO.08	BALLAST WATER TANK 2 S	53,36		53,36						
NO.09	BALLAST WATER TANK 2 C	153,771		153,771						
NO.10	BALLAST WATER TANK 3 P	67,767		67,767						
NO.11	BALLAST WATER TANK 3 S	67,767		67,767						
NO.12	BALLAST WATER TANK 4 P	63,778		63,778						
NO.13	BALLAST WATER TANK 4 S	63,778		63,778						
NO.14	BALLAST WATER TANK 7 P	40,317		40,317						
NO.15	BALLAST WATER TANK 7 S	40,317		40,317						
NO.16	BALLAST WATER TANK 4 C	72,037		72,037						
NO.17	AFT. PFAK B.W TANK P	60,273		60,273						
NO.18	AFT. PEAK B.WTANK S	60,273		60,273						
NO.19	AFT BALLAST WATER TANK C	116,896		116,896						
NO.20	BALLAST WATER TANK 5 P	65,055		65,055						
NO.21	BALLAST WATER TANK 5 S	65,055		65,055						
NO.22	BALLAST WATER TANK 6 P	63,113		63,113						
NO.23	BALLAST WATER TANK 6 S	63,113		63,113						
NO.24	BALLAST WATER TANK 3 C	145,337		145,337						
NO.25	FRESH WATER TANK 1 P	52,625			52,625					
NO.26	FRESH WATER TANK 1 S	52,625			52,625					
NO.27	FRESH WATER TANK 1 C	28,54			28,54					
NO.28	FRESH WATER TANK 2 P	102,037			102,037					
NO.29	FRESH WATER TANK 2 S	100,61			100,61					
NO.30	FRESH WATER TANK 4 P	70,186			70,186					
NO.31	FRESH WATER TANK 4 S	70,186			70,186					
NO.32	FRESH WATER TANK 3 P	76,252			76,252					
NO.33	FRESH WATER TANK 3 S	76,252			76,252					
NO.34	LIQUID MUD TANK 1 P	141,661				141,661				
NO.35	LIQUID MUD TANK 1 S	141,661				141,661				
NO.36	LIQUID MUD TANK 2 P	141,66				141,66				
NO.37	LIQUID MUD TANK 2 S	141,66				141,66				
NO.38	LIQUID MUD TANK 3 P	141,66				141,66				
NO.39	LIQUID MUD TANK 3 S	141,66				141,66				
NO.40	LIQUID MUD TANK 4 P	141,661				141,661				
NO.41	LIQUID MUD TANK 4 S	141,661				141,661				
NO.42	SPECIAL PRODUCT TANK 1 P	88,08					88,08			
NO.43	SPECIAL PRODUCT TANK 1 S	93,582					93,582			
NO.44	SPECIAL PRODUCT TANK 2 P	92,36					92,36			
NO.45	SPECIAL PRODUCT TANK 2 S	92,36					92,36			
NO.46	FUEL OIL SERVICE TANK P	18,463						15,878		
NO.47	FUEL OIL SERVICE TANK S	18,463						15,878		
NO.48	FUEL OIL SETTING TANK P	16,346						14,058		
NO.49	FUEL OIL SETTING TANK S	16,346						14,058		
NO.50	FUEL OIL TANK 1 P	63,545						54,649		
NO.51	FUEL OIL TANK 1 S	63,545						54,649		
NO.52	FUEL OIL TANK 2 P	38,642						33,233		
NO.53	FUEL OIL TANK 2 S	38,642						33,233		
NO.55	FUEL OIL TANK 4 P	43,246						37,191		
NO.56	FUEL OIL TANK 4 S	25,657						22,065		
NO.57	FUEL OIL TANK 5 P	104,199						89,611		
NO.58	FUEL OIL TANK 5 S	104,199						89,611		
NO.59	FIFI FOAM TANK P	9,382							9,382	
NO.60	FIFI FOAM TANK S	9,382							9,382	
NO.61	LUBRICATING OIL TANK 1 P	8,291								8,291
NO.62	LUBRICATING OIL TANK 1 S	8,291								8,291
NO.63	PROP LUBRICATING OIL TANK P	2,867								2,867
NO.64	PROP LUBRICATING OIL TANK S	2,867								2,867
TOTAL VOLUME		4502,775	291,868	1489,555	629,313	1133,284	366,382	474,114	18,764	22,316

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