

# TECHNICAL SPECIFICATION

## Bourbon Emerald

Supply / ROV

UT 745 E



Revision: 29.06.2007

IMO no: 9319715

DNV id no: 25237

MMSI: 258489000

Call Sign: LMSN

### MAIN DESCRIPTION

Type:	UT 745 E
Classification:	DnV + 1A1, Fire Fighter I, OILREC, SF LFL, Comf-V(3), E0, DYNPOS-AUTR, Clean DK(+),HL(2,8), HELDK-S
Yard:	Aker Langsten A/S
Yard built no:	198
Place built:	Tomrefjord
Country built:	Norway
Delivered:	2004
Flag:	NOR
Port of registry:	Fosnavåg
Owner:	Bourbon Ships AS

### MEASUREMENT

Lenght oa:	90,70 m
Lenght bpp:	78,80 m
Breath moulded:	18,80 m
Depth moulded:	7,60 m
Draught max:	6,20 m
Gross tonnage GT:	3756 t
Corresponding DWT:	4200 t
Net tonnage NT:	1430 t
ISM-Responsible:	Bourbon Offshore Norway AS

### CARGO CAPACITY

Deck cargo:	2800 T, VCG 1m ab. Main deck
Deck area:	950 m <sup>2</sup> , including Mezzanine deck
Clear Deck space:	640 m <sup>2</sup> clear deck space.
Deck strength:	10,0 t/m <sup>2</sup> , axel load 23t
Fuel (gasoil):	1288,30 m <sup>3</sup>
Liquid Mud:	600,80 m <sup>3</sup> (2,5 S.G.)
Brine:	751,60 m <sup>3</sup>
Drillwater/Ballast:	2678,70 m <sup>3</sup>
Base Oil:	296,50 m <sup>3</sup>
Dry Bulk:	400,00 m <sup>3</sup> , 8 x 50m <sup>3</sup> vertical tanks
Fresh Water:	744,90 m <sup>3</sup>
Methanol:	160,80 m <sup>3</sup>
Oil Recovery:	1061,30 m <sup>3</sup>
Slop:	406,80 m <sup>3</sup>

### DISCHARGE RATES

Loading/Discharge station:	2 each side. 5" - 4".Weco connection/reducer
Fuel discharge rate:	2 pumps a' 250 m <sup>3</sup> /hour, 9 bar, Hydr.driven
Mud discharge rate:	2 pumps a' 100 m <sup>3</sup> /hour, 24 bar, Hydr.driven
Brine discharge rate:	2 pumps a' 100 m <sup>3</sup> /hour, 24 bar, Hydr.driven
Drillwater discharge rate:	2 pumps a' 250 m <sup>3</sup> /hour, 9 bar, Hydr.driven
Dry Bulk discharge rate:	80 tons/hour
Base Oil discharge rate:	2 pumps a' 150 m <sup>3</sup> /hour, 9 bar, Hydr.driven
Fresh Water discharge rate:	2 pumps a' 250 m <sup>3</sup> /hour, 9 bar, Hydr.driven
Methanol discharge rate:	2 pumps a' 100 m <sup>3</sup> /hour, 9 bar, Hydr.driven
Slop discharge rate:	1 x 150 m <sup>3</sup> /h/9bar hydr. , 2 x 60 m <sup>3</sup> /h/9bar elect.

### MACHINERY / PROPULSION

Main Engine set 1:	2 x RRMB C25: 33L6A, 1740 kW - 900 RPM	Bow Thruster 1:	R&R, TT 2200 DNP-SS-CP, 241 rpm 883 kW
Main Engine set 2:	2 x RRMB C25: 33L6A, 1740 kW - 900 RPM	Compass Thruster Forward:	R&R, TCNS 73/50-180, 304 rpm 883 kW
Propulsion Aft:	2 x RRM AZP 120/86-320/US305CP 2500kW 171rpm	Main Generators set 1:	2 x ABB AM6 630 S08, 2070 kVA
Total BHP:	9333 BHP	Main Generators set 2:	2 x ABB AM6 630 S08, 2070 kVA
Total Kw:	6960 kW	Emergency Generator:	CAT 3408 TM Capacity 370,0 kW
Water Treatment Plant:	1 x Enwa MT 25 SRH	Shore Connection:	3 x 440V, 250A
Heeling system	1420 m <sup>3</sup> /h at 0.8 bar		

**PERFORMANCE / CONSUMPTION**

Service Speed/Consumption: 13,50 knots, 15 m<sup>3</sup>  
 Port Consumption: 1,0 m<sup>3</sup>

**ACCOMODATION**

Cabins/Beds: 14 single / 18 double  
 Crew/Passengers: 50 persons, 11 crew / 39 passenger  
 Mess/Dayroom: 1 x messroom, 2 x Dayroom  
 Cool store/Freezer: 8,4m<sup>2</sup> / 9,4m<sup>2</sup>  
 Dry Provision: 11,7m<sup>2</sup>  
 Client Office: 8 m<sup>2</sup> available in accomodation

**DECK EQUIPMENT**

Tugger winch:	2 x Rauma Brattvåg AKM4112, 12 tons	ROV Arrangement:	Anti-heeling system, Power supply for 2 x working ROV
Crane 1:	1 x TTS Marine deck crane		FW cooling system and working air supply
Capacity 1:	3 tons at 12 m		Communication-, video-, DP-alarm, fire alarm system
Crane 2:	1 x Hydralift Offshore crane		Mezzanine deck 5 t/m <sup>2</sup> (9.6m x 18.6m) incl.
Capacity 2:	90 tons single fall, 100 tons double fall. 70 tons at 1500m depth. 2 x tugger on crane swivel. Heave compensated.		El.store, workshop and hydraulick room. Removable cargo rail 5,8 mtr. Each side.
Crane 3:	1 x SMST, 12T / 2000m cable. interchangeable with Bourbon Hidra.	Storage Reels:	1 x rope reel interchangeable with Hidra / presently fitted onboard Emerald.
Capacity 3:	Telescopic crane: single fall: 12T at 10m, 6T at 19m. Double fall: 24T at 6m.	Smith Brackets:	2 x 150 tons SWL
Anchors conventional:	Stockless Bower Anchors, 2 x 3300 Kg	Stern Roller:	2 x 10 tons / 1000mm x ø 800mm
Chain cables conventional:	Stud link chain cable 522,5m	Hose flushing:	1 x Drip pan and 16" manifold.
Windlass:	1 x Anchor windlass type RRM BRATTVÅG BFMG63.04		
Capstans:	2 x Capstan type RRM Brattvåg CM4110		

**RESCUE EQUIPMENT**

Rescue class:	Fire Fighter I w/hose flushing capability	Helicopter Deck:	Design for Super Puma AS 332 L2, max 9300 kg
Reception:	23 m <sup>2</sup> at M deck	Radar transponders:	2 x Tron SART, 9 GHz
Hospital:	17,0 m <sup>2</sup> incl. Toilet	Emergency Beacon:	1 x Jotron 40S,FB-4
Fire Fighting equipment:	Flexifog, CO <sup>2</sup> and misc.	GMDSS VHF's:	3 x Jotron Tron TR20
MOB Boats:	1 x MOB boat type 6,15 Merlin Norsafe AS	Survival Suits:	58 + 3 working suits
Rescue Regulation:	NMD regulation	Life Jackets:	54 adult + 5 children
Daughter Craft:	1 x 14 persons, interchangeable with Hidra, presently fitted on Hidra.	Life rafts:	6 x 25 persons Viking
		Oil pollution Service:	Oil dispersant system, Jason 2 x spray booms

**NAVIGATION AND COMMUNICATION EQUIPMENT**

Radar 3 cm:	1 x Furuno FR-2817 X-band, Arpa/AIS/Interswitch	GMDSS Sea Area:	A3
Radar 10 cm:	1 x Furuno FAR-2837S S-band, Arpa/AIS/Interswitch	MF/HF Radio:	1 x Furuno FS-2570 MF/HF/DSC. SSB 250 W sim
Radar slave:	1 x 17" monitor aft. w/control	DSC Receiver:	1 x included in MF/HF SSB
Gyro:	3 x Anschutz std 22 gyrocompass	VHF 1:	1 x Sailor RT 4822 VHF-DSC simplex
Autopilot:	1 x Anschutz Pilotstar D	VHF 2:	1 x Sailor RT 4822 VHF-DSC simplex
Chart Plotter:	1 x Telchart 2026, 17" monitor aft / AIS interface	VHF 3:	1 x Sailor RT 4722 VHF-DSC duplex
Navtex:	1 x Furuno NX-500	UHF:	2 x Motorola GM 360 225 ch
Joystick:	5 x Poscon II	Portable VHF:	3 x Motorola GP-900 ex, portable
AIS:	1 x Furuno FA-100 interfaced to electronic charts	Portable UHF:	4 x Motorola GP-900 ex, portable
VDR:	1 x Furuno voyage data recorder VR-5010	Mobile Telephone 1:	1 x Nokia 32, Voice
SSAS:	1 x Furuno Felcom 15 SSAS interface	Mobile Telephone 2:	1 x PhoneCell SX5, Voice/Fax
Echo Sounder:	1 x Furuno FE-700	Mobile Telephone 3:	1 x Nokia 32, Data
Speed log:	1 x Furuno DS-80 doppler log	Iridium:	1 x Skanti, voice/data
Satellite Navigator (GPS):	1 x Furuno GP-90, 12 channel	Sat C 1:	1 x Furuno Felcom 15
DP:	1 x Dynpos AUTR, Kongsberg SDP21	Sat C 2:	1 x Furuno Felcom 15
DP Reference 1:	1 x DPS 700 (consists of DPS 132/DPS 200)	Fleet 77:	1 x Nera F77, voice/data 64k/fax
DP Reference 2:	1 x Fanbeam 4 MDL, 1 x Hipap 450,	Intercom System:	UlsteinCom Data/Phone/TV
DP Reference 3:	1 x Inmarsat / 1 x Spotbeam / 2 x lala / 1 x UHF	Helibeacon:	1 x TS-20B
DP Reference 4:	1 x MRU 2 / 1 x MRU 5, 1 x Sercel NR203 / HF	Helilanding Information:	1 x Sea Tex HMS 100
Wind Sensors:	2 x Obserment, OMC 139	Helicopter comm:	1 x Jotron TR 710 MD, 1 x Icom IC-A6 Portable
		Vsat Data/Phone link:	128kb up/down-stream, 2 x voice