



# MPSV "IZUMRUD" DP 2

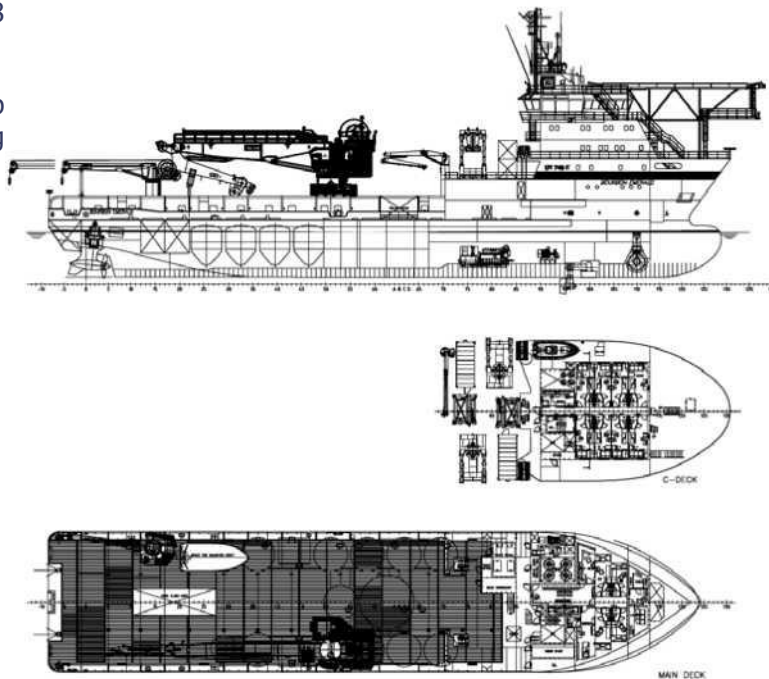
IMO 9319715 CALL SIGN UBHV2



MPSV "IZUMRUD" is a UT 745 E design, diesel electric, DP 2, multipurpose subsea services support vessel with two AHC deep water crane and accommodation for 58 persons.

The vessel is designed for world-wide, deep water operations to fulfill the following duties:

- Deepwater precision lifting and installation up to 2,000m;
- ROV operations;
- Anti Heeling system, power supply for 2 working ROV, FW cooling syst. and working air supply, communication/video/DP alarm, fire alarm system.
- Mezzanine deck 5t/m<sup>2</sup> (9.60x 18.60 m), store, workshop, hydraulic room, removable cargo rail: 5.80 m each side.
- Maintenance of SPMs buoys;
- Survey operations;
- Platform maintenance support in DP;
- Transportation of liquid, bulk products, deck cargo, dangerous goods and other equipment for drilling and production support;
- Flotel support;



MULTI PURPOSE SUPPLY VESSEL

## REGISTRATION

Vessel Name: **IZUMRUD**  
Flag: **RUSSIA**

Builder: **AKER LANGSTEN SA**  
Year Built: **2004**

Class: **RINA C<sup>⊗</sup> SUPPLY VESSEL-HEAVY CARGO; OIL RECOVERY SHIP; FIRE-FIGHTING SHIP-1; UNRESTRICTED NAVIGATION; <sup>⊗</sup>AUT-UMC ; <sup>⊗</sup>DYNAPOS DP2; CLEAN; HELIDECK**

Updated: 20-10-2021

# SHIP PARTICULARS MPSV -IZUMRUD

## GENERAL INFORMATION

Vessel's name	IZUMRUD
Former name	BOURBON EMERALD
Owner	LLC "ALLIANCE" IMO 5787313 Office V-1-4K, Liter V,11, Komendantskiy prospect, Saint Petersburg, 197117, Russia Phone +7 981 775-18-01, +7 911 039-02-03 E-mail: filichevevgeny@yandex.ru
Type	MPSV UT 745 E
Design	Ulstein design
Delivered	01.10.2004
Yard/place/country	Aker/Tomrefjord/Norway
Flag	Russian Federation
Call sign	UBHV2
Port of registry	St. Petersburg, Russia
IMO number	9319715
MMSI	273 298 110
Class RINA	101123
Official number \ Right of navigation under the State of the Russian Federation	10141138
ISM/ISPS Managers	JSC "POLISPAST" IMO 6234921 Room 28-N Room B-2-23K, lit. B Komendantskiy prospect, Saint Petersburg, Russia
Insurer	"ALFA STRAKHOVANIE PLC" 60/129, Litera B, Moskovskiy, St.Petersburg, 190013

## PARTICULARS \ DIMENSION

Lenght OA/PP (m)	95,00 m /78,80 m
Breath moulded	18,80 m
Depth moulded (m)	7,60 m
Draft max/min (m)	6,215 m / 4,80 m
Draft at medium load (m)	Design 5,60 m
Max air draft (m)	32,3 m
Summer free board (m)	1,415 m
Free board at max draft (m)	0,800 m
Gross Tonnage (t)	3756 t
Net tonnage (t)	1438 t
Suez Canal Gross Tonnage (t)	3514,35 t
Suez Canal Net Tonnage (t)	2744,14 t
Deadweigh (t)	3668 t
Bollard pull (t)	N/A
Boat landing (Y/N)	Y

## MACHINERY / PROPULSION

Type of propulsion	Diesel Electric			1 BHP = 0,746 Kw
	Number	Manufacturer	Model	Power BHP/KW
Azipull	2	Rolls-Royce Kamewa	US 305 CP	3351 BHP/2500 kW @ 171 rpm
Bow thruster	1	Rolls-Royce Marine AS	TT 2200 DNP-SS-CP	1184 BHP/883kW @ 241 rpm
Retractable bow thruster	1	Rolls-Royce Marine AS	TCNS 73/50 107 323	1184 BHP/883 kW @ 304 rpm
Stern thruster	N/A			
Azimuth thruster	N/A			
Fix axial thruster	N/A			
Diesel generator	4	Rolls-Royce Bergen	C25:33L6A	2292BHP / 1740 kW @900 rpm
Shaft generator	N/A			
Auxilliary generator	N/A			
Emergency generator	1	Caterpillar	CAT 3408 TM	496 BHP /370 kW
Propellers	2	Rolls-Royce Ulstein	US 305 CP	
Rudders	N/A			
Shore Connection	1	3 x 440V, 250A		

## SPEED / CONSUMPTION

Grade of fuel used?	MDO			
	Speed (Kn)/consumption full loaded (t/day)	Speed (Kn)/consumption medium loaded (t/day)	Speed (Kn)/consumption unloaded (t/day)	
Maximum speed (100%)		14 knts/25.0 t/day		
Sevice speed (80%)		11 knts / 14.0 t/day		
Economic speed		10 knts / 10.0 t/day		
Consumption stand by at sea	3.0 t/day			
Consumption stand by at port	2.0 t/day			
DP consumption 2 DG	7.0 t/day			
DP consumption 4 DG	14.0 t/day			
Fuel transfer calibrated flowmeter installed (Y/N)	Y			
Fuel supply calibrated flowmeter(s) installed (Y/N)	Y			

## CARGO DECK CAPACITIES/ DECK EQUIPMENTS/ SUBSEA EQUIPMENTS

Type of deck		Wood						
Maximun Deck Area	Deck area (m2)	815 m2	Deck length (m)	50,0 m	deck width (m)	16,0 m		
Deck Point loading permissible	total (t)	23 t	Aft (t/m2)	10 t/m2	medium (t/m2)	10 t/m2	Fwd (t/m2)	10 t/m2
Mezzanine deck	area (m2)	310 m2	total (t)		(t/m2)	5 t/m2		
Sheltered deck	area (m2)	N/A	total (t)	N/A	(t/m2)	N/A		
Tugger winch	number	2	model	Brattvag AKM 4112			capacity (t)	12 t
Capstan	number	2	model	Brattvag CM 4110			capacity (t)	5 t
Windlass	number	1	model	Brattvag BFMG 63.04			capacity (t)	
Anchors conventional	Stockless Bower Anchors 2 x 3,3 t			Special mooring system				
Chain cables conventional	Stud link chain cable 2 x 522,5m x 46 mm			Type	N/A			
Deck Rigging Points. Indicate number and SWL of deck cargo securing points.	20 Lashing eyes cargo rails 10 t / 12 D-rings 30 t / 23 Fittings for lashing 2 t			Winch	N/A			
Connections for refrigerated containers (Indicate number of sockets available)+ voltage	4 x 220 V			Drum capacity	N/A			
Compressed air on deck (Indicate type of coupling available)	1. Service Air 7 b, quick coupling type 2. Bulk air 5 bars, Weco 4"							
Deck crane 1	SWL (t)	3 t	Outreach (m)	12 m	Location	Fwd Port main deck		
SUBSEA								
Offshore crane 1:	NOV knuckle boom subsea crane							
Main winch:	Harbor capacity dble fall	90 t		Auxiliary winch:	Harbor capacity dble fall	12 t		
	Offshore capacity dble fall	90 t			Offshore capacity dble fall	12 t		
	Max waterdepth (m)	1500 m Single fall			Max waterdepth (m)	2000 m		
	AHC (Y/N)	Y			AHC (Y/N)	Y		
	Man Riding (Y/N)	N			Man Riding (Y/N)	N		
	Ship to Ship (Y/N)	N			Ship to Ship (Y/N)	Y		
Offshore crane 2:	SMST Subsea Crane							
Main winch:	Harbor capacity dble fall	24 t @ 6 m		Auxiliary winch:	Harbor capacity dble fall	N/A		
	Offshore capacity dble fall	24 t @ 6 m			Offshore capacity dble fall	N/A		
	Max waterdepth (m)	2000 m			Max waterdepth (m)	N/A		
	AHC (Y/N)	N			AHC (Y/N)	N/A		
	Man Riding (Y/N)	N			Man Riding (Y/N)	N/A		
	Ship to Ship (Y/N)	Y			Ship to Ship (Y/N)	N/A		
Helideck (Y/N)	Dimensions (m <sup>2</sup> )	Y	Type of Helicopter		Super Puma AS 332	Maximun Weight	9,3 t	
Deck ROV power supply (Y/N)	Y	power BHP/KW	2 x 80 kVA / 2 x 350 Kva		A frame (Y/N)	N		

## TOWING/ ANCHOR HANDLING WINCH

	description				
Bollard pull max	N/A				
Bollard pull continued	N/A				
Anchor handling/tow winch	N/A				
Secondary winches	N/A				
Drums	N/A	Towing Drum Capacity m x diam.(mm)		N/A	
Drums dimensions (length x diameter)	N/A				
Cargo secure winches	N/A				
Rig chain gipsies	N/A				
Chain lockers	N/A				
Towing pins	N/A				
Pop up pins	N/A				
Shark jaws	N/A				
Towing wire	N/A				
Spare tow wire	N/A				
Work wire A/H	N/A				
Spare work wire	N/A				
Tugger wire	22 mm				
Cargo wire	N/A				
Wildcat wire	N/A				
Capstan wire	N/A				
Forerunner tow winch	N/A				
Forerunner work winch	N/A				
Forerunner sec winches	N/A				
Grapnels for chain	N/A				
Forged J chaser	N/A				
CR-D connectors	N/A				
Stern roller	2 x 10 t / 1000 mm x 800 mm				
Smith brackets	2 x 150 t SWL				
Other materials	Hose Flushing system 16 " + Drip Pan				

## LIQUID CAPACITIES/DELIVERY RATES

PRODUCT	Max capacity (m3)*	DISCHARGE RATE m3/hour ; pressure (bar)	TANK CLEANING SYSTEM FITTED (Y/N)	Agitators (Y/N)	connections discharge points
Diesel (Fuel)	1283 m3	2 x 250 / 9	N/A	N/A	Weco 5" / Male
Fresh Water	744 m3	2 x 250 / 9	N/A	N/A	Weco 5" / Male
Drill Water/Ballast (*enclosed ballast system)	2742 m3	2 x 250 / 9	N/A	N/A	Weco 5" / Male
liquid Mud	n/a	2 x 250 / 24	Y	Y	Weco 5" / Male
Base oil	299 m3	2 x 150 / 9	N/A	N/A	Weco 5" / Male
Brine	751 m3	2 x 100 / 24	Y	Y	Weco 5" / Male
Methanol	161 m3	2 x 100 / 9	N/A	N/A	Weco 5" / Male
Other	407 m3	150 / 9	Y	N/A	Weco 5" / Male
Heeling system	335 m3	1420 / 8			
Oil recovery system (Y/N)	Y	Recover capacity (m3)	1060 m3		

## DRY BULK CAPACITIES

Able to totally segregate products (Y/N)	N							
Able to load and discharge two products concurrently (Y/N)	Y							
Able to backload offshore through aft connection	Y							
Compressor and dryer	number	2	power:	29,2 m3/h + in Kw				
Number of tanks	8 x 48 m3	Total Capacity (m3)	384 m3	Pressure Bar:	5,6 b	Connections discharge points	Weco 5" / Male	
Delivery rates	80 t/h							

## DANGEROUS GOODS

Compliant for the carriage of dangerous goods (Y/N)	Y	Class 1.1+1.6, 1.4S, 2.1, 2.2, 2.3, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 8, 9.
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## ACCOMMODATIONS

Total beds	58
Single cabins	6
2 men cabins	26
3 men cabins	N/A
4 men cabins	N/A
5 men cabins	N/A
Minimum number of crew/ safe manning	9
Maximum number of pax when crew 22 persons	36
Maximum number of special personnel when crew 22 persons	50
Total number of persons for which life-saving appliance are provided	72
Hospital	1 - 17,0 m <sup>2</sup> incl. Toilet
Day rooms	2
Offices	2 + Client area & Bridge
Conference room (Y/N)	Y
Gym (Y/N)	Y
Swimming Pool (Y/N)	Y
Air conditioning in all accommodation	Y
Cold room (number/m3)	2 x 18 m <sup>2</sup>
Dry room (number/m3)	2 X 25 m <sup>2</sup>
Fresh water maker	1 Osmoser x 9 m <sup>3</sup> /day
Hot water boiler	1 x 250,000 kcal/h.

## DYNAMIC POSITIONNING SYSTEM

Type	SDP-21
Manufacturer of DP control system	Kongsberg Simrad AS
	Type/ model
DP reference 1- DGPS 1	Kongsberg DPS 132
DP reference 2- DGPS 2	Kongsberg DPS 232
DP reference 3-Fan Beam/Cyscan/other	MDL Fan Beam MK IV
DP reference 4 -USBL	Kongsberg HiPAP 500
Independent Joystick System	Poscon II
Wind sensor 1	WindObserver II OMC 139
Wind sensor 2	WindObserver II OMC 139
Wind sensor 3	n/a
Gyro compass 1	Anschutz std 22
Gyro compass 2	Anschutz std 22
Gyro compass 3	Anschutz std 22
VRS/MRU 1	Seatex MRU 2
VRS/MRU 2	Seatex MRU 5
DP functionalities-follow mode course	Y
DP functionalities-follow SUB ROV	Y

## NAVIGATION EQUIPMENT

	Number/type/model			
Radar 3 cm	Furuno FAR-2817	Fitted with ARPA and AIS (Y/N)	Y	
Radar 10 cm	Furuno FAR-2837	Fitted with ARPA and AIS (Y/N)	Y	
Radar slave	1 x 17" monitor aft. w/control			
Magnetic compass	Y			
Autopilot	Anschutz pilostar D			
Navtex	Furuno NX-500			
Electronic chart system	Transas 4000			
Speed log	Furuno DS-80			
Echo sounder	Furuno FE-700			
Satellite navigator (GPS/DGPS/GLONASS)	Furuno GP-90			
AIS	SAILOR 6004			
Weather fax	N			
BNWAS	Furuno BR-500			
VDR	Furuno voyage data recorder VR-5010			
Helideck Monitoring System	HMS-100			

## COMMUNICATIONS

## CONTACT DETAILS

	Number of unit/type/model		Phone number/phone type	E-mail
GMDSS compliant (Y/N) state area (A1,A2,A3)	Y \ A1+A2+A3	Bridge	V-SAT +7 499 674 0350	<a href="mailto:izumrud-alliance@mail.ru">E-mail:izumrud-alliance@mail.ru</a>
SARTs	2 x TRON SART		V-SAT +7 499 674 0354	
EPIRBs	JOTRON \ TRON 60 GPS JOTRON \ TRON 60 S	Captain	Mobile + 7 911 940-01-75	<a href="mailto:izumrud-alliance@mail.ru">E-mail:izumrud-alliance@mail.ru</a>
LRIT	Furuno Felcom 19			
MF/HF radio	FS-1575 MF/HF/DSC. SSB 250 W			-
Radio telex	n/A			
VHF\DSC	SAILOR RT-4722 SAILOR RT-4822			
VHF Two way radios	JOTRON TRON 2 X TR20 JOTRON TRON 1 X TR30			
NAVTEX	FURUNO NX-500		Inmarsat-C	
Helicopter comm	Jotron TR-710-MD		INM - C 427313897	-
UHF	Motorola GM-360 – 2 Pcs			
Portable VHF	VHF DP 2400E-4 Pcs		INM - C 427313897	-
Portable UHF	UHF DP 2400eE- 6 Pcs			
Mobile phone	Y			
Iridium	Y / ICHU 1000			
Sat c1	Furuno Felcom 15			
Sat c2	Furuno Felcom 15			
SSAS	Furuno Felcom 19			
Inmarsat	N/A			
Fleet 77	N/A			
VSAT/Internet/phone link	Y / SAILOR COBHAM			
IP phone	Y			
Internet for charterer (Y/N)	Y			
TV in cabins	Y			
Intercom system	Y			



## SAFETY EQUIPMENT/ENVIRONMENTAL

Fire fighting equipment (FIFI class)	FiFi 1						
Pump	2	capacity (m3/hr)	1500				
Monitors	2	capacity (m3/hr)	1200				
Deluge protection system (Y/N)	Y						
Foam system (Y/N)	Y	tank capacity (m3)	4,5				
Fixed fired-fighting equipment (Y/N)	Y	type	Flexifog, CO2				
Fire pump	2	capacity (m3/hr)	74				
Emergency fire pump	1	capacity (m3/hr)	34				
Environmental							
Dispersant tanks (Y/N), capacity (m3)	N	capacity (m3)	N/A				
Spray boom (Y/N)	Y	number	2	length (m)	6 m		
Fix gaz detection system Y/N	N						
Central fire alarm system on accommodation and machinery spaces	Y						
Compliance with "zero discharge" regulations Y/N	Y, Clean Class						
Incinerator	Y / Saniterm SH 20 SM						
Garbage compactor	Y						
Sewage Treatment Plant	Y / DVZ-SKA-100						
Sewage Holding Tank	Y / 13.36 m3						
Safety							
Rescue boat	Length (m)	6,5 m	Manufacturer/model/grade of fuel used?	Jiangsu Jioyan / CJ6 0B-1 / MDO	pax	6	
Work boat (Y/N)	Length (m)	N/A	Manufacturer/model/grade of fuel used?	N/A	pax	N/A	
	Number of unit/type/model						
Lighting and searchlight	3						
Lifejacket	76 adult + 5 for children						
Liferafts	6 x 25 persons & 2 x 20 persons						
Survival suits	76 normal size + 4 over size						

*All particulars believed to be correct but not guaranteed*

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