

OTSV BELOV MARES

Offshore Terminal Support Vessel

BELOV



This vessel is a Rolls-Royce design UT771 WP is a medium-sized offshore supply vessel converted to an OTSV to meet the demands of Petrobras on maintenance of offloading hoses between land bases and offshore installations. Its a diesel electric model with azipull propulsion system.

REGISTRATION

Vessel Name: BELOV Mares

Type: Offshore Terminal Support Vessel

Class: RINA C Offshore Support Vessel;

oil recovery ship - flash point > 60° C;

fire-fighting ship - 1 - water- spraying ;

unrestricted navigation - AUT-UMS;

BWM-T; COMF-AIR; COMF-NOISE-C;

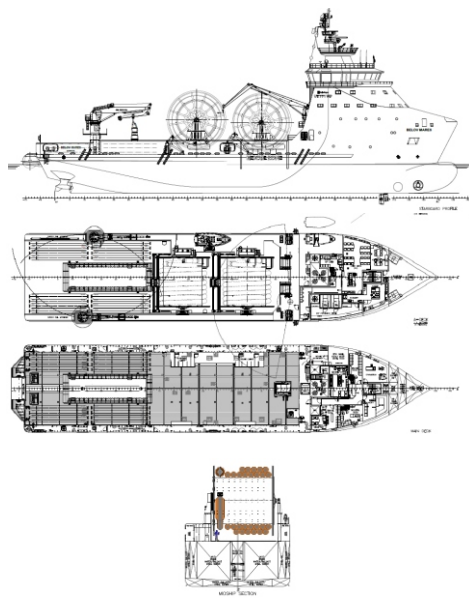
COMF-VIB-C; DYNAPUS DP2;

INWATERSURVEY; SPS; SYS-NEQ

Year: 2022

Builder: COSCO SHIPING HEAVY
INDUSTRY (GUANGDONG) CO, LTD

Owner: BELOV Group



MAIN PARTICULARS

DIMENSIONS

Length overall	88.45 m
Breadth moulded	18.00 m
Depth	7.80 m
Draft	5.80 m
Deadweight	2998 t
Net tonnage	1299
Gross tonnage	4202

CAPACITIES

Deck capacity	10.0 t/m ²
Fuel oil	600 m ³
Fresh water*	322 m ³

*Includes redundant fresh water generators (reverse osmosis)

EXTRA RESOURCES

Offloading hose line flushing/pressure test system: flow 500 m³/h
Inerting system (Nitrogen): pressure 5kgf/cm² and volume 80m³

ACCOMMODATIONS

Accommodation for	46 POB
Cabins	45
Hospital	1
2 mess rooms, laundry, galley, stores, CCM, 2 offices, change room, gym.	

Diesel oil filtration system:
Alpha with CJC separator

OPERATION

PROPULSION - MACHINERY

Main generators	2 x 1480 kW
Main generators	2 x 990 kW
Emergency generator	1 x 250 kW
Main propeler	2 x 1600 kW
Azimuth thruster	1 x 725 kW

PERFORMANCE

Trial speed	13 knots
Economic speed	10 to 13 knots

Remark: vessel is diesel-electric

SAFETY EQUIPMENT

Life raft: 6 x Self-inflating for 25 persons each • Life vests: 55 x class II

1 x Rescue Boat and Davit System Palfinger FRB 610 60HP

Type	Fast rescue boat
Building Material	GRP**
Capacity (max. FRB)	8 persons
Loa x Boa x H (m)	6.10 x 2.20 x 2.28
Boarding position	Inboard
Safe Working Load (SWL)	1800 kg
Trim/list conditions	10°/20°
Std. lowering height	19 m (at 0° / 0°)
Max. lowering/ hoisting speed	Hydraulically 18 m/min

1 x Work Boat and Davit System Viking Magnum-750MKII

Type	Fast rescue boat
Building Material	GRP**
Capacity (max. FRB)	15 persons
Loa x Boa x H (m)	7.70 x 2.90 x 2.85
Boarding position	In/outboard on deck level
Safe Working Load (SWL)	400 kg
Trim/list conditions	10°/20°
Max. lowering height	43 m***
Min. hoisting speed	Hydraulically 18 m/min

Glass fiber Reinforced Polyester; *Including 10°/20° trim/list condition

DECK EQUIPMENT

1 x Cylinder Luffing knuckle Jib Crane,
Model GPK 115-3-16

Lifting capacity	3.00 t
Working radius MAX	16.00 m
Working radius MIN	2.10 m
Lifting speed with SWL	10.0 m/min
Lifting speed Light load	10.0 m/min
Lifting height	40.0 m
Luffing time	80 sec
Slewing sector	360° Unlimited
Slewing speed	0.6 rpm
Heel + trim conditions	5°/ 2°
Weight of crane	8.40 t

2 x Hydraulic Knuckle Boom Marine
Crane, Model DMW-10T17M-KB

Lifting capacity	10.00 t at 17 m
Minimum working radius	3.00 m
Maximum working radius	17.00 m
Hoisting height	40.00 m
Hoisting speed	0~12m/min
Slewing speed	0.7r/min
Slewing range	360°
First luffing time	90 sec
Second luffing time	75 sec

Strauss Hydraulic Work Winch

Traction Capacity	100 t
Cable Diam	97 mm
Cable Capacity	5000 m
Nominal Speed	0-9 m/min

2 x Rope storage Winch

Nominal Speed	0 - 15 m/min
Rope Capacity Ø97mm	500.00 m
Brake Capacity	8.00 t
Rotation	right/left
Command	local
Drive	electric
Work Power	40cv

2 x Offloading Hose Reel with spooling gear

Static Brake Capacity: 70.00 t
Dynamic Traction Capacity on First Layer: 50.00 t @ 13m/min
Dynamic Brake Capacity in First Layer: 60.00 t @ 52m/min
Hose Capacity: 400m - 20" Double Carcass Floating Hose with 20" HEV

2 x Deck Capstan

10 tonnes' pull	at 0 - 12 m/min
Light line	at 0 - 14 m/min

2 x Tugger Winch

10 tonnes' pull	at 0 - 19 m/min
Slack rope	at 0 - 73 m/min
Lowering speed	at 0 - 75 m/min

2 x Stern Winch EKRON

15 tonnes' pull	at first layer
10 tonnes' pull	at first layer

Crude Oil Recover area (16 m x 4 m)

Capacity	200 m³
Discharge flow rate	250 m³/h at 40 mca
Drainage flow rate	200 m³/h

Offloading Hose Storage area

Capacity: 2 piles DN 20 inches at each board side

Two combined Karm Fork & Towingpins

Safe Work Load: 160.00 t

EQUIPMENT & ELETRONICS

SEA CONDITIONS MEASUREMENT INSTRUMENTS

Valeport 106 portable current meter	1 x 50 m depth
Wave Height Measurement	1 x WS-PD Atlantec Drakkar

DYNAMIC POSITIONNING SYSTEM

- 1 Rolls Royce DP system (class 2) comprising:
- 2 DGNSS (combined GLONASS and DGPS), including Follow target function, motion prediction and DP capability analysis functions
 - 2 Cyscan
 - 2 UPS
 - 3 VRU-PD, 3 wind sensor
 - 3 Gyrocompass

ALARM & MONITORING SYSTEM

1 Rolls Royce ACON IAS MU system control: Main engines, propellers and thrusters, UPS

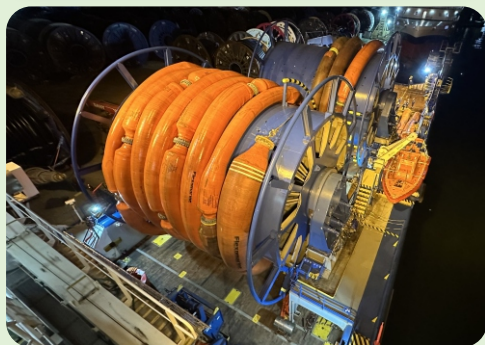
CCTV

CCTV system covering: deck, wheelhouse, engine room, bridge and engine room control

ELECTRONICS / NAVIGATION EQUIPMENT

AIS	1x Furuno FA-170
Auto Pilot	1x Raytheon NAUTOPILOT 5100
DGPS	2x Furuno GP-170
Echo Sounder	1x Furuno FE-800
ECIDS	1x Furuno FMD 3300
EPIRB	2x Jotron TRON 60GPS
GYRO	3x Raytheon Digital Gyro STD 22
GMDSS Radio Console	1x Furuno RC-1800T
GMDSS VHF	2x Furuno VHF FM-8900S
TWO-WAY VHF	3x Mcmurdo R5
GSM	1x Terminal 2N EasyGate Fax
HF/MF/SSB	1x Furuno FS-1575
Inmarsat-C	1x Furuno FELCOM 18
Magnetic Compass	CASSEN E PLATH BBC180
Odometer	1x Furuno DS-80
Radar	2x X Band Furuno FAR-3320 / S Band FAR-3330S
SART	2x Mcmurdo S5
SSAS	1x Furuno FELCOM 18
Portable VHF	3x ICON/ IC- M73
VDR	1x Furuno Vr7000
Portable UHF	4x ICON F4032T
DMC	1x ICON Ic350
Marine VHF	1x ICON/ IC- M200
Fixed UHF	5x Motorola Gm338
Portable UHF	2x Entel Ht583
Telegraph	1x Rolls Royce MT1-144
Whistle	1x Zöllner Makrofon M75F
Anti-roll system	1 x Hoppe Marine
InterCom System	1x MPA1600 & LOUDHAILER & ICS6200 PA/GA System & Loudhailer System & Auto

PHOTO GALLERY





www.belov.com.br

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