Trailing Suction Hopper Dredger “Ostsee”

GENERAL INFORMATION

Vessel: Ostsee
Type of vessel: Trailing Suction Hopper Dredger
Call sign: 5BAK4
IMO number: 9105152
Year of Build: 1995
Refit / Conversion: 2014
Yard number: 175 (Penee-Werft Building # 429)
Flag: Cyprus
Class: Bureau Veritas 1 HULL MACH, AUT UMS, Hopper Dredger, unrestricted navigation
Port of Registry: Rotterdam

MAIN DIMENSIONS

Length o.a.: 99.83 m
Breadth o.a.: 17.75 m
Length between perpendiculars: 90.25 m
Breadth moulded: 17.70 m
Depth moulded: 6.20 m
Drainage - Light ship weight: 3.63 m aft / 0.79 m fore
Drainage - Int. freeboard: 4.96 m
Drainage - Dredging mark: 5.59 m
Drainage - Inland mark: 6.03 m
Height vessel from keel to top of mast: 32.50 m
Light ship weight: 2.607 t
Deadweight - Int. freeboard: 3.838 t
Deadweight - Dredging mark: 4.791 t
Deadweight - Inland mark: 5.428 t
Displacement - Int. freeboard: 6.445 t
Displacement - Dredging mark: 7.398 t
Displacement - Inland mark: 8.035 t
Gross Tonnage: 3,785 t
Nett Tonnage: 1,135 t
Accommodation: 13 men
Minimum safe manning - 200 miles: 7 men

ENGINES/PROPULSION

Main engines: 2 x MAN B&W - 6L 32/40
- power: 2,640 kW each
Auxiliary generator engines: 2 x Deutz MWM - TBD 616 V8
- power: 345 kW each
Emergency generator engine: 1 x Deutz MWM - BF 6L 513 RC
- power: 120 kW
Total installed diesel power: 6,090 kW

BUNKER CAPACITY

Marine gas oil: 702.5 m³
Fresh water: 47.9 m³
Fuel type engine: MGO (DMA)
Luboil: 45,000 ltr

INSTALLED PROPULSION POWER

Bowthruster: 1 x 400 kW
Sternthruster: -
Propulsion power - Free sailing: 5,280 kW
Propulsion power - Dredging: 2,550 kW

Details of the equipment offered by DMC is done in good faith and believed to be correct but cannot be guaranteed.
Inboard dredge pumps: 2 x 480 kW
Shore delivery pumps: 2 x 1,800 kW (inboard dredge pumps)
Shore delivery pumps in series: 3,600 kW
Underwater dredge pumps: –
Jet pumps: 2 x 486 kW

Installled Dredge Pump Power

Hopper volume: 3400 m³
Dredging depth - Normal: 25 m
Dredging depth - Maximum: –
Trailing suction pipes - Diameter: 2 x Ø 0.7 m
Shore delivery pipe - Diameter: Ø 0.75 m
Shore delivery pipe - Bow coupling: Ø 0.75 m (Ø 0.8 m optional)
Sailing speed - unloaded in ballast: 14.3 knots
Sailing speed - loaded: 14 knots
Unloaded System: Bottom doors & bow discharge
Anchoring System: 3 anchors - 2 x bow / 1 x stern
Dynamic Positioning (DP): no
Dynamic Tracking (DT): no

Discharge cargo: Bottom doors/Rainbow/via port dredging pipe
Loading/discharge time: 45 min./1.10 hrs (sand)
Fuel consumption: Sailing 75% = 14 mt per day /100% 24 mt per day / during dredging operations 12 mt per day
Deck crane: Kobelco 127 kW, 150 tm, boom 27 mtr

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