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Edda Fjord

Multipurpose Vessel

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Østensjø Rederi

EDDA FJORD

GENERAL

Operator	Østensjø Rederi AS
Built	2002
Builder	Flekkefjord Slipp og Maskinfabrikk
Yard no.	173
Design no.	498
Designed by	Vik & Sandvik AS
Call sign	LACU8
Flag	Norwegian International Ship Registry
Port of Registry	Haugesund
IMO no.	9246114
MMSI No.	257204000
Classification	Lloyd's 100 A1, HELDK, LMC, UMS, DP (AA), LFL <43Co, CAC(S), EP(N,S), DYNPOS AUTR, ERN(99,99,99), ShipRight "SCM", EP
Safety regulations	Solas 1974/1978, International Convention on Load Lines, Pollution Prevention - MARPOL 1973/1978, NLS Certificate
Outline of the vessel	The vessel is a Multipurpose Platform Supply Vessel, designed with emphasis on high performance, low emission, efficiency, safety and economy. Flotel, Construction work/Module Handling, Cable-lay and repairs, ROV and Survey, Pipe transport and Supply duties. Vessel is prepared for Oil Rec., Rescue and Firefighting I+II

DIMENSIONS

Length incl Helideck	104,85 m
Length o.a.	98,16 m
Length b.p.	82,5 m
Breadth mld.	22,0 m
Depth mld.	10,0 m
Draft max.	8,22 m
Air draft	44 m

TONNAGE - DEADWEIGHT

Gross tonnage	5886GT
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Net tonnage	1765 NT
Deadweight max	6600 T
Lightweight	4952 T

DECK LOADING CAPACITIES

Deck measurements	64,3 m. 5 pipe lengths a' 12,2 m
Outside deck area	1270 m ² . 1450 m ² with removed cargo rails
Deck cargo capacity	3500 t VCG 1,0 m above main deck without main crane on board. Max 10 t/m ²

DECK EQUIPMENT

Anchor chain	19 shackles PS, 20 shackles SB. Type: 58 mm Grade NVK3 Stud Link chain
Anchors	2 . Type: SPEK, Mass of anchor: 5225 kg
Anchor Windlass / Mooring Winch	2 x anchor windlass/mooring winches forward
Mooring winch	2 x anchor windlass/mooring winches forward. 2 x capstans aft. Type: Karmøy Winch
Deck cranes	PS: 1 x 100 tm/10 t at 10 m. Type: Hydramarine. SB: 1 x 30 tm/3 t at 10 m. Type: Hydramarine.
Tugger winches	2 x 15 T. Type: Karmøy Winch
Capstans	2. Type: Karmøy Winch 10 T
Deck power supply	Moonpool cabinet: 3p 2000A at 440 VAC. Breaker setting from 1000A to 2000A
Offshore crane	Single part: 100 T at 15m. 30 T at 32 m. Double part: 200 T at 9 m. 28 T at 32 m. Wire Max hook travel: 1560 m. Active Heave Compensated. Aux winch: 10 T at 35 m. Wire length 560 m

PROPULSION

General	2 x Diesel-electric driven CP propellers (Ø4000mm) with variable rpm
Main engines	1x Wärtsilä 8L32, 1x Wärtsilä 12V 32
Generator set	2 x 3600 kW, 1 x 5400 kW. Total: 12600 kW
Horse power ration	1 x 3600 kW, 1 x 5400 kW. Total: 9000 kW
Fuel type	MDO / MGO

AUXILIARIES / ELECTRICAL POWER

Generators	1 x 3600 kW, 1 x 5400 kW. Total: 12600 kW
Harbour generator	700 kW, 450 V, 60 Hz, 1800 rpm

Emergency generator	140 kW, 450 V, 60 Hz, 1800 rpm
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MAIN PROPELLERS

Maker	2 x John Crane Lips
Type	PR 100, variable pitch
Speed	153 rpm
Diameter	4000 mm
Manoeuvring machinery	Two Ac asynchronous water cooled motors. Each rating 4500 kW at 900 rpm. 2 x high-lift spade rudders. 2 x steering gears for parallel and split running

THRUSTERS

Bow thrusters	2 x Brunvoll Tunnel thrusters, each 1200 kW
Bow azimuth thruster	1 x Brunvoll Retractable azimuth thruster, 1500 kW
Stern thruster	2 x Brunvoll Tunnel thrusters, each 1000 kW

BRIDGE / MANOEUVERING

Bridge controls	1x K-Thrust (Thruster control) with Thruster levers Fwd, Aft, Port and Starboard console.
Loading / Discharging	5x Kongsberg K-Chief OS. Remote monitoring of all tanks including loading/discharging operations and start/stop of all pumps

DYNAMIC POSITIONING SYSTEM

Type	Kongsberg K-Pos DP class 2. 4x K-Pos Operation Stations
Approval / Class	Loyds AA, IMO Class 2
Reference systems	HiPAP 501, Seapath 300, DPS 132, DPS 200, Cyscan, Radius, Gangway reference system.
Sensors	3 x Gyro, 3 x Motion Reference Unit, 3 x Wind sensor
ERN number	99,99,99

LIQUID TANK CAPACITIES

Marine Gas Oil	1941 m3
POT water	1486 m3
Drill Water/Ballast	2120 m3
Slop tanks	80 m3

Mud	1177 m3 (SG 2,5)
Special products LFL/LFL*	474 m3
Misc.tanks	221 m3
Fresh water production unit	1 x 80m3/24h RO unit

LIQUID DISCHARGE

POT water	1 x 250 m3/h at 10 bar
Fuel Oil pumps	1 x 250 m3/h at 10 bar
Brine pumps	2 x 160 m3/h at 24 bar. 2 systems
Liquid Mud pumps	4 x 75 m3/h at 24 bar. 2 systems
Special products pumps	2 x 75 m3/h at 9 bar
Drill water pumps	2 x 250 m3/h at 10 bar
Methanol pumps	2 x 100 m3/h at 10 bar
Discharge piping	4"

BULK TANK CAPASITIES

Bulk Cement Tanks	5 tanks, each 81m3. Total 405 m3 (10 100 cbft)
Bulk Discharge	2 compressors, each 26,6 m3/min at 5,6 bar (80 psi)

NAVIGATION EQUIPMENT

Radar	1 x Furuno FR-2825 3 cm ARPA. 1 x Furuno FR-2835S 10 cm ARPA. 1 x Furuno FR-21
Electronic Chart System	1x Kongsberg K-ECDIS system
Compass	3 x S.G. Brown Meridian Gyro
Autopilot	1 x Robertson AP9 Mk 3
Echo Sounder	1 x Furuno FE 700 with digital depth indicator
Navtex	1 x Furuno NX 700
DGPS	GPS NAVIGATOR GP-170 and GPS NAVIGATOR GP-150
AIS	1 x Furuno Universal AIS FA-100
Voyage data recorder	1 x Furuno VR 3000s
Sound direction finder	1 x Taiyo TD-L1550A
Log	1 x Furuno DS 80
Helideck Monitoring System	1 x Kongsberg Seatex HMS 100

COMMUNICATION EQUIPMENT

General	GMDSS installation in accordance with IMO regulations for vessels operating within Sea Area A3
GMDSS Radio MF/HF Transceivers & DSC	1 x Furuno FS-2575C
GMDSS VHF with DSC	1 x Furuno DSC-FM8800S/D. 1 x Furuno DSC-FM8900S
GMDSS VHF portable	3 x Jotron Tron TR20
VHF	4 x Sailor RT2048 simplex
GMDSS EPIRB	1 x Jotron 40S. 1 x Jotron 45 SX
GMDSS SART	2 x Jotron Tron
GMDSS Inmarsat C	1 x Furuno Felcom 15, 1 x Furuno Felcom 18
UHF	10 x portable Motorola GP900 (6 channels with HelmetCom head sets)
Mobile Telephone	2 x Phillips and 2 x Gigaset
Telefax	SatCom F
Sat TV system	
Helicopter Communication	Fixed and portable VHF's and Radio beacon

ACCOMMODATION

Total no. berths	90 Beds
Total no. of cabins	62 x Cabins
Single cabins	34 x Single cabins
Double cabins	28 x Double cabins. Mixed separate double bedroom, shared bathroom and cabins with bathroom
Office	4 x Offices. Office space on bridge. 1 x Client operation room
Hospital	1 x Hospital
Ventilation/A-C for accommodation	High pressure single-pipe fully redundant ventilation system. Full heating/AC throughout the accommodation 2 x 20 m ³ + 1 x 17 m ³ pr day
Other	Conference room, Lounges, Gymnasium and Sauna, 2 x Laundries, Wardrobe

LIFESAVING / RESCUE

Approved lifesaving appliances for	LSA approved for 90 persons
Liferafts	12 x 25 persons
Rescue/MOB boat	- NorSafe 655 with 170 HP - Brude HD720ASI - BUKH+Steyr SOLAS 236, 212 HP with Almarin 230 waterjet with 212
Fire-fighting/foam	Unitor Water/Foam pump/monitor covering cargo deck area and helicopter deck

MODULE HANDLING TOWER

General	Moonpool with arrangements for installation of MHS
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 OTHER

Helicopter deck	Helicopter deck designed for Super Puma (9,3 T). Helideck designed and equipped in accordance with relevant authorities from Norway, Denmark, United Kingdom and Netherland. Helicopter monitoring system
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Helicopter Reception	1
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Moonpools	1 x Moonpool 7,2 x 7,2 m with removable bottom hatch. 1 x Mini-moonpool diameter 1200 mm prepared for Multibeam Echosounder
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Anti roll system	3 x Passive roll reduction tanks
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Anti heeling system	1 x Anti heeling pump Framo 2100 m ³ /h at 7000 mmwc. Automatic-/manual system
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Deck power supply	Moonpool cabinet can deliver 3p 2000 A at 440 VAC. Breaker setting from 1000 A to 2000 A
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