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-54
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-50
-48
-46
-42
-38
-34

Edda Fonn

ROV/Subsea Vessel



Østensjø Rederi

EDDA FONN

GENERAL

Operator	Østensjø Rederi AS
Built	2003
Builder	Myklebust Verft AS
Delivered	June 2003
Yard no.	36
Call sign	LMER
Flag	Norwegian
Port of Registry	Haugesund
IMO no.	9273662
Classification	DNV, 1A1, SF, Comfort-C(3)-V(3), HELDK-SH, E0, DYNPOS AUTR, CLEAN, ICE C, PMS, ISM
Safety regulations	NMA, Worldwide (ex.Panama and Suez), trade within GMDSS Sea area A3, Solas 1974/1978, International Convention on Load Lines, Pollution Prevention - MARPOL 1973/1978, INLS Certificate

Outline of the vessel

DIMENSIONS

Length o.a.	84,70 m
Length b.p.	76,15 m
Breadth mld.	18,0 m
Depth mld.	9,1 m
Draft max.	6,8 m
Air draft	35,5m

TONNAGE - DEADWEIGHT

Gross tonnage	4505 GT
Net tonnage	1351 NT
Deadweight max	2354 T

DECK LOADING CAPACITIES

Deck measurements	41 m x 18 m
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Outside deck area	700 m ²
Inside deck area (hangar)	Cargo hold, ROV hangar
Deck cargo capacity	800 t. 7 t/m ² aft of frame #26, 5 t/m ² ahead of frame #26

DECK EQUIPMENT

Anchor chain	10 shackles PS, 8 shackles SB. Type: 44 mm DNV K3 Stud Link
Anchors	2 x 3300 kg. Type: Yangyuan Marin Equipment Casting Co
Anchor Windlass / Mooring Winch	2 x anchor windlass/mooring winches forward
Mooring winch	2 x anchor windlass/mooring winches forward
Deck cranes	2 x 17 tm: 1,6 T at 10 m. Type: Effer. 1 x 15 tm: 1,1 T at 14,7 m. Type: Heila
Tugger winches	1 x 10 T. Type: Karmøy Winch
Capstans	2. Type: Karmøy Winch
Offshore crane	Single part: 50 T at 16 m. 20 T at 27 m. Double part: 100 T at 10 m. Wire lenght: 2000 m. Active Heave Compensated to 100 T. Aux winch (AHC): 12 T at 25 m. Wire length: 500 m

PROPULSION

General	Diesel electric propulsion plant. 2 x Diesel-electric driven Steerprop ST-35 azimuth propellers. 2 x AC asynchronous water-cooled motors. Each: 2200 kW (2992 bhp) at 1192.5 rpm, 690 V, 0-60 Hz. Supplied from two frequency converters
Main engines	4 x Mitsubishi 1800 RPM
Generator set	4 x 1920 kW. Total: 7680 kW (10445 BHP)
Horse power ration	7680 kW (10445 BHP)
Fuel type	MDO / MGO

AUXILIARIES / ELECTRICAL POWER

Generators	4 x 1820 kW, 690 V, 60 Hz, 1800 rpm. Total: 7280 kW (9901 BHP)
Harbour generator	388 kW, 690 V, 60 Hz, 1800 rpm
Emergency generator	99 kW, 690 V, 60 Hz, 1800 rpm

ELECTRICAL SYSTEMS AND POWER MANAGEMENT

General	Power Management: Kongsberg K-Chief 700. Electrical Systems: ABB A/S, Prosess Industries Division Marine & Turbocharging
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SPEED / CONSUMPTION

Max speed / Consumption	15,5 knots, 30 tonnes/day
Service speed / Consumption	13 knots, 14 tonnes/day
DP-operations (weather dependent)	5 m ³ /day
In port	1 m ³ /day

MAIN PROPELLERS

Maker	Steerprop
Type	Azimuth Propulsor SP 35 CRP
Speed	0-155 rpm
Diameter	2 x 3500 mm, 2 x 2800 mm
Manoeuvring machinery	Diesel Electric. Mitsubishi/ABB

THRUSTERS

Bow thrusters	2 x Brunvoll Tunnel thrusters, each 1150 kW. Including 1 x super silent type
Bow azimuth thruster	1 x Brunvoll Retractable azimuth thruster, 1350 kW

BRIDGE / MANOEUVERING

Bridge controls	Kongsberg K-THRUST. 3 integrated K-POS/K-CHIEF operator stations.
Loading / Discharging	Kongsberg K-CHIEF 700 - Remote monitoring of all tanks and start/stop of all ship systems

DYNAMIC POSITIONING SYSTEM

Type	Kongsberg K-POS DP-22
Approval / Class	DNV DYNPOS-AUTR. IMO Class 2
Reference systems	2 x HiPAP 500, Seapath 330, DPS 232, Fanbeam, (optional RADIUS 1000)
Sensors	3 x Gyro, 3 x Motion Reference Unit, 3 x Wind sensor
ERN number	99,99,99

LIQUID TANK CAPACITIES

Marine Gas Oil	1120 m ³
POT water	428 m ³

Drill Water/Ballast	1868 m3
Slop tanks	47,8 m3
Misc.tanks	NA
Fresh water production unit	Reversed Osmosis. 18 m3/day at 15-25 celsius sea water temp. 15 m3/day at 5 celsius sea water temp.

LIQUID DISCHARGE

Fuel Oil pumps	NA
Fresh water pumps	NA
Ballast pumps	2 x 140 m3/hour. Pressure 15m M.L.C
FW high pressure pumps	Sentralized HP washer. 36 l/min at working pressure 160 Bar/Max 200 Bar. Maker Wap/Kew Duo Booster.
FW transfer pump	NA

NAVIGATION EQUIPMENT

Radar	1 x Furuno FR-2817 3 cm ARPA. 1 x Furuno FAR-2837S 10 cm ARPA. 1 x Furuno RCU016 slave display
Electronic Chart System	2 x Telchart ECDIS
Compass	3 x S.G. Brown Meridian Gyro. 1 x Octans Gyro
Autopilot	1 x Integrated in Kongsberg K-POS DP-22. 1 x Anschuetz Pilotstar D
Echo Sounder	1 x Furuno FE 700 with digital depth indicator
DGPS	1 x Furuno GP 80
AIS	1 x Furuno Universal FA 100
Voyage data recorder	1 x VR 5000
Sound direction finder	NA
LRIT	1 x Sailor TT-3000 LT mini C
Log	1 x Furuno DS 80 with remote displays
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 2570
GMDSS VHF with DSC	2 x Furuno DSC-FM8700
GMDSS VHF portable	3 x Jotron Tron
VHF	3 x Sailor RT2048

GMDSS EPIRB	1 x Jotron 40S. 1 x Jotron 45SX
GMDSS SART	2 x Jotron Tron
GMDSS Inmarsat C	2 x Furuno Felcom 15
UHF	5 x GP 380 Handheld Statoil 12 x GP 340 Handheld 1 x GM 360 Stationary
Mobile Telephone	GSM
Telefax	GSM and V-sat
Sat TV system	Marlink
Helicopter Communication	1x Fixed and 3 x portable VHF

ACCOMMODATION

Total no. berths	66 x Beds
Total no. of cabins	41 x Cabins
Single cabins	22 x Single cabins
Double cabins	19 x Double cabins. 11 with separate bedroom and shared bathroom, 8 with double berth with bedroom
Office	6 x Offices
Hospital	1 x Hospital
Other	Conference room, Gymnasium, Sauna, Sunbed, 3 x Dayrooms, Duty mess, Mess room, Galley, Provisions, Stores, Laundry, Linen

LIFESAVING / RESCUE

Approved lifesaving appliances for	LSA approved for 66 persons
Liferafts	8 x 25 persons. Type: Viking
Rescue/MOB boat	Springer MP 660, waterjet with 200 HP
Fire-fighting/foam	Water/Foam pump/monitor covering 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. Rules CAA CAP437. DNV class notation "HELDK-SH". Helicopter monitoring system
Helicopter Reception	1



Moonpools	1 x Moonpool 7,2 x 7,2 m. 1 x Mini-moonpool diameter 1200 mm prepared for Multibeam Echosounder
Offshore crane	Single part: 50 T at 16 m. 20 T at 27 m. Double part: 100 T at 10 m. Wire length: 2000 m. Active Heave Compensated to 100 T. Aux winch (AHC): 12 T at 25 m. Wire length: 500 m
ROV systems	Hangar with arrangements for installation of LARS and ROV
Large side gates in ship`s side	Hinged hydraulic operated side gate in ROV hangar on SB
Anti roll system	3 x Passive roll reduction tanks
Anti heeling system	1 x Anti heeling pump 2000 m3/h. Automatic-/manual system
Deck power supply	440 V and 230 V

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Østensjø Rederi

Smedasundet 97, P.O. Box 394, N-5501 Haugesund, Norway

Phone: +47 5270 4545 | Fax: +47 5286 6740 | post@ostensjo.no | www.ostensjo.no

-34