

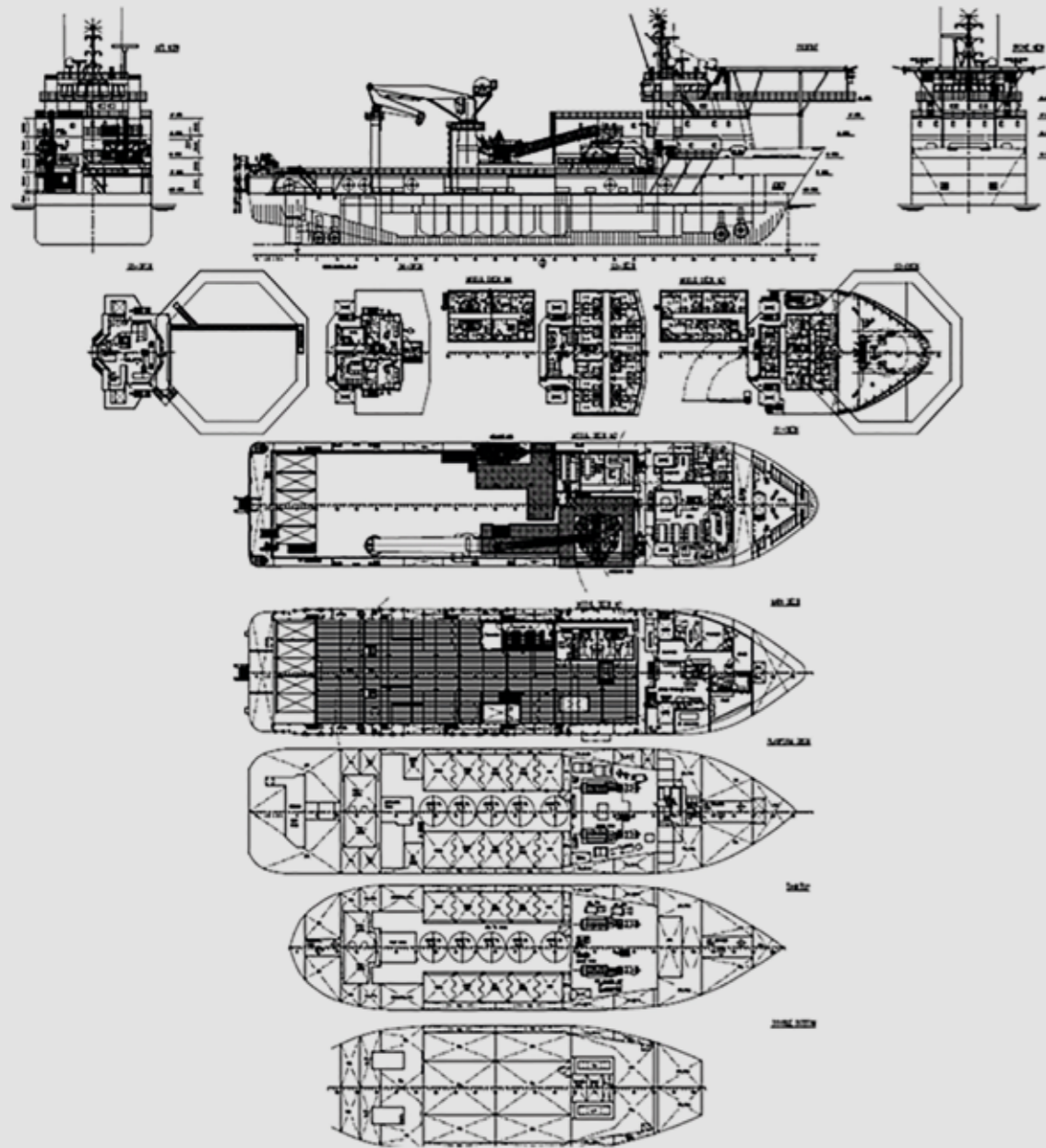
OCEAN ZEPHYR –

Dedicated multipurpose vessel for O & M activities.

The OCEAN ZEPHYRS new duty as a dedicated maintenance vessel is and was approved in the B01 wind farm. The OCEAN ZEPHYR is a Supply vessel - a conversion of the offshore oil and gas construction vessel Edda Freya built in Norway early 90ies.

Developed to a specialized O & M vessel and at the same time multipurpose vessel the OCEAN ZEPHYR equipped with the Ampelmann System A16 XL, helicopter-deck, Mezzanine decks (removable) for storage and workboat Deck crane and boat landing the OCEAN ZEPHYR is a very flexible and dedicated O & M workboat for offshore wind farms.

OCEAN ZEPHYR has 67 cabins in total (single & double rooms).



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**If wind farms are
your business, we
are the solution.**

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SPECIFICATION

GENERAL INFORMATION

Built	1991, mod. 2000, 2002 & 2013
Yard	Ulstein Verft AS, Ulsteinvik/Norway
Flag	Marshall Islands
Class	DNV+1A1 DYNPOS ATR, HELDK Supply Vessel, EO, ICE, C SF, BIS DK(+), HL (2.5), TMON, PMS, ISM, LFL 9000625
IMO #	9000625
Call sign	V7BD6

MAIN PARTICULARS

LoA	87.10 m
LPP	74.30 m
Breadth	17.50 m
Max. draught	6.20 m
Moulded draught	7.30 m
Gross/Net tonnage	3000/983

SPEED & CONSUMPTION

Maximum	12 kn/hr @ 19 mt/p.d.
Eco	11 kn/hr @ 14 mt/p.d.
DP mode	12 m ³ p.d.
Stand-by at sea	10 m ³ p.d.
In port	1 m ³ p.d.

CARGO CAPACITY

Deck space	817 m ²
Deck length/breadth	57.00 m x 14.60 m
Deck load	2380 mt (5 mt/m ²)
Gas oil	811.7 m ³ / 1355 m ³
Fresh water	1235 m ³
Mud	603 m ³ (SG 2.5) / 765 m ³
Brine	561 m ³ (SG 2.5) / 974 m ³

CARGO PUMP CAPACITY

Fuel oil	1 x 0-250 m ³ /hr @ 9 bar
Fresh water	1 x 0-250 m ³ /hr @ 9 bar
Brine	2 x 100 m ³ /hr @ 20 bar
Mud	2 x 75 m ³ /hr @ 18 bar

PROPULSION

Main propulsion	2 x Ulstein Bergen BRM-6, 2 430 kW, 2 x Ulstein CPP
Auxiliary engine	2 x Caterpillar 3408 TA, 394 kW
Generating power	2 x shaft generator 2 300 kVA 2 x auxiliary generator 450 kVA
Bow Thruster	2 x Ulstein CPP each 736 kW, electric driven
Stern Thruster	2 x Ulstein CPP each 590 kW, electric driven

DP SYSTEM

Classification	DNV DYNPOS-ATR (IMO class 2)
Type	MT Bridge Mate DP2
References	2 x Veripos LD5 DGPS, 1 x Kongsberg HiPAP 500, 1 x CyScan

DECK EQUIPMENT

Normally installed	Ampelmann System A16 XL, mounted on STB side Boat landing (stern mounted, removable) Workboat (Norsafe Magnum 750 LC, 170 kW diesel, jet) Mezzanine decks (removable) for storage and workboat
Deck crane (main)	1 x TTS Norlift, mounted on STB side 20 mt @ 20 m harbour (8 mt offshore) 40 – 100 m/min hoist speed 600 mtrs wire capacity
Auxiliary crane	1 x Hydralift MCVT-1085, 2 mt @ 10 m outreach
Boat landing crane	1 x HS Marine AK25 HE4, 1,0-3,5Te, 13,1-5,0 mtrs
Helideck	D=19.5 t=9.3 (Super Puma AS332/L2)
Moon pool	pipe type for various equipment: EM-1000
Tugger winch	1 x 10 mt; 1 x 15 mt
Power supply	400 A / 440 V @ 60 Hz
FRC / MOB Boat	1 x Norsafe 6,55, rigid, 110 kW diesel, jet

NAVIGATIONAL EQUIPMENT

Radar	3 x Furuno FAR 2117 1 x Furuno FR 2137 ECDIS Transas NS-4000
ECDIS	2 x Simrad Gyro
Compass	1 x Sperry Gyro
Autopilot	1 x Robertson AP9 MK2
Echosoude	1 x Skipper GDS 100
GPS	1 x Furuno GP150 1 x Fugro SeaStar 9200-G2

COMMUNICATION EQUIPMENT

GMDSS	acc. IMO sea area A3
VHF	2 x Sailor VHF G 248
UHF	6 x Motorola
Satellite	V-Sat
Mobile phone	1 x GSM
Telefax	1 x GSM
Sat TV	Sea Tel

ACCOMMODATION & COMPLEMENT

LSA provided for full complement (67 total)	
Single cabins	17
Double cabins	25
Offices	4
Hospital	1
all cabins are fully air conditioned with en-suite bathroom	

MISSION SPECIFIC FLEXIBILITY

- ✔ Semi-permanent equipment presently fitted incl. accommodation module, workboat mezzanine deck, container mezzanine deck and helicopter deck can be removed to meet mission specific requirements
- ✔ ROV launching hangar (without ROV) existing and can be fitted in lieu of Ampelmann gangway system
- ✔ Crane column can be lowered by 6 meters to increase SWL and operability for subsea applications
- ✔ Prepared for A-frame
- ✔ Suitable for a wide range of surface and sub-surface operations

