

NORMAND OCEAN

VESSEL SPECIFICATION SHEET



MULTI PURPOSE SUBSEA CONSTRUCTION VESSEL

Normand Ocean is a MT6022 multipurpose construction vessel built and joined DeepOcean's fleet in 2014

The MT6022 design provides excellent stability and station keeping.

The selection and design of spread, equipment and workspaces, is all based on the objective to perform safe and efficient subsea operations.

Normand Ocean's large working deck, combined with limited weather limitations on MHS and ROV's, together with the 150 Te offshore crane and De-ice class, results in a vessel that are flexible and fit for offshore operations in harsh environments.

KEY VESSEL FEATURES

- 1020 M2 WORKING DECK
- 150 TE AHC SUBSEA CRANE WITH 2000 M WIRE
- 40/80 TE MODULE HANDLING SYSTEM WITH FLUSH SKIDDING SYSTEM
- 2 X SUPPORTER MK2 WORK ROV IN HANGAR
- 1 X SEA OWL XTI OBSERVATION ROV IN HANGAR
- ACCOMMODATION FOR 90 PERSONS
- GENERAL WEATHER LIMITATION FOR SPREAD = 5,0 M HS
- WEATHER LIMITATION FOR OPERATION OF WROV = 5,5 M HS

GENERAL

SHIP NAME	Normand Ocean
DESIGN	MT 6022
OWNER	Solstad Offshore
CHARTERER	DeepOcean
BUILT	2014
BUILDER	Kleven Verft
IMO NUMBER	9678939
SIGNAL LETTER	LFNI

MAIN CHARACTERISTICS

LENGTH O.A	107,60 m
LENGTH B.P.P.	100,45 m
BREADTH MLD.	22,00 m
DEPTH MAIN DECK	9,00 m
DEPTH SHELTER DECK	11,80 m
MAX DRAFT MIDSHIP (SWL)	~7,15 m

CLASS / AUTHORITIES

DK(+), HELDK-S, COMF-V(3)/C(3), Clean Design, ICE-C, DEICE, SPS, NAUT AW, DP II ERN: 99,99,99,99.
The vessel are built in accordance to SPS Code (MSC.266(84) 13 May 2008), and according to Flag state rules.

SPEED

MAX SPEED (APPROX)	~15.5 knots
ECONOMY SPEED	12 knots

TONNAGE

GROSS TONNAGE (GRT)	~7300
NET TONNAGE (NRT)	~2200

ACCOMMODATION

Accommodation for 90 persons,
32 x 1 man cabins, 29 x 2 men cabins

HOSPITAL	1 off
RECEPTION	1 off
MESS-ROOMS	50 seats
DAYROOM 1/2	17/24 persons
COFFEE SHOP	1 off, Main Deck
WARDROBE MALE/ FEMALE	90/6 lockers

Gymnasium / Conference rooms / Lounge / Sky Lobby / Reception / Hospital / Offices / Luggage store

MOON POOL

1 off Moon Pool for constr. work, 7,2 m x 7,2 m

CARGO CAPACITIES

DEADWEIGHT AT MAX DRAUGHT	6000 T
MAX DECK LOAD	approx 2400 T@VCG :1.0m
MAX. CRANE LIFT & DECK CARGO	150 T in crane @ full outreach & approx 1 600 T cargo on Main Deck. acc. to SPS damage stability regulations.
REMOVABLE BULWARK SB	approx 19,5 m
FOLDABLE BULWARK PS	approx 15,6 m
REMOVABLE BULWARK ASTERN	approx 19 m

CARGO TANK CAPACITIES

DIESEL OIL	1450 m ³
FRESH WATER	1 200 m ³
WATER BALLAST	4440 m ³
ANTI HEELING	830 m ³
LUBRICATING OIL	50 m ³

WORKING DECK AREA:

MAIN DECK	~1170 m ² ex. MHS
CARGO DECK MAX WIDTH	21 m
M. DECK LOAD: STERN-FR.95	10 t/m ²
M. DECK LOAD: FR.95-FR. L06	5 t/ m ²

MAIN ENGINES GENERATORS

5 OFF CATERPILLAR 3516C	each 2230 ekW (Main)
1 OFF CATERPILLAR 3512C	1700 ekW (Harbour)
TOTAL GENERATOR EFFECT	12 850 ekW
1 OFF VOLVO PENTA	390 ekW (Emergency)

Diesel electric propulsion system. Frequency control of el.motors. Exhaust gas cleaning system.

MAIN SWITCHBOARD

Hareid Elektriske Siemens/ ABB.

MAIN PROPELLERS - AZIMUTH THR.

2 OFF RRM CP AZIPULL PROPELLERS	each 3500 kW
El. driven, frequency controlled.	

NORMAND OCEAN

THRUSTER FORE BODY

2 OFF TUNNEL THRUSTER FP each 1500 kW

1 OFF FP RETRACT. THRUSTER 1200 kW

El. driven, frequency controlled.

WINCHES / CRANES

OFFSHORE CRANE AHC 1 off 150 T@ 12,5 m
10 T@30 m with 2000 m operation depth.

CAP. AUX WINCH AHC 13,5 t @ 30 m, 1000 m operation depth.

MOORING WINCHES AFT 2 x 10 T

WINDL./MOORING 2 el. driven

2 OFF CRANES CAPT. DK 3 T @ 18 m SB/ PS

RESCUE EQUIPMENT

1 off 50 men Lifeboat each side.

1 off lifeboat PS to be MOB certified.

1 off Fast Rescue Craft MOB.

Life rafts 1 x 25 men at each side.

Survival Suits for 90 persons.

Extent of Lifesaving equipment according to Flag state requirements and ISPS.

CONTROL ROOMS / OFFICE

TWEEN DECK Operation station for machinery in Switchboard Room

MAIN DECK Deck Office, Engine Control Room

BOAT DECK ROV control, Server room, ROV Office, 6 off ices, Conf. room

CAPTAIN DECK Ship's Office/Conf.room

NAVIGATION EQUIPMENT

RADARS Furuno INS Chart radar FCR-2829, FCR 2839S

TRACKPILOT Furuno FAP-3000

GYRO 3 x Sperry Navigat X Mk1

NAVTEX Furuno NX 700B

DGPS 2 off Furuno GP-150

AIS Furuno Universal AIS FA-150

ECHO SOUNDER Furuno FE 700

SPEED LOG Furuno DS 60

ECDIS Furuno INS dual Edcis

VDR Furuno

LOADING COMPUTER Kongsberg / Lodic

HELIDECK MONITORING:

FUEL CONSUMPTIONS:

SERVICE SPEED Approx. 35 m³/24hrs

ECONOMY SPEED Approx. 24 m³/24hrs

DP MODE Approx. 8 m³/24hrs

HARBOUR MODE Approx. 1 m³/24hrs

HELICOPTER DECK

20,88 m x 1,25 (26 m) - 16,0 t acc. to Norwegian shelf requirement, HELIDK class notation, IMO regulation and UK Aviation Authorities UK 437 regulation. Sky lobby allocated for in/out going passengers. Helicopter weight approx. 15 tons.

FLOW METERS

Flow meter for fuel oil with printer.

ANTI HEEL SYSTEM

PUMP 2 x 1500 m³/ h -10 mwh

DP HARDWARE

2 x DP operator stations

1 x DP control unit.

1 x redundant DP control unit.

1 x Joystick control unit.

1 x portable DP Joystick, 4 connection boxes.

Manual levers forward and aft on bridge, direct hardwired to units.

Remote diagnostic.

DP Alert (light signal)

DP REF SYSTEM

2 x Kongsberg Seapath 300

1 x CyScan Laser ref. system

3 x Gyro compasses

1 x Wind sensor w/ remote displ. (aft/fore bridge)

1 x DGPS 700 system

1 x MRU-2 and two 2 x MRU-5

2 x HiPap 501

1 x Radius 1000

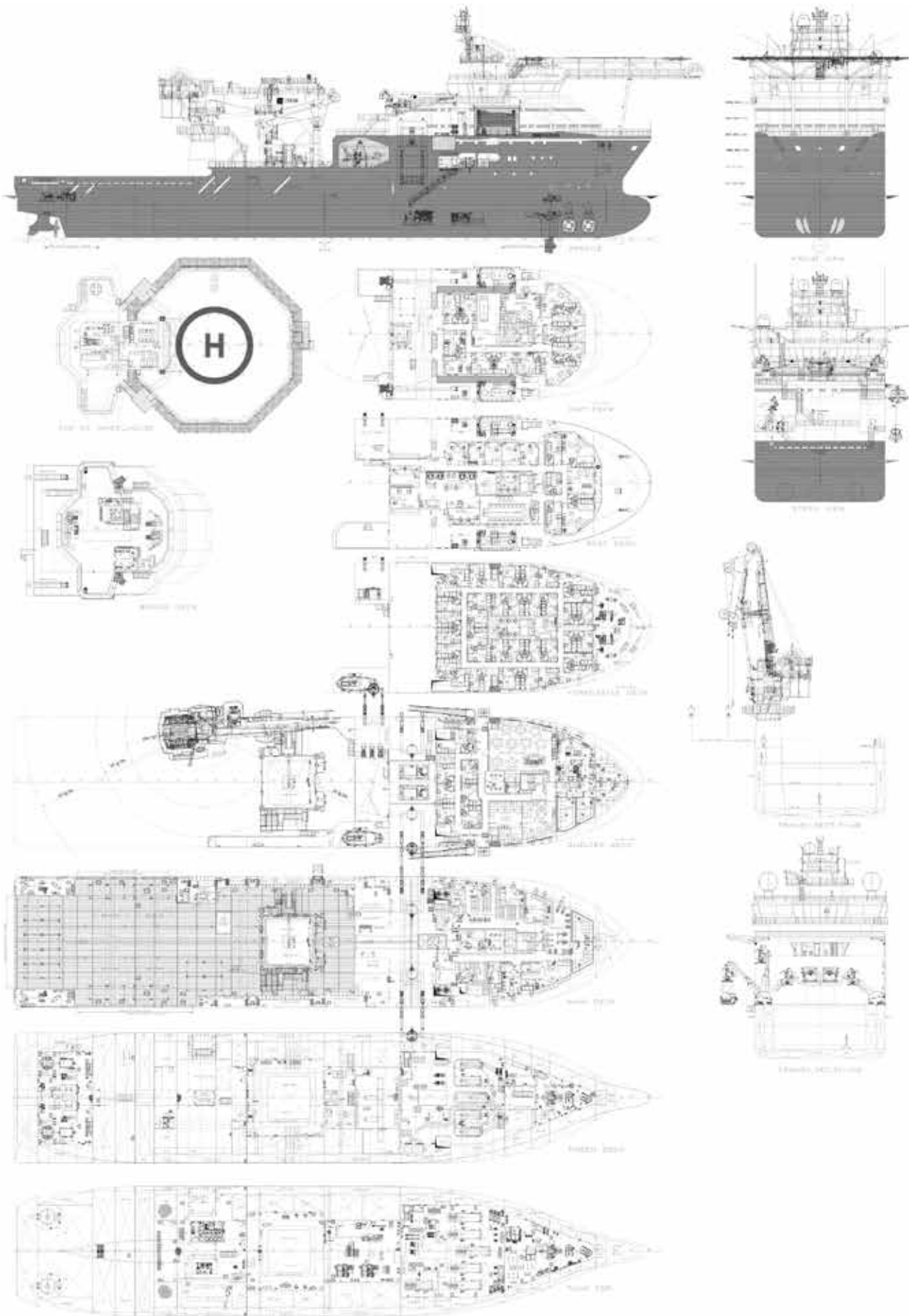
LOADING COMPUTER

MARIN TEKNIKK MT-ShipLoad

ROV HANGAR PREPARED FOR

2 off Work ROV & Lars

1 off OBS ROV & Lars



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