GOLDEN ENERGY OFFSHORE

MV DESPINA

of Ulstein SX130 Design

TECHNICAL OUTLINE SPECIFICATION

IMR & LIGHT CONSTRUCTION VESSEL

Rev.: 19/02/2020

Yard: Building No ZJ 2011 @ ZHEJIANG SHIPBUILDING Co. LTD
Delivery 27.10. 2011

Name of ship:	**MV Despina**
Port of registry:	**Fosnavåg**
Distinctive number or letters:	**LAKW7**
IMO Number:	**9521021**
Maritime Mobile Service Identity (MMSI):	**259 027 000**
DNV ID:	**29472**

GOLDEN ENERGY OFFSHORE

MAIN DESCRIPTION

Type : INSPECTION, MAINTENANCE, REPAIR & LIGHT CONSTRUCTION VESSEL

Classification:
DnV GL ✠ 1A1 BWM-(T) CLEAN (DESIGN)
COMF-V(3) DK(+) DYNPOS (AUTR) E0
HELDK–SH HL(2.8) ICE-C NAUT (OSV(A)) SF

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MEASUREMENTS

Length o.a.	:	98,6m
Length b.p.p.	:	91,8m
Breadth mld.	:	19,00m
Draught max.	:	6,6m
Design Draught.	:	6,00m
Freeboard @ max Draught	:	1,4m
DWT	:	4569T (closed moonpool)
Gross Tonnage	:	6072
Net Tonnage	:	1822
Deck load, Max	:	1500T

CAPACITIES

Work/Cargo Deck area: 810m^2 (45 x 18m)
Wooden deck: 810m^2
Deck strength: 10t/m^2
Height of bulwark on Main Deck: 1900mm

Fresh Water	:	967,1m^3	Pump capacity 2 x 0 - 250 m^3/h
FW Maker	:	2 x 20m^3/day	
Fuel Oil total	:	1650m^3 incl.(*) (**)	Pump capacity 2 x 250 m^3/hr
DW	:	1430m^3	Pump capacity 2 x 0 - 250 m^3/h
Ballast	:	2260m^3 incl. (i) (ii)	Pump capacity 2 x 0 - 250 m^3/h
i 2 x tanks	:	472m^3 for Anti Heeling.	Anti heeling pump capacity 1400m^3/hr
ii 3 x tanks	:	530m^3 for Stabilisation	

MACHINERY -PROPULSION

Main eng. : 5 x Caterpillar 3516B 1901 kW 60Hz, 2028 kVA, 1825kW
Main Propeller Plant : 2 x Schottel, FP 2500 kW each
Bow tunnelthrusters : 2x Brunvoll CP 1200kW each.
Bow Azimuth : 1x Brunvoll 850kW
Main eng. : 5 x Caterpillar 3516B 1901 kW

PERFORMANCE

Max speed 14,5 approx.	:	30,4mt / day
Service speed	:	12kts, 31,6 m^3/ day
Service speed	:	11,5kts, 27,4 m3/day
Eco speed 10kts/cons.	:	13,9mt / day
DP operation	:	7 mt / day
Port consumption	:	1,5 – 3,4mt /day

Max DP Speed with WROV and TMS in water: approx. 1-2 knots
Max DP Speed with WROV in water: approx. 2,5 knots
Max DP Speed with HPR poles in water: 4,0 knots
Max DP Speed approx. 10 knots

DECK/RESCUE EQUIPMENT

Tugger Winches : 2 x 10t
Capstans : 2 x 10t
Windlass/Mooring winch : 1 x Double w/ mooring
Deck Crane : 6t / 15m
Provision Crane : 3t / 12m
Life rafts : 2 x 25pers + 4 x 35pers
Survival Suits : 83
Life Jackets : 79
1 off Fast Rescue Craft: MP Springer 660
1 off (SOLAS approved) Davit for FRC
2 off Noreq Lifeboats total capacity 96
2 off Noreq Davits for lifeboats
1 off Incinerator + 1 off waste compactor

ACCOMMODATION

Total POB : 75 persons
17 off Single bed cabins
23 off Double bed cabins

2 off 6 bed cabins
1 off Heli Lounge
1 off ROV Controll Room
1 off Offline room
1 off Dayroom
1 off Smokers Dayroom
1 off Galley
1 off Messroom
1 off Conference room
1 off Gymnasium
1 off Hospital

SPECIAL DECK EQUIPMENT

AHC OFFSHORE CRANE SB:	Main Line: 150T SWL - 12m, single fall Total wire length: 2384m Hook travel 2393m / Ø76mm / weight in air 28,4kg 4.5T Bullhorn hook, DAF 1.3, AHC capacity 2m/s, Constant Tension Whip Line: 10T SWL - 25m, Constant Tension, w/ Man riding Tugger winches: 2 x 5T SWL w/ Constant Tension Slew sector / speed: 360° / 0 – 0.8rpm Operation limits: Max list 5°, Wind speed: 25 m/s Crane cradle has 2 alternatives for installation, which allows the Crane either to be parked forward or aftward.
REMOVABLE BULWARK SECTIONS:	Stbd: 10.5m aft of Offshore Crane, 12.6m fwd of the Offshore Crane Stern section: 11m
ROV LARS SYSTEM:	2 x ODIM LARS, Hydraulic
No of sheaves:	5
Deployment Load:	> 20Te
Operating speed:	144 m / min
Umbilical winches:	Umbilical capacity 4000m, winches located below Main Deck
ROV Power distribution:	2 x 400kW, 440 V each supplied through independent transformer from separate sides of the split 690V SWB
ROV Hangar side doors:	2 x TTS 5 x 9,3m
ROV Hangar aft door:	Roller gate 6 x 5m
MOONPOOL	7.2 x 7.2m with interface and structural enforcement for Module Handling System. Moonpool cover certified for 10t / m^2
HELIDECK	21m, restricted to max d-value in Norway, 16.8m. Max landing load 12.8T Certified for Sikorsky S 92 Fixed Fire Fighting system by pop-up nozzles, foam deluge system.
Working Air - 7 bar	3 x Outlets in ROV Hangar, Main Deck, Offshore Crane Column SB # 22 Main Deck PS # 2 Railing PS # 22 Railing PS #42
BOATLANDING	Foundation prepared
FO FOR DECK EQUIPMENT	Filling station for deck equipment is arranged on Main Deck, just behind the Aft ROV Hangar door, PS @ frame 44. FO Pump capacity is 900l/hr

POWER UTILITY STATIONS 2 x 2.0 MVA power supply systems

- 1 switchboard @ Main Deck, in the ROV hangar, frame 55 Port Side
- 1 switchboard in crane pedestal @ frame 23

Connections directly to circuit breakers :
Q1 – 630A, 440VAC, 3P+E, 60Hz
Q2, Q3 – 250A, 440VAC, 3P+E, 60Hz

Sockets 440VAC:
Q5 – 125A, 440VAC, 3125-6h, 3P+E, 60Hz
Q6, Q7 - 63A, 440VAC, 363-11h, 3P+E, 60Hz
Q8, Q9 – 32A, 440VAC, 332-11h, 3P+E, 60Hz
Q10, Q11 – 16A, 440VAC, 316-11h, 3P+E, 60Hz

Sockets 220VAC:
Q21, Q22 – 63A, 220VAC, 316-9h, 3P+E, 60Hz
Q23, Q24 – 32A, 220VAC, 332-9h, 3P+E, 60Hz
Q25, Q26, Q27, Q28 – 16A, 220VAC, 316-9h, 3P+E, 60Hz
Q29, Q30 – 16A, 220VAC, 216-6h, 2P+E, 60Hz

Sockets 110VAC:
Q41 – 16A, 110VAC, 316-4h, 3P+E, 60Hz
Q42, Q43 – 16A, 110VAC, 216-4h, 2P+E, 60Hz

NAVIGATION EQUIPMENT

1 off S-Band ARPA radar, Furuno FAR-2837S
1 off X-Band ARPA radar, Furuno FCR-2827
2 off DGPS for navigation Furuno GP-150
1 off Furuno TECDIS T-2136 + Conning
3 off Gyro, Anschutz 22
1 off Echo Sounder Furuno FE-700
1 off Echo Sounder Kongsberg EA-600, 3 transducers
1 off Furuno DS-80 Doppler log
1 off AIS Furuno FA-150
1 off DP system Kongsberg SDP 22 AUTR
2 off Kongsberg Seatex MRU 5
2 off Gill Wind sensors
1 off Radius 1000 incl 1 x interrogator and 1 x Radius 700
1 off DGNSS Kongsberg Simrad DPS 232
1 off DGNSS Kongsberg Simrad DPS 132
1 off Inertial Navigation Kongsberg Seapath 200
2 off Kongsberg HIPAP 501 w / Cymbal acoustic Protocol
1 off available HPR trunk

COMMUNICATION EQUIPMENT

1 off Sailor CU 5000MF/HF SSB Radio Station
1 off Furuno NX-700B
2 off Inmarsat C Sailor H 2095C
1 off Fleet 77
1 off VSAT system
2 off fixed VHF Furuno RT5022 with DSC
3 off fixed VHF Sailor RT2048

1 off fixed VHF Airband radio Jotron TR-710
2 off VHF Airband radio portable ICOM IC-A6
1 off Radio Beacon Tele Supply TS-1B
5 off fixed UHF Motorola GM-380
6 off Portable UHF Motorola GP-380
ClearCom

TELEPHONE SWITCH BOARD:

Intercom: Alcatel – Lucent telephone system with line to each cabin + Ulstein Public address system.
5 portable DECT telephones with internal and external Line for client / ROV / Medic. Emergency telephones Bridge x 3, ECR and propulsion room.

FIRE FIGHTING SYSTEM:

According to Class requirement
Water Mist system in Engine Room, Incinerator room & Galley

Golden Energy Offshores SX 130 series General

Golden Energy Offshores SX 130 series are state of the art vessels with high capacities and good station keeping capabilities.
The hull form, with the ULSTEIN X-BOW®, and the diesel electric propulsion system, ensures exceptional performances with regards to fuel consumption, sea keeping, station keeping, speed, and stability.
Low fuel consumption with low emissions and a ballast treatment plant makes the vessels environmental friendly.
The propulsion system comprises two azimuth type propellers, each driven by an electrical motor.
Two tunnel thrusters and one azimuth are installed in the fore part of the Vessel.
The compliance with IMO Resolution MSC.266(84) Code of safety for special purpose ships will allow the vessel to have more charterers personnel onboard if required.
A ROV hangar is included in the vessel design, to allow for operation of 2 x WROV systems in sheltered conditions. 2 x Integrated AHC LARS systems has been installed to ensure safe effective operation of the ROVs. 3 split hangar doors on each side and a roller gate on the aft side of the hangar, provide the required access to the hangar. Umbilical winches are installed below Main Deck.
The 150T AHC Offshore Crane located on SB side has access to approx. 80 % of Main Deck @ 75T SWL, and almost the entire deck @ 50T SWL. The Offshore Crane can operate over the side, but also through the 7.2 x 7.2m moonpool with damping bulkheads on four sides. This same moonpool is prepared with interface and structural enforcement for a Module Handling Tower.
A helideck certified for Sikorsky S-92 Helicopter has been installed to improve logistic possibilities of personnel and spare parts.

Chartering & Operation Managers:

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