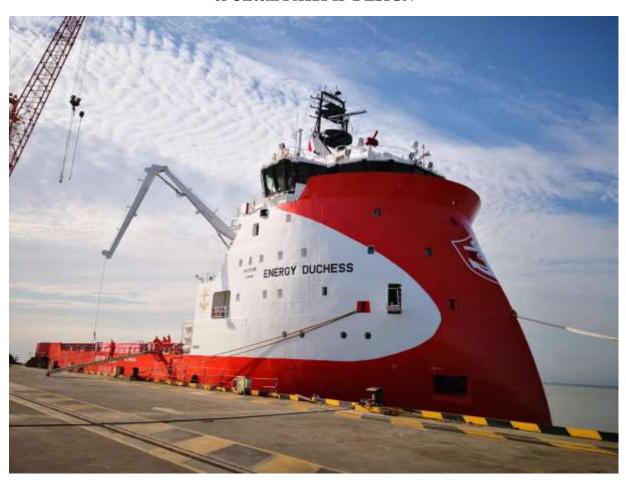


# **MV Energy Duchess** of Ulstein PX121 H DESIGN



### TECHNICAL OUTLINE SPECIFICATION

# MULTIPURPOSE FIELD SUPPLY-, PIPE CARRIER, SPECIAL PURPOSE VESSEL

Rev.: 21/08/2019

Yard: Hull # 1023 @ ROC Delivered 27.05.2019

Name of ship: Energy Duchess

Port of registry: Aalesund

Distinctive number or letters: LAWS7

**IMO Number: 9740744** 

Maritime Mobile Service Identity (MMSI): 259 032 000

**DNV ID: 34240** 



#### MAIN DESCRIPTION

#### **MEASUREMENTS**

Type : MULTIPURPOSE FIELD / PLATFORM SUPPLY VESSEL.

Classification:

**DNV** \*1A1, SF, Fire Fighter (I), Offshore Service Vessel, SPS, BIS, CLEAN DESIGN, COMF (V-3), DK(+), DYNPOS AUTR, E0, HL (2,8), LFL(\*),

NAUT OSV (A), OILREC

ERN 99.99.88.78

Length o.a. : 83,318m
Breadth mld. : 18,00m
Design draught : 6.0m
Draught max. : 6,70m
Moulded draught to M.D. : 8,00m

Lowest service draft : 3,3 / 4,2m (Cargo ship / SPS)

DWT : 3956,5T Gross Tonnage : 3795 Net Tonnage : 1275

Deck load, VCG : 1960 / 1750T (Cargo ship / SPS)

#### **CARGO CAPACITIES**

#### **DISCHARGE RATES**

Work/Cargo Deck area: 858m<sup>2</sup> (L 50,4 x B 15 + L 7 x B 14,5)

Usable Deck area: 850m<sup>2</sup>

Deck strength: 10t/m² aft of #35, 5t/m² elsewhere

Fresh Water	:	1061m³			200m³/hour -	9 bar
Fuel Oil	:	1329m³	@ 90%	- 8359 bbl	200m³/hour -	9 bar
Liquid mud	:	1294m³	Sg. 2,8, 10 comb tks	- 8140 bbl	2x 75m³/hour -	24 bar
Brine / Slop	:	1294m³	Sg. 2,8, 10 comb tks	- 8140 bbl	75m³/hour -	18 bar
ORO	:	662m³		- 4163 bbl	2 x 75 m <sup>3</sup> ,24 bar & 4x75 m <sup>3</sup>	9 bar/hour
DW/ballast	:	1571m³			200m³/hour -	9 bar
Methanol	:	155m³	4 tanks	- 976 bbl	2 x 75m <sup>3</sup> /hour -	9 bar
Baseoil	:	267m³	2 tanks	- 1680 bbl	150m³/hour -	9 bar
Cement/barite	:	255m³	4 tanks	- 9005 Ft <sup>3</sup>	2 x compr. 30 m <sup>3</sup> /min	5,6 bar
Slop	:	506m³	4 comb tks	- 3187 bbl	2x75m³/hour -	24 bar
Foam	:	8,8m³				

Height of cargo rail: 4m

All mud / brine tanks have agitators. Tank washing system with hot/ cold water and chemical injection in washing water for mud and brine tanks.

Inert Gas Generator installed, capacity: 11 Nm<sup>3</sup>/h with 97% nitrogen (N<sub>2</sub>) purity

Flow meter for Fuel Oil (w. print) and FW.

Loading and discharge stations on both sides amidships and aft.

Lashing points on Main Deck;

32 x low lashing points SWL 8T on cargo rail 1200 mm and 200 mm from main deck

28 x high lashing points SWL 8T on cargo rail 2750 mm from main deck

28 x low lashing points SWL 10T on cargo rail 1000 mm and 200 mm from main deck

28 x lashing points in main deck for pipe support

14 x rollers (6 each side and 2 astern) for tugger wire arranged in cargo rail



#### **MACHINERY - PROPULSION**

#### PERFORMANCE @ draft 4,8m

Main eng. : 2 x Caterpillar 3512C 1628 kW each Main eng. : 2 x Caterpillar 32C 994 kW each Emergency gen. : 99 kW Propellers : 2 x Azipull 85, CP 1700 kW each Bow thruster: 2x Tunnel thr. CP 880 kW each Full speed (all generators running) :  $14,5 \text{ kts} \sim 20,1 \text{ mt/day}$ Service speed/cons. :  $13 \text{ kts} \sim 12,9 \text{ mt/day}$ ECO high speed :  $11,5 \text{kts} \sim 10,3 \text{ mt/day}$ ECO medium speed :  $10,8 \text{kts} \sim 8,6 \text{ mt/day}$ Eco speed/cons. :  $10,5 \text{ kts} \sim 7,7 \text{ mt/day}$ ECO slow speed :  $10 \text{ kts} \sim 6,7 \text{ mt/day}$ 

DP nice weather 2 gen online : 5 mt/day
DP med. weather 2 gen online : 6 mt/day
DP rough weather 4 gen online : 6,6 mt/day
Port consumption : 1,4 mt/ day

#### **DECK/RESCUE EQUIPMENT**

#### **ACCOMMODATION**

Lifesaving equipment according to NMA requirement 1 off Fast Rescue Craft: Mare 600 FRB, inboard diesel

1 off (SOLAS approved) TTS Davit

Life rafts : 3x20 pers. each side

Survival Suits : 30 Life Jackets : 34 **Tugger Winches** : 2 x 10t : 2 x 10t Capstans Windlass/Mooring : 1 double 15t Cranes : 3t@18m Incinerator : 1 off Waste Compactor : 1 off

Total : 30 persons

Cabins : 16 x 1 (single) bed cabins Cabins : 7 x 2 (double) bed cabins

Day room Smokers : 1off, B deck Day room No smokers : 1 off, A deck Mess room : 1 off. A deck Hospital : 1 off, Main deck : 1 off, Main deck Reception : 1 off, Main deck Laundry : 1 off, Main deck Gymnasium : 1 off, C deck Ship's office Conference room : 1 off, C deck



#### **REEFER SOCKETS ON MAIN DECK:**

6 pcs 200V-260V 16A 2-phase+ground type QX7012 midship port side frame #39 6 pcs 200V-260V 16A 2-phase+ground type QX7012 midship starboard side frame #39



Reefer Connection PS



Reefer Connection SB



Reefer Connection PS



Reefer Connection type

#### **NAVIGATION EQUIPMENT**

1 off S-Band ARPA radar, 26" color display

1 off X-Band ARPA radar, 26" color display

1 off 22" Radar slave Monitor

2 x DGPS for navigation

1 x ECDIS system, + Conning

3 x Gyro

1 off Echo Sounder

1 off Doppler speed Log

1 off DP system AUTR

3 off MRU's

3 off Wind sensors

2 off Seatex DPS 110

1 off Cyscan Mark IV Laser DP reference system

#### **COMMUNICATION EQUIPMENT**

1 off MF/HF SSB Simplex Radio Station w/ DSC

1 off Navtex receiver

2 off Inmarsat C (with SSAS & LRIT)

Inmarsat Fleet Broadband

1 off VSAT system

2 off VHF with DSC

1 off VHF handset

3 off portable UHF's

3 off fixed UHF's

# TELEPHONE SWITCH BOARD: FIRE FIGHTING SYSTEM:

Intercom: Ulstein VCOM According to Class requirement

Fire fighting in Engine Room by Water mist /

Novec 1230 and foam

In Incinerator Room and Paint Store by sprinkler









# Golden Energy Offshores PX 121 H series General

Golden Energy Offshores PX 121 series are state of the art new 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, stability and cargo capacity.

Low fuel consumption with low emissions and a ballast treatment plant makes the vessels environmental friendly.

The cargo systems ensure safe and efficient loading and discharging of the Vessel.

The propulsion system comprises two azimuth type propellers, each driven by an electrical motor. Two tunnel thrusters are installed in the fore part of the Vessel.

The vessels have very large deck capacities for this class of vessels and are prepared with foundation for crane and can perform as a construction vessel. It has also been prepared for installation of ROV for survey and underwater inspections. 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.

The vessel has the notation FiFi1 and can perform firefighting operations. Oil rec notation ensures the vessel will be able to assist in case of oil spill at sea.

Compliance with MEPC 197(62) Inventory of Hazardous Materials ensures the vessel is built environmental friendly.

#### **Chartering & Operation Managers:**

## Golden Energy Offshore Management AS,

St. Olavsplass 1 N-6002 Ålesund, Norway.

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