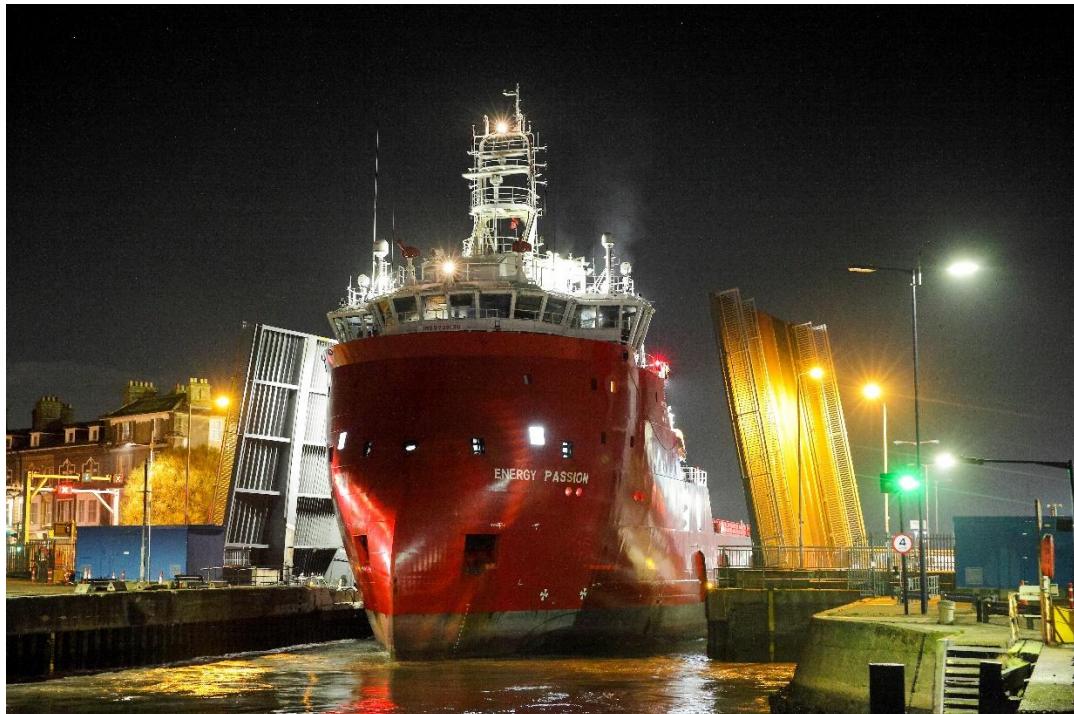


MV Energy Passion of Ulstein PX121 DESIGN



TECHNICAL OUTLINE SPECIFICATION

MULTIPURPOSE FIELD SUPPLY-, PIPE CARRIER, SPECIAL PURPOSE VESSEL

Rev.: 07/01/2026

Yard: Hull #571 @ Cosco Guangzhou Shipyard, China
Delivered 23/08/2016

| | |
|--|----------------|
| Name of ship: | Energy Passion |
| Port of registry: | Ålesund |
| Distinctive number or letters: | LAVC8 |
| IMO Number: | 9709130 |
| Maritime Mobile Service Identity (MMSI): | 257 416 000 |
| Lloyds ID: | 9709130 |



MAIN DESCRIPTION

Type : PLATFORM SUPPLY VESSEL.
 Classification:
 • LR X 100 A1 Offshore Supply Ship, Firefighting 1
 2400 m³/h with waterspray HNLS
 IWS ECO (TOC) LMC UMS DPA (AA)
 ERN 99.99.94.86

MEASUREMENTS

| | |
|-------------------------|-----------|
| Length o.a. | : 83,4m |
| Length p.p | : 79,553m |
| Breadth mld. | : 18,00m |
| Design draught | : 6,0m |
| Draught max. | : 6,70m |
| Moulded draught to M.D. | : 8,00m |
| Lowest service draft | : 3,3m |
| DWT | : 4138T |
| Gross Tonnage | : 3638 |
| Net Tonnage | : 1295 |
| Deck load, VCG | : 1950T |

CARGO CAPACITIES

DISCHARGE RATES

Work/Cargo Deck area: 858m² (L 50,4 x B 15 + L 7 x B 14,5)

Usable Deck area: 850m²

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

Cargo tks : Vessel has 10 x combi tanks for mud/brine /slop/ etc.

| | | | | |
|---------------|--|------------------------|-------------------------------------|---------|
| Fresh Water | : 576m ³ | | 0 - 200m ³ /hour - | 9 bar |
| Fuel Oil | : 1464m ³ | - 9208 US bbl | 0 - 200m ³ /hour - | 9 bar |
| FO giveaway | : **1000m ³ | - 6289 US bbl | | |
| Liquid Mud | : 1293 m ³ total volume | - 8132 US bbl | 2x 0 - 75m ³ /hour - | 18 bar |
| (Water based | : *1163m ³ i.e. @ 90% Sg. 2,8 | - 7315 US bbl) | 2x 0 - 75m ³ /hour - | 18 bar |
| (Oil based | : *800m ³ | - 5031 US bbl) | 2x 0 - 75m ³ /hour - | 18 bar |
| Brine / Slop | : 1293m ³ i.e. @ 90% Sg. 2,8 | - 8132 US bbl | 0 - 75m ³ /hour - | 18 bar |
| DW/ballast | : 1446m ³ | | 0 - 200m ³ /hour - | 9 bar |
| Methanol | : 150m ³ 4 tanks | - 943 US bbl | 2 x 0 - 75m ³ /hour - | 9 bar |
| Baseoil | : 257m ³ 2 tanks | - 1616 US bbl | 0 - 150m ³ /hour - | 9 bar |
| Cement/barite | : 260m ³ 4 tanks | - 9181 Ft ³ | 2 x compr. 30 m ³ /min.- | 5,6 bar |
| Slop | : 506m ³ 4 comb tks | - 3187 US bbl | 2 x 0-75m ³ /hour - | 18 bar |
| Foam | : 1,5m ³ | | | |

* Max capacity of each product

** According to IOPP regulations



Height of cargo rail: 4m

All mud / brine tanks have agitators.

Inert Gas Generator installed, capacity: 100 Nm³/h with 97% nitrogen (N₂) purity.

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

Loading and discharge stations on both sides amidships and aft.

Work air on Main Deck: 7 bar

Lashing points on Main Deck:

16 x lashing points (A) SWL 5T on cargo rail

28 x lashing points (B) SWL 5T on cargo rail

18 x flush D-ring (A) lashing points SWL 10T on cargo rail

6 x flush D-ring (B) lashing points SWL 5T on cargo rail

30 x deck socket for lashing

12 x rollers (6 each side) for tugger wire arranged in cargo rail

MACHINERY -PROPELLUSION

Main eng.: 2 x Caterpillar C3512 1630 kW each
 Generator: 2 x Leroy Somer LSA 52.2 M60/4p
 Main eng.: 2 x Caterpillar C32 994 kW each
 Generator: 2 x Leroy Somer LSA 50.1 M60/4p
 Emergency gen. :Caterpillar C4.4, 99 ekW
 Propellers : 2 x Schottel 1,600 kW each
 Bow thruster: 2x Tunnel thr. CP Schottel 880 kW each

PERFORMANCE @ draft 4,8m

| | | |
|-------------------------------|--------------|----------------|
| Service speed/cons. | : 13 kts | ~ 15,5 mt /day |
| ECO slow speed | : 10 kts | ~ 7 mt/day |
| DP nice weather 2 gen online | : 4 mt/day | |
| DP med. weather 2 gen online | : 6 mt/day | |
| DP rough weather 4 gen online | : 6,6 mt/day | |
| Port consumption | : 1 mt/ day | |

DECK/RESCUE EQUIPMENT

Lifesaving equipment according to NMA requirement
 1 off MOB: Neptune NPT 40R, 6 pax, inboard diesel
 1 off (SOLAS approved) TTS Davit
 Life rafts : 2x20 +1x6pers. each side
 Survival Suits : 32 Viking PS 2014
 Life Jackets : 30 Viking PV 9520
 Tugger Winches : 2 x 10t
 Capstans : 2 x 10t
 Windlass/Mooring : 1 double 15t
 Cranes : TTS 3t@18m
 Waste Compactor : 1 off
 FIFI1 – 2 x monitors : 3.820m³/hr – 120m

ACCOMMODATION

| | |
|---------------------|------------------------------|
| Total | : 26 persons |
| Cabins | : 14 x 1 (single) bed cabins |
| Cabins | : 6 x 2 (double) bed cabins |
| Day room Smokers | : 1 off, A deck |
| Day room No smokers | : 1 off, A deck |
| Mess room | : 1 off, A deck |
| Hospital | : 1 off, Main deck |
| Laundry | : 1 off, Main deck |
| Gymnasium | : 1 off, Main deck |



REEFER SOCKETS ON MAIN DECK:

16A, 200-250V, 50-60Hz

6 pcs of reefer sockets 230 v / 16amps, located close to tugger winches, 3psc each side.

6 pcs of reefer sockets 440v / 32 amps, located behind buoyancy room in crash barrier, 3psc each side

220V SB behind accommodation



220V PS behind accommodation



220V PS behind buoyancy-room



220V SB behind buoyancy-room



NAVIGATION EQUIPMENT

- 1 off S-Band JMCJMA -9132-SA ARPA radar
- 1 off X-Band JRC JMA -9122-9XA ARPA radar,
- 1 x JRC JAN-901B-FOR DGPS for navigation
- 2 x Transas Navi-Sailor 4000 MFD ECDIS system
- 1 x Magnetic compass Yokogawa SR-165
- 3 x Yokogawa CMZ900 Gyro
- 1 off Echo Sounder
- 1 off Doppler speed Log
- 1 off DP system K-POS DP 2
- 3 off MRU D
- 3 off Windbserver II sensors
- 2 off Seatex DPS 110
- 1 off Cyscan Mark IV Laser Pos Ref System
- 1 off Mini RadaScan Type 3 – Pos Ref System

COMMUNICATION EQUIPMENT

- 1 off JRC JSS-2150 MF/HF SSB w/ DSC
- 1 off JRC NCR-333 Navtex receiver
- 2 off Inmarsat C (with SSAS & LRIT)
- 1 off JRC JUE-251 Fleet Broadband
- 1 off KVH VSAT system
- 2 off JRC JHS-770S VHF with DSC
- 1 off JRC JHS-770S VHF
- 3 off Entel HT 544 portable GMDSS VHF's
- 1 off Entel HT 649 portable VHF
- 3 off Entel HT 743 portable UHF's
- 1 off fixed Motorola GM-360 UHF





TELEPHONE SWITCH BOARD:

Intercom: Ulstein VCOM

FIRE FIGHTING SYSTEM:

According to Class requirement
Fire fighting in Engine Room by Water mist (local application) / CO2
In Paint Store by sprinkler





GOLDEN ENERGY OFFSHORE



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GOLDEN ENERGY OFFSHORE

Golden Energy Offshores PX 121 series General

Golden Energy Offshores PX 121 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, stability and cargo capacity.

Low fuel consumption with low emissions 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 ves-

The vessel has the notation FiFi1 and can perform firefighting operations.

Compliance with MEPC.197(62) Inventory of Hazardous Materials ensures

Compliance with MELC 197(82) Inventory of Hazardous Materials ensures the vessel is built environmental friendly.

Chartering & Operation Managers:

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