



255ft/ 78m Norwegian Ice-Class Seismic Research Vessel Available for Conversion

Yard no 234 built 1993 by Ulstein Verft AS, Norway



The vessel is designed by Ulstein International AS in close cooperation with Western Geophysical, and is executed by Ulstein Verft AS as yard no. 234. The UT 743 design is developed in accordance with the demanding requirements for silent operation at high capacity production. The vessel features a compact and efficient layout, providing a comprehensive arrangement of mechanical and electronic seismic outfitting, and a highly flexible, redundant and powerful propulsion and machinery package.

The vessel is built to Det norske Veritas Class + A1, Ice-C. E0, Heldk., and to international rules and regulations as applicable for the subject type of vessel. Further the vessel satisfies IMO Res. A 468 (XII) as a general maximum noise level in laboratories and related areas. Special consideration has been taken from design stage and through out the building program in order to minimise hydroacoustic noise generated by the vessel. All major roating machinery installations are resiliently mounted, and vibration characteristics of the steel structure and hull is made without interference from machinery and propulsion plant.

Other shipnames: "Eastern Spirit"

2001: Renamed: "Eastern Spirit"

2006: Renamed: "Western Spirit"

2017: Still active - [IMO 9050450](#). Owner: Edison Quest Offshore, Cut Off LA, USA. Manager: Westerngeco, London, UK.

Flag: Panama

MAIN DIMENSIONS

Length over all: 78 m

Length between p.p.: 67,7 m

Breadth, moulded: 17,0 m

Dept Main Deck: 7,6 m

Design draught: 5,4 m

Scantling draught: 5,9 m

TONNAGE & CAPACITIES

Gross Tonnage (1969) approx.: 3700 GRT

Fuel oil (Ex.sys.tks.) approx.: 1400 m³

WB approx.: 850 m³

FW approx.: 220 m³
Cable oil, clean oil: 20 m³
Cable oil, dirty oil: 20m³
Work deck area (Main deck): (8000 sq.ft) 740 m²
Recording room area: 200 m²
Helideck AS 332 Super Pampa. CAA/DnV

ACCOMMODATION

Accommodation 56 persons in total, of which:

- 18 one-man cabins
- 18 two-man cabins
- 1 two-bed hospital

PERFORMANCE

Trial Speed (4,5): 15,6 knots
Design pull, 5 kn: 30 tonnes
Max.pull, 5 kn: 50 tonnes

TECHNICAL DATA

Bergen Diesel, main engines: 2 x BD 32 M& each of 3300 BHP at 750 rpm

Ulstein Propeller: Twin screw propulsion comprizing: 2 x 1500 AGSC controllable pitch propulsion plants, each with: Low noise, 4-bladed secwed CP-propeller, driven through a reduction gearbox with two-speed PTO for shaft generator.

Ulstein Propeller, bow thruster: 150 TV, 590 kW/800 HP, el.driven

Ulstein high lift rudders: 2 off

Shaft generator: 2 x 2000 kVA, 450 V, 60 Hz

Aux.generator: 1 x 1338 kVA, 450 V, 60 HZ, driven by one
Caterpillar 3512 TA, diesel engine, rated at 1125 HP at 1800 rpm
Clean power: 2 x 73,6 kVA, 208 V, 60 Hz, SCFM, 2000 psi, driven
by Caterpillar 3516 Diesel engine
Life boats: 2 x 48 persons enclosed
Life rafts: As per Solas
MOB boat: 1 x Seabear 23, with inboard diesel. Davit deployed
Work boat: 1 x Seabear 23, with inboard diesel Davit deployed
Norwinch Windlass: Type AV-33/38-36 K3

Ulstein Maritime Electronics:

Switchboards

- Electronic remote control system

Main Propeller (PROCON)

- Joystick control system (POSCON)

- Electronic remote control system

- Bowthruster (SITCON)

- Bridge control consoles

- Engine room console

- Starters (for el. motors)

- El. test board

- Engine room telegraph

- Microprocessor based alarm system with dead man system and printers)

ELECTRONIC EQUIPMENT

Radar: Furuno FAR-2822 / XBand, ARPA - 120 NM Ranger x-band
(3 cm), ARPA, 72 miles

Radar: Furuno FAR 2830S, SBand ARPA-96 NM Range

Inmarsat: JRC JUE 45A MKII Voice/Telex/Fax

Radio /to GMDSS Requirements):

Skanti TRP 8750 Duplex SSB MF/HF, 750 watt.

Thrane & Thrane TT3200 Radio Telex System

Sailor RT2047 radiotelephone, simplex and duplex operation

Skanti VHF radiotelephone TRP 3000 simplex/semiduplex

Skanti TR6102 aeronautical AM/VHF

Skanti DSC VHF radio, TU 3000/XH 5131

Ships Navigation:

Robertson Gyrocompass RGC 11

Robertson disc navigation system ECDIS

Robertson AP9 MKII Autopilot

Furuno FSN-50 Transit Satellite receiver

Furuno GP500 GPS Satellite receiver

Furuno LC 90 MKII Loran C navigator

Furuno FD 527 VHF Direction Finder JMC MF/HF Direction Finder,
DR-230

Furuno FE 680 Echo Sounder - Range to 2100 meters

Furuno Fax 208A Weather facsimile

Ben Marine Electronmagnetic Log

Thrane & Thrane standard C inmarsat (telex) system TT 3000 C



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