



Eidesvik



Northern Crusader

The **ME 303 Mk II** – design, Anchorhandling Tug Supply Vessel, is a modern multipurpose support vessel, designed to fulfil our clients requirements in all aspects of offshore work. She is a large anchorhandling and towing vessel, also equipped for stand by duties, fire fighting and oil recovery operations, with good capacities for carrying general cargo as well as different dry and liquid cargo. The high horsepower MV *Northern Crusader* has been used for trenching- and ploughing operations on many occasions, and is a typical all-round vessel for field support in deep water and harsh environments.

Call sign LDYP
 Classification DnV, +1A1, +MV, EO,
 Tug / Supply, OIL
 REC, SF, Fi-Fi II
 Design ME 303 MkII
 Built U.D.L., Singapore
 Delivered 1992
 Flag Norwegian
 Port of Registry Aalesund, Norway
 Owner Trico Supply ASA

Tonnage

Gross Tonnage 2,335 tonnes
 Net Tonnage 924 tonnes
 Deadweight 2,783 tonnes
 Displacement 5,304 tonnes
 Light Ship 2,521 tonnes

Dimensions

Length, OA 73.60 metres
 Length, BP 63.60 metres
 Breadth, Moulded 16.40 metres
 Depth, Moulded 8.00 metres
 Draft, Summer 6.85 metres
 Freeboard, Summer 1.16 metres
 Draft, Minimum 4.55 metres

Fi-Fi Capacity

Fire monitors 2 x 3,600 m³ / hour
 Vertical length 110 metres (min.)
 Horizontal length 180 metres (min.)

Propulsion / Positioning

Main Engines 15,612 BHP
 (2 x Wärtsilä
 Vaasa 3,346 BHP)
 (2 x Wärtsilä Vaasa

..... 4,460 BHP)
 Fuel Type Gas Oil
 Propellers 2 x controllable Pitch
 Propellers, dia 3,600
 mm in nozzles
 Thrusters 1 x 1,088 BHP / 800 kW
 Retractable Azimuth
 (forward)
 1 x 1,000 BHP / 735 kW
 c.p.p. in tunnel (forward)
 1 x 1,200 BHP / 882 kW
 c.p.p. in tunnel (aft)
 Rudders Spade Rudders of U.D.L.
 design
 Joy Stick Poscon Joy Stick
 Manoeuvring System

Speed / Consumption

Idling / Stand by Abt. 1.6 - 5.0 tonnes /
 24 hrs. on Azimuth only
 10 knots Abt. 10.0 tonnes / 24 hrs.
 12 knots Abt. 12.5 tonnes / 24 hrs.
 16 knots Abt. 45.0 tonnes / 24 hrs.

Bollard Pull

Continuous 178.0 tonnes
 (DnV-approved)

Generators

Shaft Generators 2 x 1,800 kW
 Diesel Generators 2 x 0,288 kW
 Emergency Generator 1 x 0,120 kW
 Voltage 440 V, 60 Hz

Deck Load Capacity

Deck Area 554.6 m² (41.70 metres x
 13.30 metres)
 Deck Load 1,200 tonnes (max.)
 (Centre of gravity 1.0
 metre above deck)
 Deck Strength 5.0 tonnes / m²
 Cargo Rail, Height 2.60 metres forward / 1.10
 metres aft

Towing / Anchor-handling Equipment

Main Tow Wire 1,400 metres x 76 mm
 Spare Tow Wire 1,400 metres x 76 mm

Work Wires 1 x 750 metres x 76 mm and 1 of 90 metres x 76 mm (to be advised)

Storage Reels 1 x 1,200 metres x 76 mm wire capacity

..... 1 of 2 x 1,800 m x 74 mm wire capacity

Winch Brattvaag Tripple-drum of 300 tonnes pull / 400 tonnes

..... Break load

Winch Capacity Towing drum: Abt. 1,400 metres x 76 mm wire

..... Anchor handling drums: Abt. 1,400 metres x 76 mm wire

Wildcats 2 x 76 mm for rig chain. 1 x 84 mm for rig chain are onboard

..... 1 x 120 mm for rig chain is available but stored ashore

..... Starboard cable lifter has a bearing supporting bracket:

..... 300 tonnes pull x 76 mm chain

..... 272 tonnes pull x 84 mm chain

..... 191 tonnes pull x 120 mm chain

Towing Pins 4 x hydraulic towing pins with flaps. SWL 240 tonnes

Wire-/Chain Stoppers 2 x Standard Karm Forks. Air gap 102 mm. SWL 500 tonnes

..... 2 x Giant Karm Forks. Air gap 165 mm. SWL 750 tonnes

Chain Lockers 2 x 80 m³ = 160 m³ total (abt. 2 x 900 metres of 76 mm rig chain)

Stern Roller 250 cm x 600 cm. SWL 500 tonnes

Pelican Hook 1 x 76 mm wire - SWL 75 tonnes

Grapple 1 x Bel 109/128 - SWL 100 tonnes

Chain Chaser 1 x LWF 17344 - SWL 100 tonnes

Smit Bracket 1 x 250 tonnes SWL - located on forecastle deck

Stopper Shoe 1 x 102 mm - SWL 75 tonnes

Deck Equipment

Capstans 2 x 10.0 tonnes pull

Tugger Winches 2 x 15.0 tonnes pull

Crane 1 Telescopic Crane (S)

..... 5 tonnes on 10.0 metres arm

..... 10 tonnes on 5.0 metres arm

Anchors 3 x 2,000 kgs with 865 metres of 40 mm K3 chain

Tank Capacities

Dry Bulk 284.0 m³

4 tanks (2 x 3,745 ft³ + 2 x 1,270 ft³)

Fresh Water 710.2 m³

Drill Water 816.2 m³

Fuel Oil 1,050.4 m³

Brine 396.7 m³

Max S.G.: 2.8

Liquid Mud 462.8 m³

Max S.G.: 2.8

Base Oil 252.2 m³ (Dual purpose tanks)

Oil Recovery 1,064.2 m³ (NOFO-approved)

Cargo Discharge Rates

Dry Bulk 100 tonnes / hour at 90 metres head 80 psi

Fresh Water 250 m³ / hour at 90 metres head 9 bar

Drill Water 250 m³ / hour at 90 metres head 9 bar

Fuel Oil 250 m³ / hour at 90 metres head 9 bar

Brine 150 m³ / hour at 90 metres head 18 bar

Liquid Mud 150 m³ / hour at 90 metres head 18 bar

Base Oil 100 m³ / hour at 90 metres head 9 bar

Flow Meters Flow meter with print-out facility for fuel oil

Cargo Transfer Connections

Couplings, lines Weco 5", Weco 6" and Avery Hardoll 4"

Several Reducers available on board

Stand by / Rescue

Approved for 300 survivors acc. to NMD/KAD regulations
 Fast Rescue Boats..... 2 x Seabear 23 MkII

Accommodation

Officers/Crew Cabins 7 x 1 berth
 Passengers 3 x 2 berths /
 4 x 2 berths
 Hospital..... 1 x 6 berths

Officer / Crew cabins with shower/toilet. All accommodation is fully air- conditioned

Communication Equipment

Radio GMDSS - Sea area
 A3.
 Raytheon Standard
 STR Radio,
 Includes HF/MF, Inmarsat C and Inmarsat A
 Telex Inmarsat C, Inmarsat
 A and Radio MF/HF-
 telex / DSC
 Telephones Mobile Telephones
 NMT- 900, NMT- 450
 and Inmarsat A
 Telefax Mobile Telephone
 NMT- 900 and
 Inmarsat A
 VHF..... 2 x Raytheon STR
 8400 with DSC
 2 x Sailor RT 2047
 VHF Portable 6 x Motorola MX 1000
 + 3 x GP 900
 UHF Portable 3 x Motorola MT 2100
 Helicopter Transceiver Jotron TR 6102
 Emergency Helicopter
 Radio Beacon Skanti TU 8250 B
 SART 2 of Tron Radar
 transponder 9 GHz
 EPIRB Tron 30 S MKII Cospas-
 Sarsat

Navigation Equipment

Control Poscon Joy Stick
 Manoeuvring System
 Autopilot Anschütz Nautopilot D
 Gyro Compass Gyrostar with repeaters
 Radars 1 x Furuno ARPA FAR-
 2835 S, 10 cm
 1 x Racal BT-361 with
 repeater, 3 cm
 Echo Sounder Skipper ED 161 with
 repeaters
 Satellite Navigator Furuno GP - 500 (GPS)
 Satellite Navigator Furuno GP - 50 Mk - 3
 (DGPS)
 Direction Finder..... Taiyo TD-C 318
 VHF- homer Taiyo ADDF TD-L 1520

 Navtex Receiver..... Furuno NX 500
 Electronic Chart..... Tel chart V 2024
 Log Ben Galatee Marine Mk3

Anti Rolling System

..... 2 x Maritime Engineering
 Anti rolling tanks

Safety Equipment

Acc. to SOLAS for World Wide Operation

Particulars believed to be correct but not guaranteed
 Revision 26.10.98

MV Northern Crusader

- FW
- WB
- FO
- BRINE/W.B.
- MUD
- BULK
- BASE OIL

