

# ATLANTIC EAGLE

ANCHOR HANDLING TUG SUPPLY VESSEL



## Registration

- Built: Halifax Shipyard 1999
- Flag: Canadian
- Official Number: 821333
- IMO Number: 9199103
- Call Sign: VCYK
- Vessel Type: UT 722 Anchor Handling Tug Supply Vessel
- Classification: DNV
- Main Class: \* 1A1 Tug Supply Vessel
- Additional Class: FIFI II, EO, ICE-1C, TMON, SF
- DYNPOS-AUTR, DK(+)/HL(2.5)

## Principle Dimensions

- Length overall: 75.00 m
- Length BP: 64.40 m
- Breadth, moulded: 18.00 m
- Depth, moulded: 8.00 m
- Design draft: 6.00 m
- Maximum draft: 6.20 m
- Gross Tonnage: 3157
- Net Tonnage: 948
- Deadweight: 2200 t

## Machinery

- Main Engines: 2 x 5369 kW (14,400 bhp) Bergen diesel engines

- Propellers: 2 x Ulstein CPP propellers in Kort nozzles
- Rudders: 2 x Ulstein High Lift flap rudders.
- Steering Gear: 2 x independent Ulstein Tenfjord electric-hydraulic steering gear max angle 45, max flap angle 55
- Azimuth Thruster: 1 x 1119 kW (1500 bhp) forward swing-up azimuth thruster, CPP, independently diesel driven
- Forward Tunnel Thruster: 1 x 895 kW (1200 bhp), CPP
- Aft Tunnel Thruster: 1 x 895 kW (1200 bhp), CPP
- Generators: 2 x Shaft, 1920 kW (2574 bhp), 450 V, 60/50 hz
- Auxiliary: 2 x 370 kW (496 bhp), 450 V/230 V, 3-phase, 60 hz

## Control Systems

- Consoles: full navigation console forward
- Full navigation & main winch control console aft, full 360° view from bridge
- 6 camera system, views of decks fore & aft, winch drums, thruster rooms, etc, monitors at fore & aft consoles.
- Joystick: 1 x Ulstein Poscon, independent from DP joysticks with 4 stations
- Sensors: 2 x MRUs - Seatek MRU 5

- 2 x wind sensors
- 2 x Robertson Gyro RGC II

## Performance

- Economic Speed: 11.5 knots
- Super Economic Speed: 10.5 knots

## Towing and Anchor Handling

- Bollard Pull: DNV certified 162 t, continuous bollard pull 171 t, maximum bollard pull 173 t, continuous bollard pull with forward azimuth thruster running
- Winch: Ulstein Brattvaag, 272 t, 3 drums
- Main Towing: 1 x declutchable tow drum Capacity - 1560 m x 76 mm dia. Wire Brake holding on 1st layer - 400 t 1st layer max. pull 270 t @ 0-6.5m/min
- Anchor Handling: 2 x declutchable work drums Capacity - each 1290 m x 76 mm dia. wire Brake holding on 1st layer - 430 tonnes 1<sup>st</sup> layer max. pull 300 tonnes @ 0-6 m/min



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- Storage Drums: 2 x pennant wire storage drums, 15 t line pull @ 0-28 m/min, capacity 1500 m x 76 mm wire 6 x Iceberg towlines, total length 2000 m on storage drums
- Spare Tow Wire: 1 x spare tow wire drum with wire, 15 t @ 0-28 m/min  
Capacity - 1500 m x 76 mm dia. wire
- Cable Lifters: 2 x non-declutchable cable lifters, one for 76mm chain port and one for 84mm chain starboard, fitted outside of the anchor-handling drums Breaking 160 t, Rendering 198 t, Stalling 131 t
- Chain Lockers: 2 x chain lockers each 134 m<sup>3</sup>, total 268 m<sup>3</sup>
- Locker Capacities, 30% broken stowage  
64mm = 2085.14m, 76mm = 1339.9m,  
89mm = 1158.42m, 89mm = 986.94m,  
102mm = 794.92m, 114mm = 760.56m
- Karmforks: 2 x Karmforks, 750 t SWL. Remote control from wheelhouse and aft deck
- Towpins: 4 x Towpins, hydraulic. Remote control from wheelhouse and aft deck.
- Stern Roller: 1 x 6 m x 2.7 m dia., 440 t SWL
- Grapnel: 1 Grapnel x 150 t, Ansel Jones Forgings
- J - Hook: 1 J-Hook x 150 t, Ansel Jones Forgings

## Deck Machinery

- Tuggers: 2 x 15 t @ 0-31 m/min, hydraulic, capacity 100 m x 19 mm wire
- Capstans: 2 x 10 t @ 0-20 m/min, hydraulic, aft main deck.
- Windlass: 1 x 10.8 t @ 0-20 m/min, hydraulic
- Anchors: 2 x Stockless anchors, 2.85 t each
- Crane: 1 x Hydramaskin, 5 t, 13 m hinged arm 1 x 5 t deck crane
- 1 X 4.5 t Allied knuckle boom crane with heave compensation
- FRC Davits: 1 x Hydramaskin heave compensated davit, stbd 1 x Hydramaskin heave compensated davit, port
- 1 x ROV operation w/over side launch

## Discharge Rates

- Potable Water: 250 m<sup>3</sup>/hr - 9.0 bar pressure relief @ 9.7 bar
- Drill Water: 250 m<sup>3</sup>/hr - 9.0 bar pressure relief @ 9.7 bar
- Fuel: 250 m<sup>3</sup>/hr - 9.0 bar pressure relief @ 9.7 bar
- Mud: 75 m<sup>3</sup>/hr - 18.0 bar pressure relief @ 19 bar

- Brine: 100 m<sup>3</sup>/hr - 18.0 bar pressure relief @ 18.7 bar
- Base Oil: 120 m<sup>3</sup>/hr - 9.0 bar pressure relief @ 9.7 bar
- Dry Bulk: 80 m<sup>3</sup>/hr - 5.6 bar, 4 aeration jets per tank 2 Tamrotor compressors, 22.8 m<sup>3</sup>/min each, pressure 5.6 bar. Pressure Relief @ 6.1 bar.

## Capacities/Tankage

- Clear Deck Space: 551 m<sup>2</sup> (may vary due to ROV containers)
- Deck Cargo: 1100 t
- Deck Loading: Cargo deck - 5 t/m<sup>2</sup>  
Anchor handling deck - 10 t/m<sup>2</sup>
- Fuel: 991 m<sup>3</sup>
- Potable Water: 704 m<sup>3</sup>
- Drill Water: 938 m<sup>3</sup>
- Brine/Glycol: 401 m<sup>3</sup>
- Liquid Mud: 417 m<sup>3</sup>
- Base Oil: 200 m<sup>3</sup>
- Dry Bulk: 4 tanks totaling 283m<sup>3</sup>
- Recovered Oil: 1100 m<sup>3</sup>
- Cargo Deadweight: 2200 t
- Tank Washing: 4 x Butterworth, hot and cold water mud tank washing
- Tank Recirculation: All tanks are capable of recirculation
- Tank Agitators: 4 x hydraulic agitators in mud tanks. Also capable of individual recirculation

## External Fire Fighting (FiFi I/II)

- Pumps: 2 x Jason HGTF 1-450800, 3,600 m<sup>3</sup>/hr (Total: 7,200 m<sup>3</sup>/hr)
- Monitors: 2 x Jason FM 400 HD, 3,600 m<sup>3</sup>/hr, (Total: 7,200 m<sup>3</sup>/hr)
- Bridge remote controlled System, DNV FiFi II specifications for operational throw distances
- External drenching system,
- Foam generator portable Turbex MKII, 200 m<sup>3</sup>/min consumption 4.5 L/min
- 6 additional fireman's suits 8 total/ breathing apparatus, spare BA bottles, and recharging compressor.

## Lifesaving

- All equipment as per SOLAS, CCG, and Standby Vessel Letter of Compliance.
- Survivor Capacity: 330 persons
  - Rescue Craft: 2 x Springer MP 271, 20 person capacity, diesel jet FRC.
  - Liferrafts: 6 x RFD, total capacity: 136 persons
  - Rescue Frame: 1 x Daycon Scoop
  - Rescue Basket: 1 x Empra, 6 person

- EPIRB: 1 Tron x Hydrostatic Release
- Sarts: 2 x Tron
- Em.VHF: 3 X Sailor, long life batteries

## Electronics

- Radars: 1 x Furuno 2835S, ARPA, S-band (10 cm), 28 inch display
- 1 x Furuno Far 21 x 7 MU 201CR
- 1 x Furuno FR-1510 MK-3, aft Bridge slave radar
- 1 X Sperry Voice data Recorder
- Auto Pilot: Autopilot 1 x Simrad AP 50 - fully integrated with ECDIS
- Electronic Chart: 1 x Norcontrol SeaMap 1021 - integrated with autopilot, radar, and DGPS
- Gyro(s): 2 x Robertson RGC II, integrated with DP system
- Depth Sounder: 1 x Skipper GDS 101
- Speed Log: 1 x Consilium
- VHF DF: 1 x Taiyo TD-L1550
- Helicopter Beacon: 1 x Skanti TU 820B
- Weather Fax: 1 x Furuno Fax 207
- AIS: 1 x Furuno FA 150
- SSAS: 1 x Trane & Trane

## Communications Equipment

- GMDSS: Sailor, compliant for areas A1, A2, and A3
- Telex/Email: 2 x Sailor Sat 'C' with telex and email
- Aeronautical Radio: 1 x Jotron TR-601
- Helicopter Beacon: 1 x Skanti TU 820B
- Portable UHF's: 3 x Motorola
- Portable VHF's: 2 x Icom
- Aeronautical Radio: 1 x Jotron TR-601
- Cell phone/fax: 2X Telular units & 1 x Sanyo portable
- V-SAT voice and email
- Iridium: 1 x voice
- Internal phone TEC PBX system, all cabins and areas, complete access to each other and all external communications
- P.A. system, all areas of the vessel, inside and outside, sleeping areas if required

## DP Reference System

- DP System: Kongsberg SDP 21, fully redundant system
- Reference Systems: 2 x DGPS Simrad DPS 116
- HIPAP/HPR Simrad 410, 1 x 3,000 m depth
- Transponder Fanbeam Laser - MDL MK III
- DGPS: 1 x Furuno DGPS- GP-37



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## Accommodation

- 4 x 1 berth cabins
- 13 x 2 berth cabins
- 2 x 4 berth cabins
- Total: 38 berths. All cabins with ensuite washrooms.
- Additional Spaces:
  - 1 x Ship's Office, with computer system (networked to Wheelhouse and Engine Control room) and photocopier.
  - 1 x Lounge Area
  - 1 x Smoking Room
  - 1 x Messroom
  - 1 x Hospital, separate berth, examination table, all associated medical equipment required by SOLAS and CCG stand-by regulations.
  - 1 x non-survivors Locker

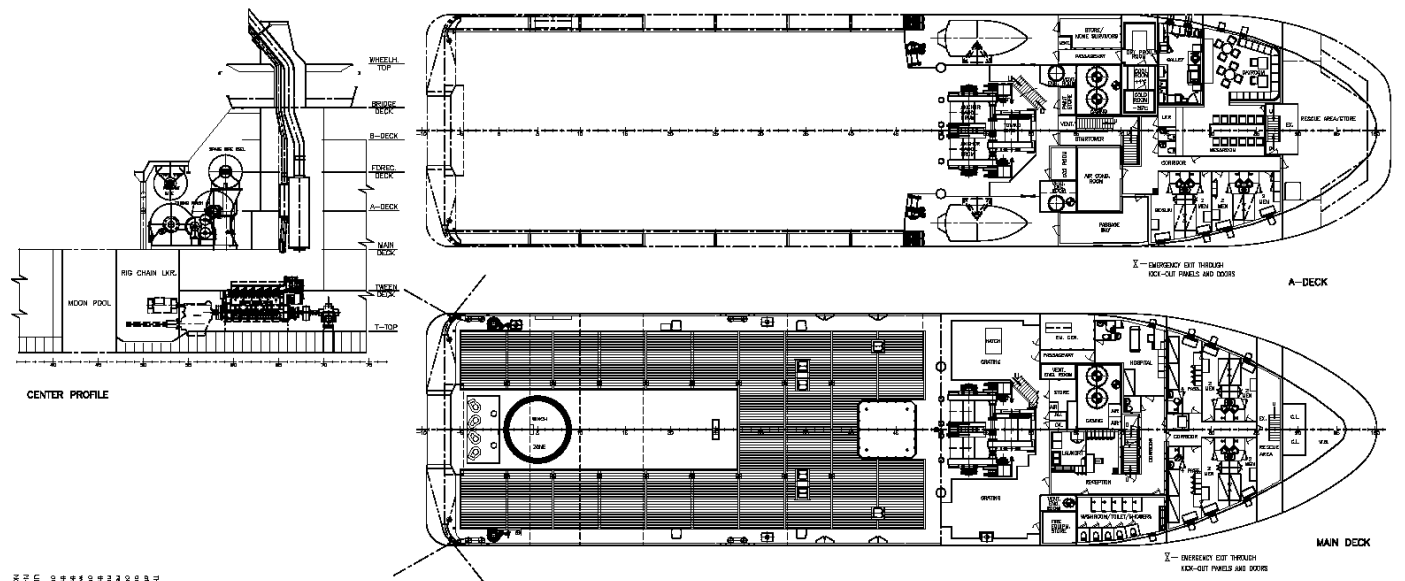
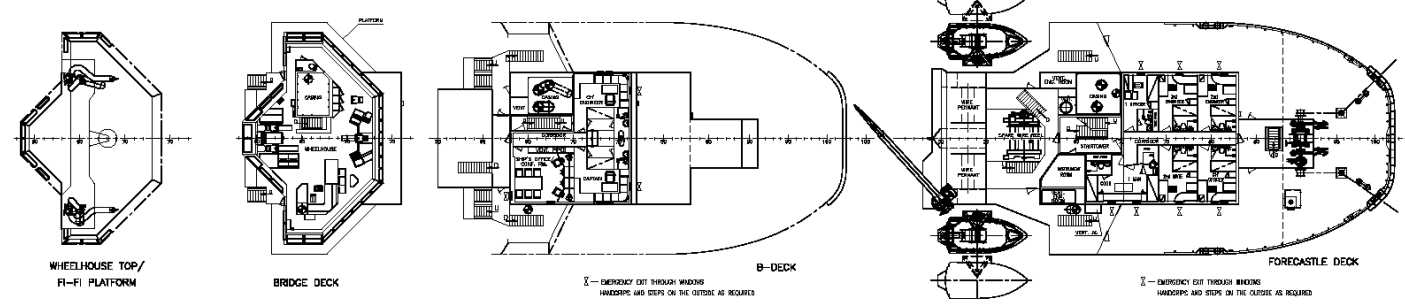
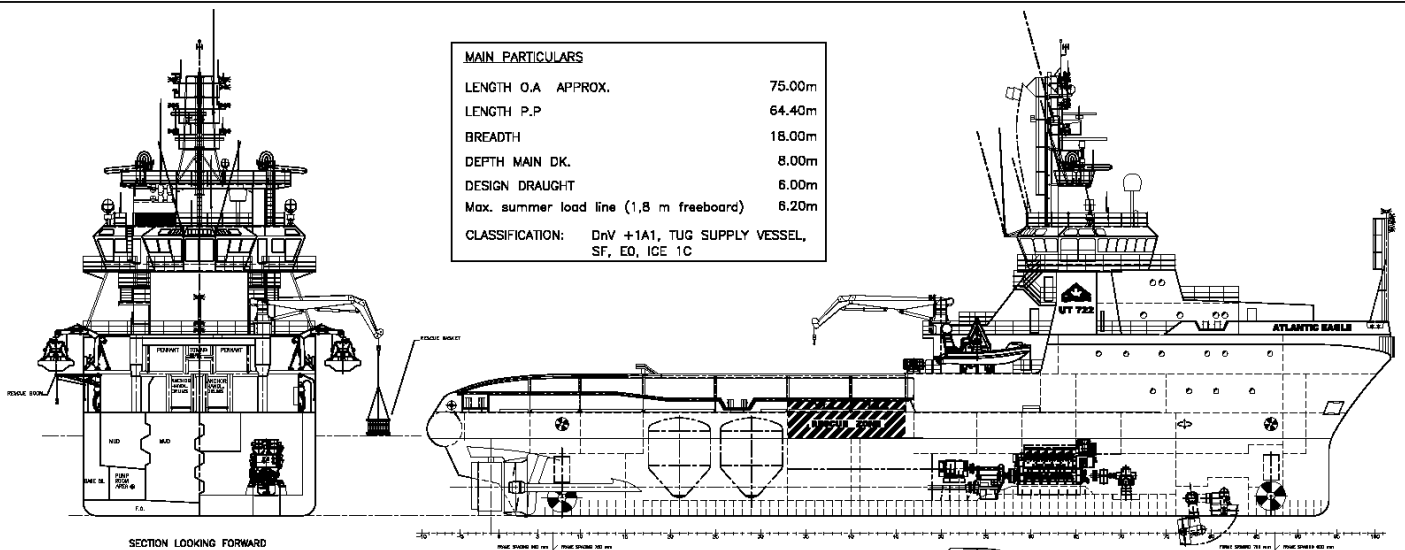
## Miscellaneous

- Two passive roll reducing stability tanks below the main deck
- Approved for the Carriage of Noxious liquids (DNV)
- Approved for the Carriage of Dangerous Goods (Transport Canada).
- Fitted with 1 x 3000 W searchlight forward and 1 x Color light CLO3-12 port aft, all remotely controlled from wheelhouse
- Fitted with moon pool (4.2 m x 42 m) capable of operating a work class ROV
- ROV Operation with 1 x work class ROV system with over side launch in wave heights of 3.5 metres
- Rolls Royce/Coastal 3D Stability Program fitted. Program software is interactive with vessel UMAS tank sounding system. Provides accurate and up-to-date stability info during all vessel loading and lifting operations.

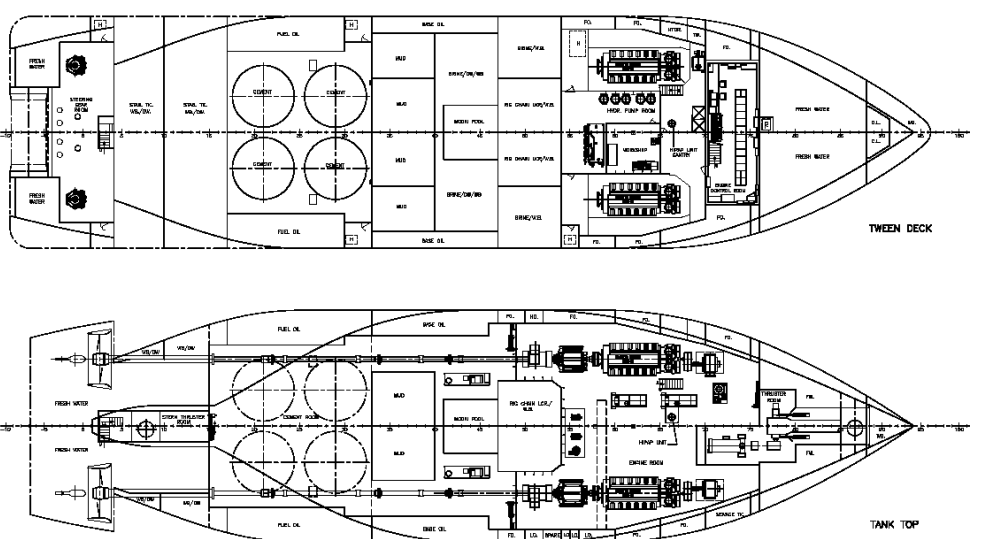


**MAIN PARTICULARS**

LENGTH O.A. APPROX. 75.00m  
 LENGTH P.P. 64.40m  
 BREADTH 18.00m  
 DEPTH MAIN DK. 8.00m  
 DESIGN DRAUGHT 6.00m  
 Max. summer load line (1,8 m freeboard) 6.20m  
 CLASSIFICATION: DnV +1A1, TUG SUPPLY VESSEL,  
 SF, EO, ICE 1C



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