

# MV FISHIONARY: Offshore Aquaculture Support Vessel

## VESSEL DATA

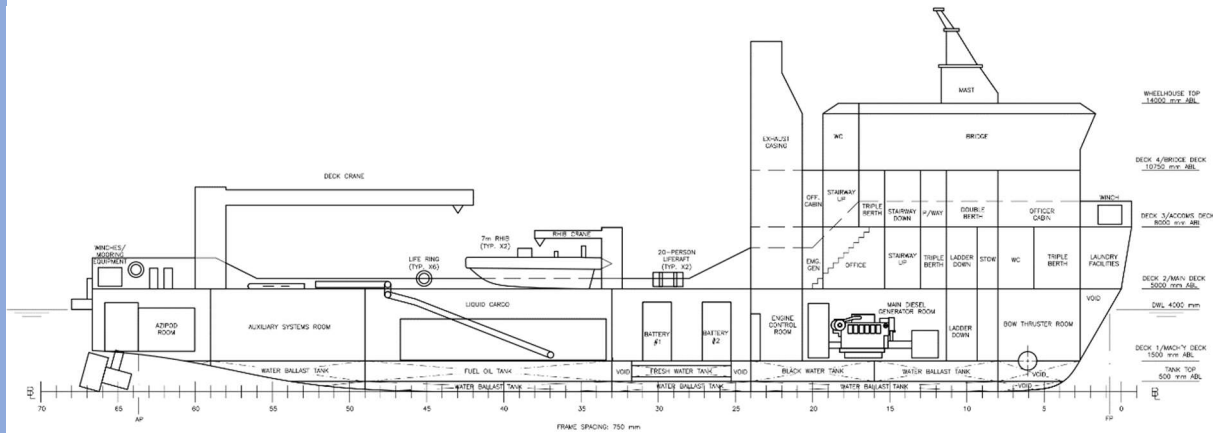
Length Overall	51.5m
Breadth	14m
Depth to Main Deck	5m
Design Draught	3.98m
Cargo Deck Area	150m <sup>3</sup>
Maximum Speed	12 Knots
Complement	17 persons

## CAPACITIES

Fuel Oil	78m <sup>3</sup>
Freshwater	12m <sup>3</sup>
Ballast Water	47m <sup>3</sup>
Dry Cargo	300m <sup>3</sup>
Liquid Cargo	100m <sup>3</sup>

## MACHINERY

- 2 Caterpillar 3512C Generator Sets
- 2 Corvus Energy Blue Whale Batteries
- 2 1500kW Azimuth Propulsors
- 1 300kW Bow Thruster
- 1 FLS CALIGUS R500 De-icer
- 1 AHC Main Deck Crane



## MISSION

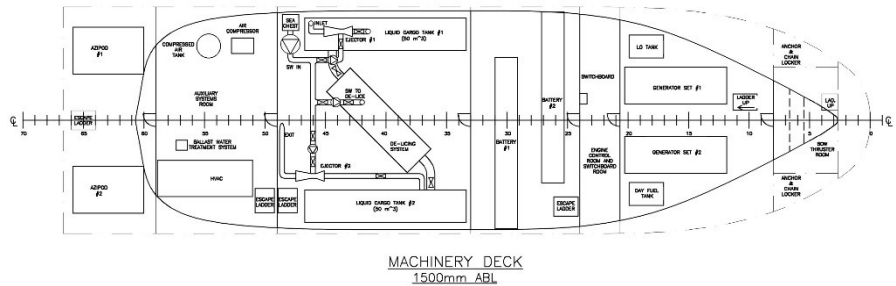
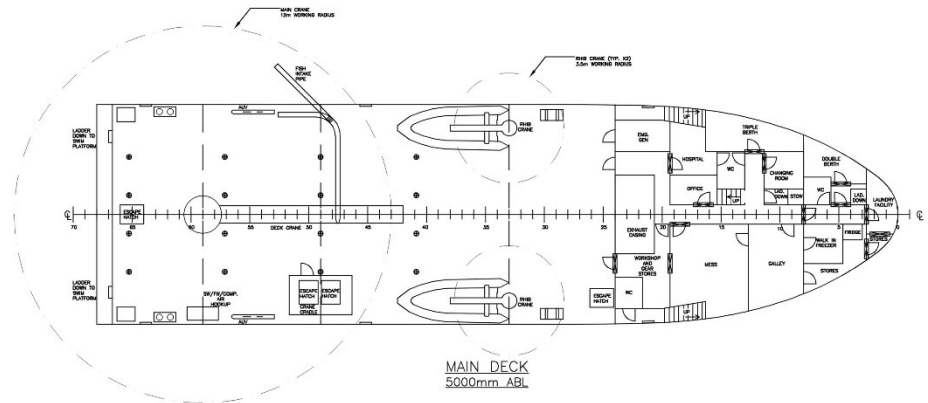
MV Fishionary is designed to support offshore fish farm operations. The vessel is equipped for transporting personnel, equipment, feed, and fish between fish pens and other offshore fish farming locations. Delousing capabilities are included.

## SPECIAL FEATURES

The vessel is equipped with diesel electric propulsion and is possesses DP-1 capabilities. In addition, the vessel has a gross registered tonnage of under 100GRT and is capable of operating in Zero Emmissions Mode for 10% of its operation profile.



## Additional Drawings



## De-licing System

The FLS Caligus R500 delicer operates by taking in the fish at a velocity of 1.7–2.5 m/s and pumping them through a series of three seawater jets that each exert a light water pressure of 0.5–1.4 bar. This removes the sea lice from the fish without harming or stressing the fish. The lice are then collected in filters underneath each pump. Each pump-filter unit is a removable module for easy maintenance, as well as containing a camera to monitor the fish inside. The system contains a FLS Suctus ejector pump to propel the fish, as well as a FLS Calculus 500 fish counter to determine how many fish pass through the system. Actuator-controlled hatches in the front of each module provide easy access for maintenance and interior access without having to remove the whole module.



# The Aquaholics: Team Member Handout

## THE AQUAHLICS

### David Dagoon

Hometown: East Meadow, NY

Internships: St. John's Ship Building, Cape May-Lewes Ferry, Metalshark Croatia

Recreation: AI

Career Plans: Work



### Konrad Freischlag

Hometown: Virginia Beach, VA

Internships: United States Marine, Inc., *Stolt Inspiration*, DLBA Naval Architects

Recreation: Sailing

Career Plans: Naval Architects



### Emma Passariello

Hometown: Westbury, NY

Internships: Caddell Dry Dock and Repair Co, Inc., *Stolt Lotus*, American Bureau of Shipping

Recreation: Fishing

Career Plans: Aquaculture



### Addison Pope

Hometown: Jamestown, NY

Internships: United States Marine, Inc., *Stolt Inspiration*, Snow & Company, Inc.

Recreation: Eating Fish

Career Plans: Marine Engineering

