



Atlantic Oceanic

# ATLANTIC SPIRIT



- **Multi-Purpose Supply Vessel (MPSV)**
- **60t AHC Offshore Crane**
- **Mezzanine Deck with ROV, LARS**
- **Through Hull USBL System**
- **DP2**
- **FIFI 1**

# GENERAL DESCRIPTION

## ATLANTIC SPIRIT



### OWNER/OPERATOR

ATLANTIC OCEANIC (UK) LTD

### BUILDER

Ulstein Verft a.s, Ulsteinvik - Norway

### CLASSIFICATION

Det Norske Veritas +1A1 Supply vessel DYNPOS(AUTR) E0 Ice(C)  
SF BIS Dk(+) HL(2,5) T-MON PMS OILREC ISM LFL

### OUTLINE

The vessel is a Multi-Purpose Supply Vessel with open cargo deck equipped to handle liquid and dry bulk cargoes.

The vessel has been converted for IMR/ROV/Subsea operations with the addition of 60t AHC Crane, mezzanine deck, ROV, LARS, and USBL through-hull penetration.

### DIMENSIONS

Length o.a.	87.10 m
Length b.p.	74.30 m
Breadth mid.	17.50 m
Depth Mid.	7.30 m
Draft Max	6.13 m
Design Draft	6.20 m

### TONNAGE—DEADWEIGHT

Tonnage	2775 GRT
Deadweight	3750 T summer DWT

### DECK LOADING CAPACITIES

Deck Measurements	57.00 m x 14.60 m (817m <sup>2</sup> )
Deck Cargo Capacities	2380 Tonnes

### DECK EQUIPMENT

Anchor Chain	10 shackles SB 9 shackles PS
Anchors	3 off SPEK type (2 service + 1 Spare)
Anchor Windlass	Hydraulic combined windlass mooring winch
Capstans	2 off 10 tonnes combines bollards/capstans positioned SB and PS aft.
Deck Cranes	1 off hydraulic pedestal mounted telescopic crane. 2 tonnes at 10m outreach. Make: Hydralift
Tugger Winches	1 off 10T Norwinch 1 off 16.4T Norwinch

### BULK TANK CAPACITIES

Bulk Cement Tanks	5 tanks total 286m <sup>3</sup>
Bulk Discharge	2 x compressors each 26.6m <sup>3</sup> at 5.6bar (80psi) Designed discharge rate 100T/hour each compressor.

### LIQUID TANK CAPACITIES

	Dedicated Tanks	Combined Tanks
Marine Diesel Oil	811.7 m <sup>3</sup>	1355.9 m <sup>3</sup>
Heavy Fuel Oil	318.5 m <sup>3</sup>	318.5 m <sup>3</sup>
Slop Tanks	603.8 m <sup>3</sup>	810 m <sup>3</sup>
Drill Water/Ballast	603.8 m <sup>3</sup>	810 m <sup>3</sup>
Mud (SG 2.5)	603.8 m <sup>3</sup>	810 m <sup>3</sup>
Brine (SG 2.5)	606.4 m <sup>3</sup>	1018.8 m <sup>3</sup>
Methanol (LFL)	177 m <sup>3</sup>	
Special Products	220 m <sup>3</sup> (eg H <sub>2</sub> S Scavenger)	
Sewage Tanks	12.3 m <sup>3</sup>	
Fresh Water	577 m <sup>3</sup>	

### LIQUID DISCHARGE

Fuel Oil Pumps	1 pump, At 0-250m <sup>3</sup> /hr at Δ 9 bar
Brine Pumps	2 pumps, At 0-100m <sup>3</sup> /hr at Δ 20 bar - 2 systems
Liquid Mud Pumps	2 pumps, At 0-75m <sup>3</sup> /hr at Δ 18 bar - 2 systems
Special Product Pumps	2 pumps, At 0-100m <sup>3</sup> /hr at Δ 20 bar
Drill Water Pumps	1 pump, At 0-278m <sup>3</sup> /hr at Δ 9 bar
Fresh Water Pumps	1 pump, At 0-250m <sup>3</sup> /hr at Δ 9 bar
Methanol Pumps	1 pump, At 0-100m <sup>3</sup> /hr at Δ 9 bar
Discharge Piping	All discharge pipes are 6" diameter

### PROPULSION

Main Engines	2 off Bergen BRM-6 -6 cylinders
Bore/Stroke	320mm x 360mm
Horse Power Rating	3300 BHP each. 6600BHP total at 750 RPM

### SPEED/CONSUMPTION (weather dependant)

Max	12.0 Knots on 19 m <sup>3</sup> /day
Economy Transit	10.0 Knots on 10-12 m <sup>3</sup> /day
Standby Offshore	5.0 m <sup>3</sup> /day
DP Operations	10-12 m <sup>3</sup> /day
Alongside	1.0 m <sup>3</sup> /day

### PROPELLERS

Make/Type	2 off Ulstein 600 AGSC variable pitch
Diameter/Speed	2900mm—215rpm

### THRUSTERS

Bow Thrusters	2 off Ulstein 375 TV0C each 1000BHP
Stern Thruster	2 off Ulstein 150 TV0A each 800BHP

### AUXILIARIES/ELECTRIC POWER

Generators	2 off shaft generators each 2300 kVA 2 off Caterpillar aux each 450 kVA 1 off emergency generator 250 kVA
Electric Power	440 V/ 220V—60Hz

### DYNAMIC POSITIONING SYSTEM

DNV notation	DYNPOS-AUTR IMO Class 2
Reference Systems	1 x SAAB R4AIS Shipbourne 1 x Fugro Seastar 9200 G2
Sensors	2 x wind sensors 3 x gyro compasses 2 off Motion Reference Units (MRU)



## BRIDGE/MANOEUVERING

<b>Bridge Controls</b>	2 complete bridge control stands
<b>Loading/Discharging</b>	Remote monitoring of all tanks including loading/discharging operations and start/stop of all pumps.

## NAVIGATION EQUIPMENT

<b>Radars</b>	1 x Furuno FR2135S 3 cm ARPA 1 x Furuno FR2135S 10cm ARPA
<b>Chartplotter</b>	Telchart 2024
<b>Gyro Compass</b>	3 x S.G Brown Meridian Gyro
<b>Autopilot</b>	1 x Simrad AP70
<b>Echo Sounder</b>	1 x Skipper GDS 101 with digital depth indicator
<b>Navtex</b>	1 x Shipmate RS 6100
<b>DGPS</b>	1 x Furuno GP80/GR80
<b>AIS</b>	1 x Gommnav X3
<b>LRIT</b>	2 x Inmarsat—Sat C
<b>Log</b>	1 x JRC 203 Doppler Log with remote displays

## COMMUNICATION

GMDSS installation in accordance with IMO regulations for vessels operating within Sea Area A1, A2 and A3

<b>Radio Transceivers</b>	1 x Skanti DSC 9000 1 x Skanti TRP 8760 SSB 800 W
<b>DSC</b>	Skanti TRP 7200 SSB 200W
<b>GMDSS VHF portable</b>	3 x AXIS 250
<b>VHF</b>	2 x Sailor RT2047. 1 x Midland Marine Neptune
<b>GMDSS EPIRB</b>	1 x SIMRAD, EP70
<b>GMDSS SART</b>	2 x SIMRAD SA70
<b>Watch Receiver</b>	1 x Skanti WR 6020
<b>UHF</b>	4 x portable Motorola GP900, 99 channels
<b>Portable VHF</b>	3 x Icom portable VHF hand held radios
<b>Satelite System</b>	FBB 500—communication system for phone and internet
<b>Satelite Comms</b>	Inmarsat
<b>Mobile Telephone</b>	Cellphone system
<b>Internet</b>	Dedicated Client Inmarsat link
<b>Sat TV System</b>	SeaTel

## ACCOMODATION

<b>Total number of beds</b>	32 x beds
<b>Total number of cabins</b>	15 x cabins
<b>Single cabins</b>	4 x single cabins
<b>Double cabins</b>	6 x double cabins
<b>Multiple cabins</b>	2 x 6 berths, 1 x 4 berth
<b>Office</b>	1 x office
<b>Hospital</b>	convertible hospital as required
<b>Other</b>	Messroom, Dayroom, Gymnasium, Laundry, Galley, Dry Provision, Cooling, Freezing Room
<b>Optional max POB</b>	44 x beds

## LIFESAVING/RESCUE

<b>Rescue Boat</b>	Weedo 700 FRC, SOLAS & DNV compliant, 10 person capacity
<b>Life rafts</b>	4 x 25 person rafts 1 x 10 person raft
<b>Davit</b>	Vestdavit, PLR 3601 SOLAS compliant

<b>MAIN HOOK</b> LIGHLOAD: 36T-20M HOOK SPEED: 0-50M/Min SWL LOAD: 60T-15M HOOK SPEED: 0-25M/Min LIFTING HEIGTH: 2000M	<b>AUX. HOOK</b> SWL LOAD: 15T-23M LIFTING HEIGHT; 100M HOOK SPEED SWL:0-25M/Min HOOK SPEED LIGHT LOAD:0-50M/Min
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60t AHC Crane Spec

## FIRE FIGHTING EQUIPMENT

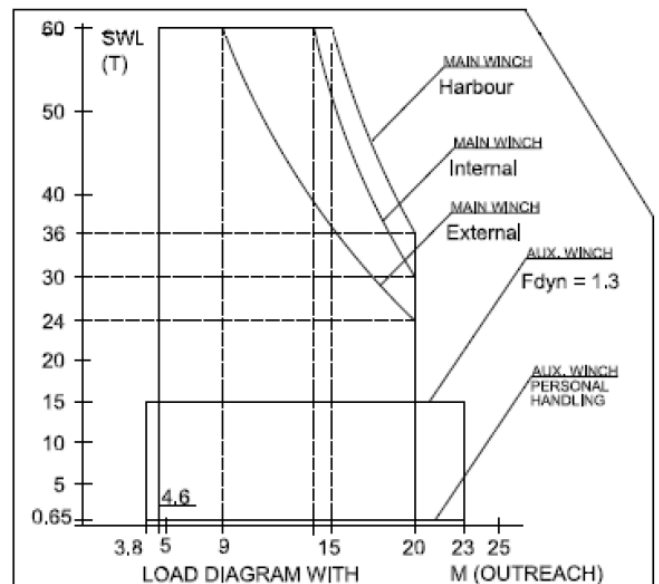
Active fire fighting system designed to fight external as well as on-deck fire.

<b>Fire-fighting System</b>	FIFI I, DNV approved
<b>Fire-fighting Foam</b>	AFFF alcohol resistant
<b>Fire-fighting pumps</b>	2 x Jason Engineering OGF250 x 350CW, 1650m <sup>3</sup> /hr each.
<b>Water Monitor</b>	FM200HD-C-02, 1200m <sup>3</sup> /hr
<b>Length of throw</b>	120 m
<b>Water Monitor</b>	50 m



## OPERATION SPECIFIC EQUIPMENT

<b>Mezzanine Deck</b>	17.5m L x 5.8m W x 3.5m H, DNV Approved
<b>60t AHC Subsea Crane</b>	- TTS 60t AHC knuckle boom crane - Main Winch 60t @ 15m - Main wire 2000m - Aux Winch 15t @ 23m (man riding) - Aux wire 207m
<b>A-frame</b>	- 45t SWL (22.5t man riding) - Suitable for Hyperbaric Rescue - Option for AHC winch
<b>Marine Crane</b>	- HIAB Seacrane 201-3 - Knuckleboom Telescoping - 2000kg at 6.5m - Titan TC3 Winch - 125m length winch wire
<b>Subsea Positioning</b>	Thru hull USBL transponder deployment system used to deploy USBL transducer for subsea positioning and survey - Survey Control container on main deck can be installed for project use
<b>ROV</b>	Can operate a range of Remotely Operated Vehicles depending on project requirements.



60t AHC Crane Load Diagram

