

AOS Handler



AOS Handler is a vessel equipped with two (2) Controllable Pitch Propellers and one (1) bow thruster. It is built of steel and engine room is located in the middle.

This Vessel is designed to obtain the following roles:

- a. Towing and anchor handling duties
- b. Transport liquid cargo, bulk cement, liquid mud, stores, materials and equipment
- c. External fire fighting
- d. Move men and materials between platforms
- e. Safety and rescue operations
- f. Operation to be 24 hours/day continuous operation, capable of remaining on station for a minimum of 14 days



Atlantic Maritime Group FZE

AOS Handler

PRINCIPAL PARTICULARS

Length Overall:	58.70 m
Length Waterline:	56.37 m
Breadth Moulded:	14.60 m
Depth Moulded:	5.50 m
Max Draft Moulded:	4.50 m
Year Built:	2010
GRT/NRT:	1537 / 461
Class:	Bureau Veritas
Flag:	Panama
Call Sign:	HO5899

CARGO CAPACITIES:

Deadweight:	1500 T
Deck Cargo:	500 T
Deck Strength:	7 T/m ²
Clear Deck Area:	370 m ²
Fuel Oil:	475 m ³
Fresh Water:	234.21 m ³
Drill Water / SWB:	465.06 m ³
Liquid Mud:	259.24 m ³
Bulk Mud:	186.88 m ³
Freezer:	9 m ³
Cooler:	6 m ³
Foam:	13 m ³
Dispersant:	13 m ³
Lube Oil:	8.11 m ³

DECK EQUIPMENT

Windlass:	9T @ 12m/min for 40 mm dia.
Anchors:	2 x 1305 kg
Chains:	2 x 400 m x 40 mm dia.
Capstan:	2 x 5T @ 15 m/min
Tugger Winch:	2 x 10T @ 15 m/min
Rope Reel:	1 x 5T @ 15 m/min
	Cap: 1000 m (L) x 56 mm dia.

PERFORMANCE

Maximum Speed:	14 knots
Economical Speed:	12 knots
Fuel:	840 liters

DISCHARGE RATES

Fuel Oil:	150 m ³ /hr @ 75 m head
Portable Water:	100 m ³ /hr @ 75 m head
Drill Water:	100 m ³ /hr @ 75 m head
Liquid Mud:	2 x 70 m ³ /hr @ 75 m head
Bulk Mud / Cement:	2 x 13.0 m ³ /min

PROPULSION SYSTEM

Main Engines:	2x Caterpillar 3516B 2575 bhp / 1920 kW @ 1600 rpm
Reduction Gears:	2 x Reintjes LAF 873 ratio 7:455:1
Main Generator:	3 x 450 kW diesel driven
Emergency Generator:	1 x 65 kW
Bow Thruster:	1x 8.0T electric driven
Propellers:	2 x controllable pitch propeller
Rudders:	2 x double plate flat type
Steering Gear:	2 x independent electro-hydraulic

TOWING / ANCHOR HANDLING EQUIPMENT

Bollard Pull:	69.40 T (approx)
Winch:	2 x 10T @ 15 m/min
Stern Roller:	200T; 5.0 m x 1.6 m dia.
Shark Jaw & Tow Pins:	2 x 5T @ 15 m/min hydraulic operated type SWL: 200T

ACCOMMODATION

Configuration:	2 x 1 man cabins 4 x 2 men cabins <u>8 x 4 men cabins</u>
Total:	42 men
Hospital:	1 x 1 men
Accommodation is fully air conditioned	



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DYNAMIC POSITIONING SYSTEM

DP 2 System:	Kongsberg Dynamic Positioning 1
	- 1 x DGPS
	- 2 x wind sensors
	- 2 x motion reference systems
	- 2 x gyro compasses
	- 1 x UPS
	- 1 x control station
	- 2 x joysticks

RADIO AND NAVIGATION EQUIPMENT

GMDSS:	Area A1+A2+A3
SSB:	1 x Furuno FS-1570
VHF:	2 x Furuno FM8800S
MF/HF DSC:	1 x Furuno FS-1570
Inmarsat C:	2 x Furuno Felcom-15
Radar:	1 x Furuno FR-2115
Echo Sounder:	1 x Furuno FE-700
Gyro Compass:	1 x Robertson RGC-11
SART:	2 x Mc Murdo S4
VHF radios:	3 x Mc Murdo R2 (portable)
EPIRB:	1 x Mc Murdo E5
Magnetic Compass:	1 x Saura MR-150
Speed Log:	1 x Furuno DS-80
Naxtex Receiver:	1 x Furuno NX-700B
GPS Navigator:	2 x Furuno GP-150
Weather Fax:	1 x Furuno FAX-408

LIFE SAVING AND HSE EQUIPMENT

Search Lights:	3 x 2000 W
Floodlights:	7 x 1000 W
Liferafts:	4 x 20 men & 2 x 25 men
Lifejackets:	53 sets
Lifebuoys:	8 sets
Scrambling Nets:	1 x 4.6 m x 1.1 m
Rescue Boats:	1 x 6 men

FIRE FIGHTING AND ANTI-POLLUTION

EXTERNAL:	
FIFI Class 1 c/w Water Spray	
Fire Pump:	2 x 1500 m ³ /hr @ 130 MLC
Water / Foam:	2 x 1200 m ³ /hr @ 12 bar
Search Lights:	3 x 2000W
Dispersant S/B:	13 m ³
INTERNAL:	
Emer Fire Pump:	55 m ³ /hr @ 4.5 bar
1 x Co ₂ System:	in Main Engine Room

GALLEY AND LAUNDRY EQUIPMENT

Electric Cooking Range:	6 x hot plates, 1 oven
Refrigerator Capacity:	290 liters
Freezer Capacity:	250 liters
Electric Water Boiler:	10 liters
Washing Machine:	2 x automatic 8 kg
Dryer:	2 x w/ exhaust fan
Iron:	2 x iron
	2 x ironing boards

MISCELLANEOUS

Sewage Treatment Pl:	one set
Oily Water Separator:	one set
Freshwater Maker:	1 x reverse osmosis type; 5T/day



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