



ORION I



VESSEL SPECIFICATIONS

Vessel Name	ORION-I
Port of Registration	Isla del Carmen
Call Sign	XCOF1
IMO Number	9461752
Flag	Mexico
Year Built	2008
Owner Name and Nationality	Cotemar S.A. de C.V., Mexican
Class	DNV GL 1A1 Offshore Service Vessel AHTS Fire Fighter I DPS-I

POWER GENERATION

The AHTS ORIÓN-I is equipped with:

- 3 Caterpillar generators model 3408, with a capacity of 320 KW 456 BHP@1500RPM
- 3 Caterpillar emergency generator with a capacity of 68 KW 85kVA, 415V, 50 Hz@1500rpm

DIMENSIONS

Length	58.70 m
Breadth	14.6 m
Draft	5.50
Operating draft	4.50
Speed	10 knots
Gross Tonnage	1,523 t
Net Tonnage	457 t
Fuel capacity	428 m ³
Potable water capacity	228 m ³

DP SYSTEM

The AHTS ORIÓN-I is equipped with a class I dynamic positioning system, Marine Technologies model 310006 MTOC and a Bridge Mate remote joystick. The vessel has the following two main reference systems:

- 1 DGPS (Fugro/9200-G2 C-Nav1000 R4 Navigation Version 2.0.4)
- 1 CySCAN (MT Cyscan ICP)

PROPULSION

The AHTS ORIÓN-I is equipped with:

- 2 Main Caterpillar 3516B machines with a capacity of 1920 KW@1600rpm each
- 1 Kamome Propeller Co. Ltd. model TCB-70DSMA variable pitch tunnel-type propeller at the bow with a capacity of 371 KW@1485 rpm

NAVIGATION EQUIPMENT

- 2 GPS, Furuno GP 90/Furuno GP150
- 2 Gyrocompasses, Anschuetz Standard 22
- 1 Magnetic compass, Cassens & Plath Reflecta 3
- 1 Echo sounder, Furuno FE 700
- 1 AIS, Furuno FA-100
- 1 Navtex, Furuno NX700
- 2 Radars, Furuno FR2115 Band X/Furuno FR1510
- 1 GMDSS, Furuno RC-1800T
- 1 Automatic pilot, Anschutz Nautopilot NP60
- 2 VHF radios, Furuno
- 3 VHF radios, ICOM
- 1 Doppler speed log, Furuno DS-80
- 1 BNWAS BR510
- 1 ECDIS Furuno MU - 190
- 1 VDR VR - 7017

MAIN DECK AREA AND RESISTANCE

- Deck area: 361 m²
- Resistance on deck : 7 t/m²

Address

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ACCOMMODATIONS

The ORIÓN-I vessel can accommodate 42 people in 14 cabins, which are distributed as follows:

- 2 Cabins with one bed; 4 cabins with one double bed each; and 8 cabins with 4 beds each
- All cabins are equipped with a private bathroom

AIR CONDITIONING SYSTEM

Integrated air conditioning system with sufficient capacity to comfortably cover the needs of the entire vessel facilities.

AHTS (ANCHOR HANDLING AND TOWING SYSTEM)

The anchor handling and towing system consists of a hydraulic package that includes:

- 1 Hydraulic winch, Mentrade model AHTS 150T
- 1 Dashboard
- 2 Capstans
- 2 Support winches
- 1 Anchor capstan
- Bollard-pull: 71.3 tons

BULK CARGO MANAGEMENT SYSTEM

Comprised of the following:

- Main operating dashboard
- 2 Air compressors, Airman
- 4 Storage silos, Winde Form Head Forging Co. Ltd. of 46 cu/ft, pressure 5.6 kg/cm²

WASTEWATER TREATMENT SYSTEM

1 Chongqing Taiko Kangda Environmental Tech/SBTC-65 treatment plant with a capacity for 65 people 3.9 m³/day. The wastewater treatment plant complies with the MARPOL standards, Exhibit IV, and Mexican standard NOM 001-SEMARNAT-1996.

FIREFIGHTING SYSTEM

Firefighting equipment registered as FIFI-I.

LIFE SAVING EQUIPMENT

- 1 Rescue boat that fits 6 people
- 6 Life rafts that fit 25 people each
- 8 Life buoys distributed on the port side and starboard side, according to the safety plan
- 53 Life jackets: 42 are in the cabins, one for each crewmember and the rest are distributed according to the safety plan (11 life jackets)
- FIFI-I System
- 1 Station with complete firefighting equipment

MEDICAL EQUIPMENT

- 1 Hospital with first aid equipment
- 1 Neil Robertson stretcher
- 1 Collar
- 1 Bamanometer

COMMUNICATIONS

- The vessel has fixed and portable VHF equipment, which are located at strategic points throughout the vessel
- It also has full Global Maritime Distress Signal System (GMDSS) that is ready for navigation on zones A1, A2, and A3
- The vessel is fitted with a Skyfile satellite mail system (for mail service only)
- Public announcements and emergencies equipment
- Direct intercom (command bridge/control room/machine room/crewmember cabins)