



**Name of Vessel**

CM Surveyor

**Port of Registry / Flag**

Astrakhan/ Russia

**IMO / MMSI**

8416956 / 436000188

**Year of Delivery**

1985 (Lengthened & Modified 1998)

**Type**

ROV/Survey/Shallow Draft Dive Support/Survey Platform Supply/Utility Vessel.

**Classification**

Bureau Veritas \*1A1 Special Service Vessel (Unrestricted Navigation)

**Length over all (LOA/BP)**

44.80m / 43.14m

**Breadth / Depth / Draft**

9.14m / 3.54m / 2.286m

**GRT / NRT / DWT / Loaded Displacement**

405T / 121T / 205.29T / 585.12T

**Clear Deck Space**

145m<sup>2</sup> main deck. 22m<sup>2</sup> boat deck.

**Deck Loading**

5t/m<sup>2</sup> main & 1.5t/m<sup>2</sup> boat deck.

**Speed**

10 knots (Max) 9 knots (Service)

**Endurance**

21 days

**Accommodation**

Fully heated & air conditioned for 30 men in 4 x Four, 6 x Two, & 2 x Single berth cabins. (inc 20 surveyor/diver/passengers berths)

**Lifesaving**

To meet SOLAS requirements.

**Fuel / Fresh Water / Sewage**

77m<sup>3</sup> / 70.0m<sup>3</sup> / 56m<sup>3</sup>

**Lube Oil / Dirty Oil & Bilge**

3.44m<sup>3</sup> / 2.43m<sup>3</sup>

**Main Engines**

2 x General Motors (Detroit) 12V 149 High Speed twelve cylinder, two stroke diesel engines producing 1208kW (1620bhp) total @ 750rpm.

**Propulsion**

2 x MG 520 reverse reduction gearboxes, 2.97:1 coupled to four bladed 1280mm diameter Kaplan fixed pitch propeller rotating @ 606rpm within fixed Kort Nozzels.

**Generators**

2 x main Diesel Generators, Detroit General Motors 6V92TA 176Kw  
Driving Stamford MSC 434 D 160Kw @ 1500rpm. 50Hz, 400v.

**M.E. Consumption**

6,000 litres MGO and 30 litres lube oil per 24 hours @ full power. 5,000 litres MGO and 20 litres lube oil per 24 hours @ economic service speed of 9 knots

**Generator Consumption**

450 litres MGO and 3 litres lube oil per 24 hours.

**Bow Thruster & Stern Thrusters**

Bow Thruster; Electro-Hydraulic tunnel P11P-2 RIA-5 A2B. 112kW (150.2bhp) 1.6t Static Thrust. Stern Azimuth Thruster; Omega Gill Jet 03/00-4K. Driven by a SCANIA-DSI 1173 M459. 274kW (367.4bhp) 2.2t Static Thrust.

**Oily Water Separator**

RWO GSF0.5 Capacity; 0.5m<sup>3</sup>/hr, Max operating pressure 0.2 bar.

**Water Maker**

Viola D5 MD200 Reverse Osmosis plant. Production Capacity 5m<sup>3</sup>/24 Hours.

**Sewage Treatment Plant**

BRODOPUR BP-35. Capacity for max 40 persons.

**Main Air Compressor**

Main; COOPER AVSARA, capacity 18m<sup>3</sup>/h @ 15 Bar.

Emergency; 4S 24-40, capacity 5m<sup>3</sup>/h @ 15 Bar.

**Fuel Cargo Pump**

AL195. Capacity 20m<sup>3</sup>/h @ 1450rpm & pumping head of 30 m.

**Fresh Water Cargo Pump**

DESMI S 100-80-275/A09. Capacity 50m<sup>3</sup>/h @ 1440rpm & pumping head of 21m.

**Main Fire Pump**

DESMI S 100-80-275/A09. Capacity 50m<sup>3</sup>/h @ 1440rpm & pumping head of 21m.

**Portable Emergency Fire Pump**

Diesel driven 20m<sup>3</sup> per hour.

**Steering Gear**

Canada V7M 3 G 2 Electro hydraulic tied ram steering.

**Moon Pool**

400mm enclosed moon pool with isolation gate valve. Complete with telescopic mechanism for the operation of survey transducers and sonar heads.

**4 Point Mooring System**

Four point mooring system consisting of 1 x Split drum Tusunda Kogyo-LGO-4S winch on the fore deck and 2 x Tusunda Kogyo-LKO-4S single drum winches on the port and starboard quarters. Winches have 4t static line pull & speed of 30m/min.

**Anchor**

2 x 660kg Hall type (Bow)  
2 x 660kg Danforth type (Stern)

**Anchor Wires**

2 x 360m, Ø28mm Galvanised wire (Bow)  
2 x 250m Ø28mm Galvanised wire (Stern)

**Deck Crane**

Hydraulic RECO RC 10 B2-40 Telescopic Boom with a SWL of 5T

**Navigation Equipment**

Radar; Furuno 1832 & Furuno 7111  
Gyro; MK ES Tokyo Keiki  
Autopilot; Robertson AP-45  
Echo Sounder; Furuno FE 600  
DGPS; Navigator, KGP-913MKIID  
GPS; Shipmate RS 5500  
Navtex; Furuno NX-700  
AIS; Saracom SI-10D

**Radio Communication Equipment**

VHF; Furuno 8500 x 2  
GMDSS; 2 x INMARSAT C Furuno  
SSB; Sailor RE 2100  
Sat Phone; Thrane & Thrane TT-3000

**Radio Life Saving Equipment**

EPIRB; 40S MK II  
SART; Jotron SART 20 & McMurdo RT9-3

**Other Equipment**

Ahuja UTR 40 Talk back system.  
Fleetbroadband 150

