CCGS AMUNDSEN

Official Number: 383347 Call Sign: CGDT

VESSEL SPECIFICATIONS

Length : 98.2 m
Breadth : 19.5 m
Draft : 7.2 m
Freeboard : 3.7 m
Gross Tonnage : 5911.0 t
Net Tonnage : 1678.8 t
Cruising Range : 35000 nm
Endurance : 100 d
Cruise Spd : 14.0 kts
Maximum Spd : 16.0
Fresh Water : 135.00 m³
Fuel Capacity : 2471.00 m³
Fuel Consumption : 23.00 m³/d
Ice Class: Arctic Class 3
Class of Voyage: Unlimited
MARPOL: Yes
IMO : 7510846

ENGINEERING

Propulsion: Diesel electric AC/DC
Propulsion Desc.: (6) x Alco - M251F
Power : 10142 kw
Propellers: (2) x Fixed Pitch
Thrusters: **Bow:** Yes **Stern:** No
Emer.Gen Set: (1) x Caterpillar - 398
Generators: (3) x MTU - 8V4000M

GENERAL OPERATION AND CREWING

Vessel Class : Medium Icebreaker
Port of Registry : Ont. - Ottawa
Home Region : Central and Arctic
Home Port : Que. - Québec
Vessel Status : Active
Complement : 31
Officers : 11
Crew : 20
Berths Available : 51
Crewing Regime : Layday

CONSTRUCTION DETAILS

Builder : Burrard Dry Dock Co. Ltd.
Build Material : Steel
Ownership : Canadian Coast Guard
Year Launched : 1979
Year in Service : 1979
Year Disposed : NA

HELICOPTER FACILITIES

Helo Capacity : 1
Type 1 : MBB - Bo105
Type 2 : Bell - 206B
Type 3 : Bell - 206L
Type 4 : NA
Flight Deck : Yes **Area :** 229.0 m²
Hangar : Yes **Area :** 99.0 m²
Storage : Yes **Fuel :** 3.0 m³

DECK EQUIPMENT

Main Hoist : Hepburn 75M-0526 **SWL :** 8.0 t
Crane 1 : Hepburn 75M-0526 **SWL :** 8.0 t
Crane 2 : Hepburn 75M-0526 **SWL :** 8.0 t
Crane 3 : Hepburn 75M-0526 **SWL :** 8.0 t
Workboat 1 : RHIB **Launcher :** Miranda Davit
Workboat 2 : SP Barge **Launcher :** Standard Davit
Workboat 3 : RHIB **Launcher :** HIAB - Seacrane
Workboat 4 : N/A **Launcher :** N/A

COMMS AND NAVIGATION EQUIPMENT

VHF AM: (1) x Icom - L
VHF FM: (3) x Sailor - RT-5022
HF: (2) x Sailor - HC4500
(1) x Motorola - Micom
SatComms: (1) x Westinghouse Series 1000 Msat
(1) x Sailor SC4000 Iridium
(1) x Furuno - FAR 3210 Chart Radar - X Band
Gyro: (2) x Anschutz - Standard 20
Radars 1 : Sperry Marine - Bridgemaster E - X Band
Radars 2 : Sperry Marine - Bridgemaster E - S Band
Radars 3 : Sperry Marine - Bridgemaster E - X Band
Weather Fax: (1) x JRC - JAX-9
Elec. Charts: (1) x ICAN Aldebaran II
(1) x OSL ECPINS
Auto Pilot: (1) x Sperry ADG 6000
Speed Logs: (1) x Sperry Marine - SRD-331
GPS: (1) x SAAB - R4 (AIS)
MF DF: (1) x Taiyo - C338 HS
VHF DF: (1) x OAR - Cubic DF4400
Depth Sounders: (2) x Skipper - GDS 101
Sonar: (1) x Simrad - EM302

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HOLDS AND DECK SPACE

Hold #1 : 94.5 m³
Hold #2 : 95.0 m³
Main Deck : 354.0 m²
Boat Deck : 483.0 m²
After Deck : 123.0 m²

Hatch Size : 4.6 x 4.0
Hatch Size : 3.5 x 2.9

SCIENTIFIC EQUIPMENT

Lab No. 1 : Moon Pool & ROV Control room — **Area :** 12.5 m²
Lab No. 2 : Geology & Paleology — **Area :** 19.4 m²
Lab No. 3 : Nutrient Lab — **Area :** 19.5 m²
Lab No. 4 : Comp list - see Additional info — **Area :** NA
Scientific LAN : Yes
Scientific Winches : 5 - Hawboldt winches
Scientific Sounders: N/A
Power on Deck: **Hydraulic:** Yes — **Electrical:** Yes

CONTAINER CAPACITY

Focsle : NA
Boat Deck : 3
Flight Deck : 4
After Deck : NA
Other : NA

BIOGRAPHICAL INFORMATION

Roald Engebreth Gravning Amundsen (1872-1928). Born in Borge, Norway, he gained international fame when he led the first Antarctic expedition to the South Pole. The first man to undisputedly reach both the North and South Poles, he was also the first to person to successfully traverse the Northwest passage. In 1928 during a rescue mission, while flying over the Arctic Ocean, Amundsen disappeared. Although his body was never recovered, his legacy of Arctic exploration continues.

MODERNIZATION INFORMATION

In 2002, the CCGS SIR JOHN FRANKLIN was converted from a Medium Icebreaker to an Arctic Research Vessel and re-named CCGS AMUNDSEN. The vessel underwent an extensive modernization which included the addition of the following equipment: a 2.2m x 2.3m Moon pool and control room, an ROV control room, a CTD Rosette Room and Control Room. On the upper deck, a filtration lab, a freezer lab, a geochemistry lab, a wet lab, a refrigeration lab, a Benthos lab, a Geology lab , and a Paleogoly lab were added. On the main deck, a science lab, a nutrient lab, a salinometer lab, and a zooplankton lab were added. The ship also carries 5 scientific container labs: a wet lab, a RADVAN lab, a PILMS lab, a dry lab and a mooring lab, as well as 2 storage containers for scientific equipment.

VESSEL IMAGES