

MV GRACE SPARKES and MV HAZEL MCISAAC

Vessel Specifications



Length	42 metres
Breadth (Width)	11.2 metres
Draft	2.8 metres
Design Speed	10.5 knots
Gross Tonnage	930 tonnes
Lightship Weight	605 tonnes
Passenger Capacity	80
Vehicle Capacity	16 cars <u>or</u> 1 tractor trailer + 11 cars
Classification	Lloyd's Register of Shipping, Ice Class 1A

Main Engines	2 x MTU 8V4000M60R 2 x 634kW (850hp) @ 1600rpm
Generators	2 x Volvo D12 @ 350kW 1 x Volvo D7 @105kW
Propulsion	2 x Aquamaster US155 Azimuthing thrusters
Bow Thruster	150kW (200hp)
Stability Subdivision Standard	2 compartment
Lifesaving Equipment	Davit launched boats and rafts With a capacity of twice the passenger & crew complement

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Construction Highlights



- Preliminary design was completed by Poseidon Marine Consultants Ltd. in 2008.
- Detailed design was completed by BMT Fleet Technologies at their St. John's branch office, in conjunction with Terra Nova Marine and Genoa Design.
- The vessel design was model tested at the National Research Council's Institute for Ocean Technology at Memorial University of Newfoundland by Oceanic Consulting Corporation prior to construction.
- The vessels were constructed at the Peter Kiewit Sons Co. Cow Head Fabrication Facility.
- The vessels are designed for operation in ice and are ice strengthened to Ice Class1A.
- Twin stern thrusters that are capable of turning 360 degrees combined with a bow thruster allow the vessels to be extremely manoeuvrable.
- The vessels have an elevator to allow people with mobility disabilities to get from the vehicle deck to the passenger lounge.
- The passenger lounge and life saving equipment are located on the same deck to enhance safety in the unlikely event of evacuation.
- The vessels are constructed to meet high safety and stability standards and meets Environmental Protection Agency Standards (Tier II).