

Pêches et Océans Fisheries and Oceans Canada

Canadian Coast Guard

Canada

Garde côtière canadienne





#### Safety First, Service Always



#### **Medium Icebreaker Project Overview Canadian Marine Advisory Committee** April 2019



#### **Overview**

- Introduction
- CCGS Captain Molly Kool
- Naming and Dedication to Service
- Conversion
- Mission
- In Service
- Next Steps

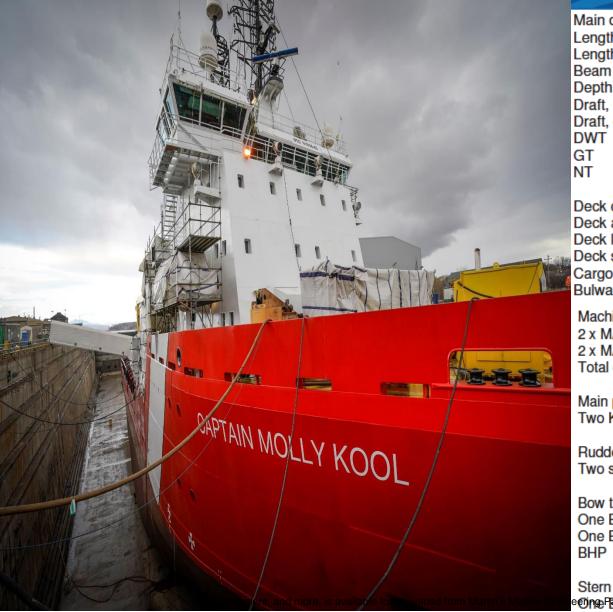


- In August 2018, the Government of Canada announced that it would acquire three vessels with icebreaking capabilities from Viking Supply Ships through an agreement with Davie Shipyard.
- These vessels will conduct icebreaking duties and will also be used to backfill for other vessels while they are undergoing maintenance, refit and vessel life extensions.



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### **CCGS Captain Molly Kool**



	Main dimensions:	
	Length o.a	→ 83,70 m
	Length between perp.	75,20 m
	Beam	18,00 m
	Depth to main deck	8,50 m
	Draft, scantling	7,20 m
	Draft, design	6,00 m
	DWT	3 000 mt on 7,2 m
	GT	4 000
	NT	1 200
	Deck capacities: Deck area Deck load Deck strength Cargo rail height Bulwark height	603 m2 (40,2 x 15,00) 1 350 mt (VCG 1,0 m) 25–10 mt/m 3 000 mm 1 200/1 500 mm
Machinery: 2 x MAK 8M32 in line (father) 3840 kW 2 x MAK 6M32 in line (son) 2880 kW Total of 18 300 HP (13 440 kW)		
	Main propellers:	

Two KaMeWa 4 blades in nozzle, dia 4 m, 145 rpm

Rudders:

Two spade rudders, 2 x 45 deg, split or synchronized

Bow thrusters: One Brunvoll tunnel 1200 BHP One Brunvoll nozzle rotatable/retractable 1200

Stern Thrusters: eoinePagenwow disselduck200 BHP

#### **CCGS Captain Molly Kool**





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## **Naming and Dedication to Service**



- Captain Molly Kool was a Canadian trailblazing mariner from Alma, NB.
- A dedication to service ceremony is being planned for May, 2019, in concert with a larger ceremony celebrating women in the seafaring industry.



#### Conversion



- The first vessel to enter into service, the CCGS Captain Molly Kool underwent a preliminary conversion upon arrival in Canada, and joined the icebreaking fleet in December, 2018. Additional work to further customize it will be undertaken when the second vessel enters into service.
- Preliminary conversion included:
  - Repainting to meet Fleet Identity Program
  - Compliance with Canadian Regulations





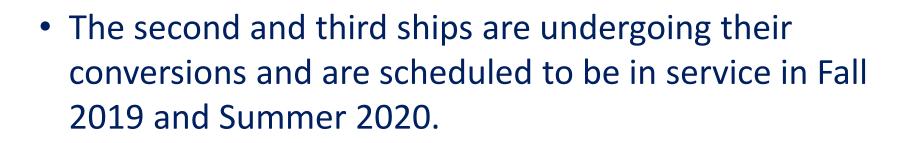
- These vessels will deliver Coast Guard's essential icebreaking program and will be fully capable icebreakers in both southern winter and Arctic summer seasons.
- They will also support a variety of other Coast Guard programs, such as Search and Rescue and Environmental Response.



- The CCGS *Captain Molly Kool* has been operating in the Gulf of Saint Lawrence since January, 2019.
- The vessel and crew have already performed many essential icebreaking duties and numerous escorts.



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• Once the second vessel is completed, the CCGS *Captain Molly Kool* will return to the shipyard for its full conversion.





# **Questions**?

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