



MARINE VESSEL AIR EMISSIONS SURVEY

HELP US BETTER UNDERSTAND AIR EMISSIONS

All ships that operate in the coastal waters and ports along the Pacific coast of Canada are asked to complete this survey. The survey is designed to accurately determine air emissions coming from ships while in Canadian waters.

Most of the information we need relates to the movement of your vessel and this will be collected automatically. The survey asks some basic questions about types of fuel you use, sulphur content of the fuel, and types of engines on your ship. We need this information directly from you. We will combine information from this survey with Coast Guard tracking data to calculate the total emissions from vessels while in Canadian waters.

All information provided will be treated as confidential. No information that could be directly related to your vessel will be shared with regulatory agencies or used in any published report.

We hope you will take the time to fill out the survey. Your survey information will provide critical baseline data for an ongoing program to learn more about ship emissions in Canadian waters.



WHAT'S THE PROBLEM?

Clean air is an important factor in the health of people living and working in the coastal areas of British Columbia.

Recent studies show that ocean going vessels are a primary source of pollutants that produce ozone and smog, such as oxides of sulphur and nitrogen, and particulate matter, all of which contribute to human health problems.

Clean air and clear visibility are also important to British Columbia's valuable tourism industry.

If growth predictions are accurate, and no reduction measures are taken, marine vessel emissions could be the largest contributor to regional air pollution in the greater Vancouver area by 2015.

WHY ARE WE CONDUCTING THIS SURVEY?

The shipping industry in British Columbia (Chamber of Shipping), ports, and government agencies (Greater Vancouver Regional District, Environment Canada, and Transport Canada) are working cooperatively to learn more about air emissions from ships in our waters.



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Accurate information gives us a starting point for determining what needs to be done to reduce these emissions. The survey can be repeated in the future to see if actions taken to improve air quality are having an effect.



WHAT YOU CAN DO?

The most important thing for you to do is to complete the survey and ensure it is delivered to the Chamber of Shipping.

Governments, ports and the shipping industry are looking at possible ways to reduce marine vessel emissions. As a ship owner or operator you can take a positive step now by purchasing bunker fuel in British Columbia where the average sulphur content is less than two per cent. Switching to this fuel will immediately reduce sulphur oxide emissions from your vessel.

WHAT'S THE SURVEY ALL ABOUT?

Your assistance is greatly appreciated for this important work. While participation is voluntary, if more ships complete surveys, the emission data will be more reliable, and the overall project more successful. Accurate reporting is essential to establishing a baseline from which to measure.

The survey is not part of a legal or regulatory activity. Reports prepared using the information collected will not be linked to specific vessels.

No information that links your vessel to the air emissions calculated for your vessel will be provided to regulatory authorities or used in a report made available to the public.



WHERE CAN I GET MORE INFORMATION?

For more information, contact:

**Chamber of Shipping of
British Columbia**

1-604-681-2351

Fax: 1-604-681-4364

info@chamber-of-shipping.com

www.chamber-of-shipping.com

WHAT DO I DO WITH THE COMPLETED FORM?

Fax or email the form to the Chamber of Shipping of British Columbia (see above)

Give the form to the Coast Pilot on final departure



Environment
Canada

Environnement
Canada



Greater
Vancouver
Regional
District





MARINE VESSEL AIR EMISSIONS

SURVEY - TO BE COMPLETED PRIOR TO LEAVING CANADA

Arrival Date at First Canadian Pilot Station	Vessel Name	IMO Number	Main Engine Upgrade? (yes/no)	Engine Upgrade Year

MAIN ENGINE(S)

Manufacturer	Model Number	Number of Engines
Power of Each Engine (brake power) (NCR)	Power	Units <input type="checkbox"/> kW <input type="checkbox"/> hp

Underway

Number of Engines Used	
Fuel Type (IFO, HFO, DFO, MGO)	Fuel Sulphur Content (%)

If you switch or plan to switch fuels in your main engines while in waters under Canadian jurisdiction, please complete the following table:

Date and Time	Fuel Switched to	Sulphur Content (%)



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AUXILIARY ENGINES 1

Manufacturer		Model Number	Number of Engines
Power of Each Engine (brake power) (NCR)	Power		Units <input type="checkbox"/> kW <input type="checkbox"/> hp

Underway

Fuel Type (IFO, HFO, DFO, MGO)		Fuel Sulphur Content (%)	
Average Load Factor (% of maximum power)			
Fuel Consumption Per Hour at Average Load Factor			
	At Anchor	At Berth	
Fuel Type (IFO, HFO, DFO, MGO)			
Fuel Sulphur Content (%)			
Average Load Factor (% of maximum power)			
Number of Hours Used in Canada			
Fuel Consumption Per Hour at Average Load Factor			

AUXILIARY ENGINES 2

Manufacturer		Model Number	Number of Engines
Power of Each Engine (brake power) (NCR)	Power		Units <input type="checkbox"/> kW <input type="checkbox"/> hp

Underway

Fuel Type (IFO, HFO, DFO, MGO)		Fuel Sulphur Content (%)	
Average Load Factor (% of maximum power)			
Fuel Consumption Per Hour at Average Load Factor			
	At Anchor	At Berth	
Fuel Type (IFO, HFO, DFO, MGO)			
Fuel Sulphur Content (%)			
Average Load Factor (% of maximum power)			
Number of Hours Used in Canada			
Fuel Consumption Per Hour at Average Load Factor			



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AUXILIARY ENGINES 3

Manufacturer		Model Number	Number of Engines
Power of Each Engine (brake power) (NCR)	Power		Units <input type="checkbox"/> kW <input type="checkbox"/> hp

Underway

Fuel Type (IFO, HFO, DFO, MGO)	Fuel Sulphur Content (%)	
Average Load Factor (% of maximum power)		
Fuel Consumption Per Hour at Average Load Factor		
	At Anchor	At Berth
Fuel Type (IFO, HFO, DFO, MGO)		
Fuel Sulphur Content (%)		
Average Load Factor (% of maximum power)		
Number of Hours Used in Canada		
Fuel Consumption Per Hour at Average Load Factor		

BOILER 1

Fuel Type (IFO, HFO, DFO, MGO)	
Fuel Sulphur Content (%)	

Underway

Number of Hours Used In Canada		
Fuel Consumption Per Hour		
	At Anchor	At Berth
Number of Hours Used In Canada		
Fuel Consumption Per Hour		



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BOILER 2

Fuel Type (IFO, HFO, DFO, MGO)	
Fuel Sulphur Content (%)	

Underway

Number of Hours Used In Canada
Fuel Consumption Per Hour

	At Anchor	At Berth
Number of Hours Used In Canada		
Fuel Consumption Per Hour		

BOILER 3

Fuel Type (IFO, HFO, DFO, MGO)	
Fuel Sulphur Content (%)	

Underway

Number of Hours Used In Canada
Fuel Consumption Per Hour

	At Anchor	At Berth
Number of Hours Used In Canada		
Fuel Consumption Per Hour		

NOTES
