



OIL TANKERS IN CANADIAN WATERS

SUMMARY PRESENTATION

clearseas.org



OIL TANKERS 101

Roughly 60% of all oil transported worldwide travels by tanker. How do oil tankers compare to other commercial ships?



Oil Tanker

- Transports oil, refined or unrefined
- Piping visible on deck
- No large cranes visible



Container Ship

- Transports shipping containers
- Containers stacked visibly above deck
- Large crane visible



Roll-on/Roll-off (RORO) Ship

- Transports wheeled cargo, such as cars
- Sits high above the water
- Multiple vehicle decks



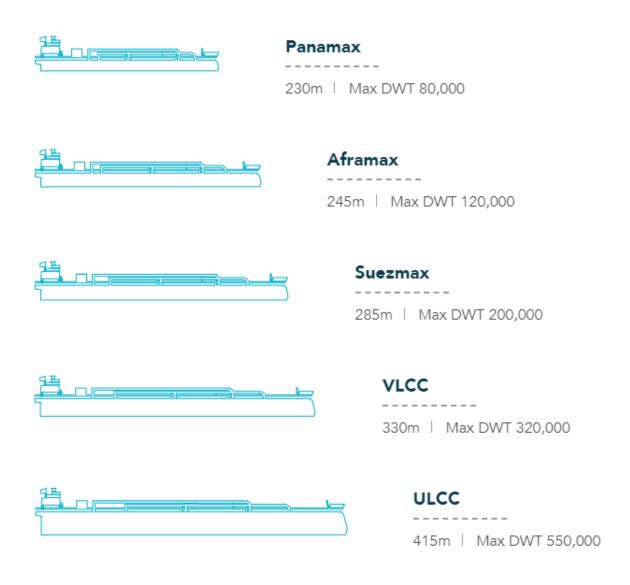
Bulk Carrier

- Transports unpackaged cargo, such as coal, grain and iron ore
- Large hatches visible on deck
- Can have large cranes visible



OIL TANKERS 101

- Tanker types are based on purpose and sizes
- Capacity is measured in deadweight tonnage (DWT)





TANKERS IN CANADIAN WATERS

- Over 20% of total tonnage handled by Canadian ports is petroleum
- 20,000: estimated number of tankers transiting in Canadian waters annually
- 85% of these transits take place on the Atlantic coast





OIL TRANSPORTED IN CANADIAN WATERS



*MT = millions of tonnes

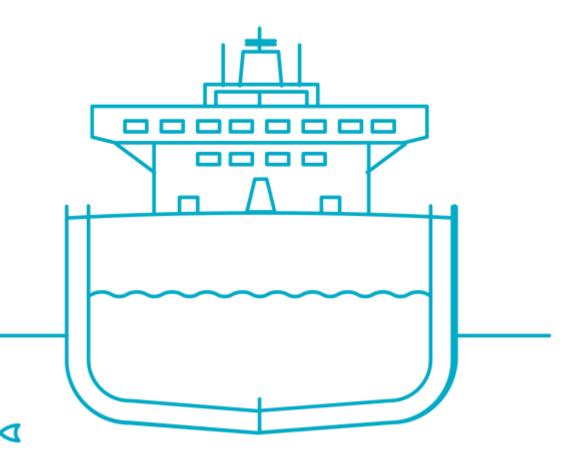


MARINE OIL SPILLS

All vessels carrying oil-based products as fuel or cargo contribute to the risk of an oil spill.

Common causes of marine oil spills

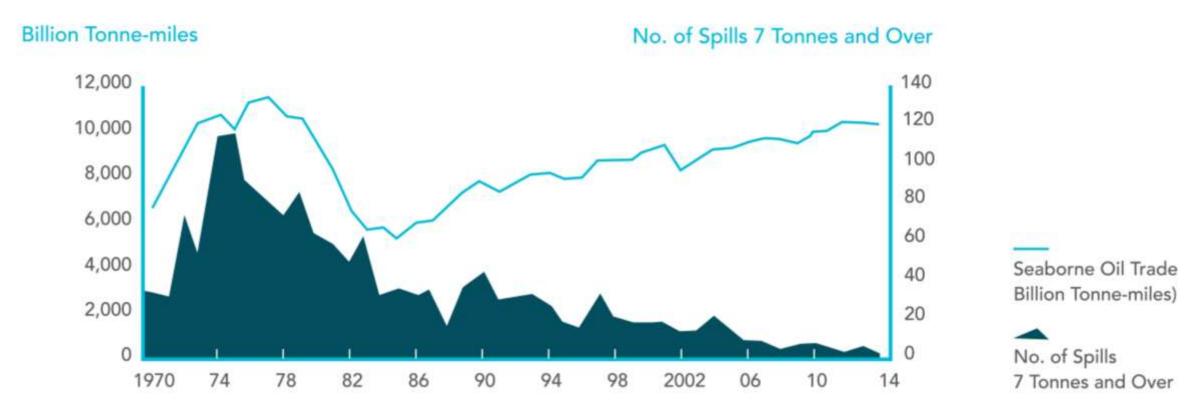
- Groundings
- Collisions and allisions
- Hull or equipment failures





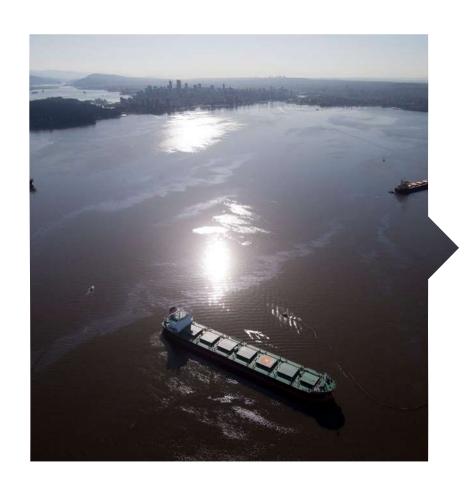
MARINE OIL SPILLS

The number and volume of oil spills have been decreasing globally over the past decades.





OIL SPILLS IN CANADIAN WATERS



 Most recent tanker spill (>10,000 L) happened 20+ years ago

2003 to 2012:

- 67% of ship-source oil spills recorded were <1,000 L
- 78% of large spills (>10,000 L) recorded involved fuel oil – did not result from a tanker cargo spill



OIL SPILL PREVENTION

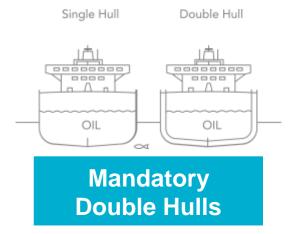
Measures to prevent ship-source spills in Canadian waters include:













OIL SPILL RESPONSE

To enter Canadian waters, tankers must have an agreement with a certified response organization (RO).

Response organizations either help with response efforts or clean-up on behalf of the tanker (polluter).





LIABILITY & COMPENSATION

The polluter is responsible for the clean-up efforts and the cost of clean-up.

Sources of compensation available:

	Ship Source Oil Pollution Fund (SOPF)	Unlimited
+	Supplementary Fund Up to \$994.7 million	\$1.36 billion
+	1992 Fund Up to \$205.9 million	\$369.1 million
+	Tanker Owner's Insurance \$8.2 million up to \$163.2 million	\$163.2 million



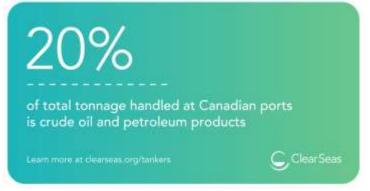


barrels is how much oil the largest tankers in the world can carry

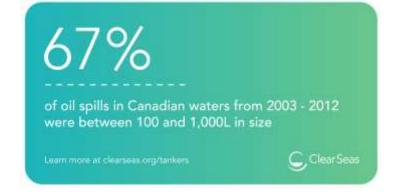
Learn more at clearseas.org/tanker





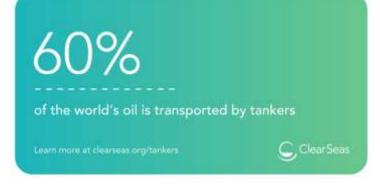


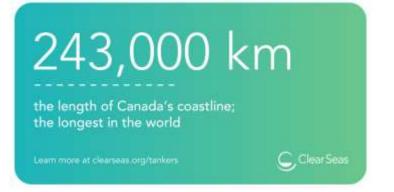














INFORMATION



Clear Seas Centre for Responsible Marine Shipping is an independent not-for-profit research centre that supports safe and sustainable marine shipping in Canada.



Reports and findings available at clearseas.org



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