OIL TANKERS IN CANADIAN WATERS
SUMMARY PRESENTATION

clearseas.org
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
• 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

Pacific Coast

Canadian Traffic

6MT

US Traffic Through Canadian Waters

37MT

Atlantic Coast

Great Lakes, St. Lawrence Seaway

24MT

Estuary and Gulf of St. Lawrence

67MT

Atlantic Coast

192MT
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.
• 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
Measures to prevent ship-source spills in Canadian waters include:

- Local Marine Pilots
- Tug Escorts
- Navigational Aids
- Marine Inspections
- Mandatory Double Hulls
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:

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship Source Oil Pollution Fund (SOPF)</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Supplementary Fund</td>
<td>$1.36 billion</td>
</tr>
<tr>
<td>Up to $994.7 million</td>
<td></td>
</tr>
<tr>
<td>1992 Fund</td>
<td>$369.1 million</td>
</tr>
<tr>
<td>Up to $205.9 million</td>
<td></td>
</tr>
<tr>
<td>Tanker Owner’s Insurance</td>
<td>$163.2 million</td>
</tr>
<tr>
<td>$8.2 million up to $163.2 million</td>
<td></td>
</tr>
</tbody>
</table>
4 million
barrels is how much oil the largest tankers in the world can carry

Learn more at clearseas.org/tankers

100%
of tankers must have double hulls

Learn more at clearseas.org/tankers

20%
of total tonnage handled at Canadian ports is crude oil and petroleum products

Learn more at clearseas.org/tankers

85%
of all tanker movements in Canada currently take place on the Atlantic coast

Learn more at clearseas.org/tankers

67%
of oil spills in Canadian waters from 2003 - 2012 were between 100 and 1,000L in size

Learn more at clearseas.org/tankers

30%
of global maritime trade is oil and gas shipments

Learn more at clearseas.org/tankers

$Unlimited
compensation is available if a tanker oil spill occurs in Canada

Learn more at clearseas.org/tankers

60%
of the world’s oil is transported by tankers

Learn more at clearseas.org/tankers

243,000 km
the length of Canada’s coastline; the longest in the world

Learn more at clearseas.org/tankers
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

Join our mailing list here