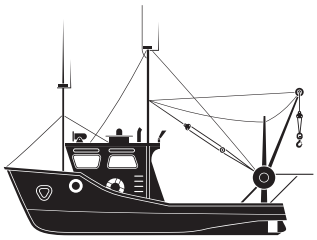
What is VGP?

Vessel General Permit is a regulation put in place to stop harmful lubricant discharge and its impact on U.S. waterways.



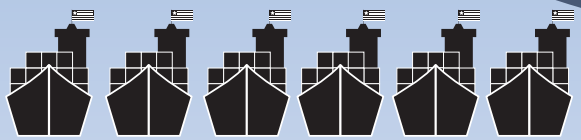
Applies to vessels that are 79 ft or greater in length

Covers all U.S. waters, including seaward from coasts & Great Lakes up to

3 MILES

Deck
Suggested

Below waterline
(oil-to-sea interfaces)
Required

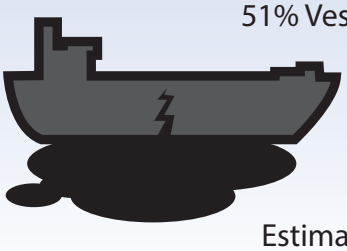


61,000 U.S. ships subject to VGP

(EPA estimates)

8,000 Foreign ships subject to VGP

Top 5 Inputs of Lubricants in World's Marine Port Waters



51% Vessel Operational Discharges
19% Tank Ship Spills
10% Lube Leakages
7% E&P Produced Waters
7% Tanker Cargo Washings

Estimated annual total discharge:
37-61 M liters (10-16 M gallons)

What is an EAL?

An environmentally acceptable lubricant (EAL) is a VGP compliant lubricant.

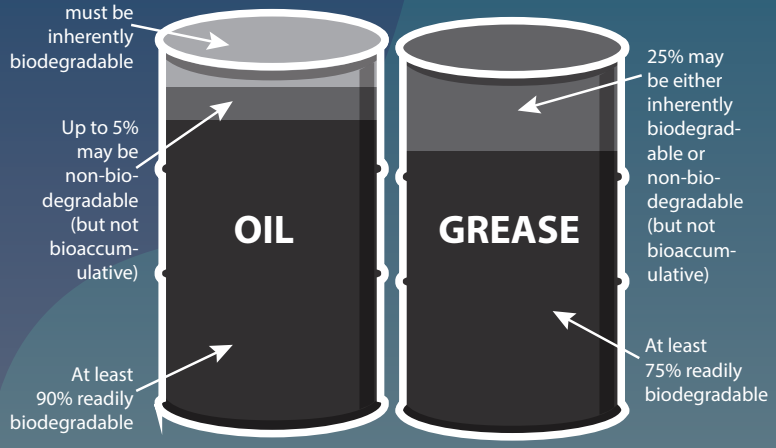
EALs are:

- biodegradable
- minimally toxic
- not bioaccumulative

… as defined in Appendix A of the 2013 VGP

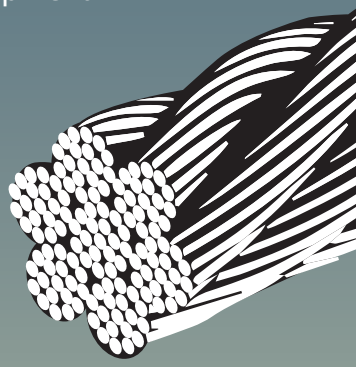
EAL Base Oil Selections

- Soybean, canola, sunflower plus blends
- Other vegetable matter base stocks
- PAGs
- Synthetic esters



VGP affects a wide range of equipment

- Wire rope
- Stern tubes
- Controllable pitch propellers
- Azipods
- Rudder bearings
- Stabilizers
- Thruster azimuth bearings
- Thruster hydraulic fluids
- Mechanical equipment subject to immersion



Sources: http://www.epa.gov & http://water.epa.gov/polwaste/npdes/vessels/Vessels-Background.cfm

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Go Green Without Sacrificing Performance

Earthwise™ Environmental Acceptable Lubricants

LE's new Earthwise™ EAL oil and grease are specifically formulated to be earth friendly while still meeting the rigorous demands of industrial applications. With these products, you can "go green" – and keep up with the latest environmental regulations – without having to sacrifice performance. The Earthwise line of certified Environmentally Acceptable Lubricants (EALs) are recommended for use in applications on or near waterways. They meet the specifications required by the EPA's Vessel General Permit (VGP) and are readily biodegradable, exhibit minimal aquatic toxicity, and will not accumulate in the cells of fish and other aquatic life forms.

Earthwise™ EAL
Wire Rope Grease
(3353)

Earthwise™ EAL
Syn Hydraulic Oil
(3332, 3346, 3368)

Beneficial Qualities

- Certified Environmentally Acceptable Lubricants
  - Meet VGP standard for aquatic toxicity
  - Meet VGP standard for biodegradability
  - Meet VGP standard for bioaccumulation
- Well-suited for applications in or around waterways

For more information about these VGP-compliant EALs, contact us today.

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