



## Biodegradable Bar and Chain Oil

Airable partnered with Dynamic Green Products (DGP) to commercialize a soy-based bar and chain oil—the first to be certified ultimate biodegradable. Historically, operators have used petroleum-based oils, but as chainsaw lubricant is a 100% loss application, the environmental implications are evident.

### THE TECHNOLOGY

Many vegetable oils have excellent natural properties for this application, such as lubricity, good shear resistance, and a high viscosity index. However, these oils also present challenges, such as a tendency to thicken in cold temperatures.

Initially, canola oil was DGP's bio-based component of choice. Airable presented the advantages of working with soy, including its chemical versatility, widespread availability, and affordability relative to most vegetable-based alternatives to petroleum. The resulting product is a drop-in replacement for petroleum lubricants, compatible with gas and electric chainsaws.

### THE MARKET

DeWALT Biodegradable Bar and Chain Oil launched in 2022 and realized rapid success. The product quickly rose to #1 on Amazon's best-selling Bar & Chain oil list, and sales at Home Depot have been so impressive that, as of 2026, the chain is expanding the offering to 2,025 locations.

### BENEFITS

- USDA Certified Biobased Product
- EPA Environmentally Acceptable Lubricant
- Good performance in ASTM testing for wear, corrosion, load, flash point, and pour point
- Cost-competitive components