



## Engine Oil Additives

Lubrizol engine oil additives are comprehensively designed to protect all types of engines in a variety of operating environments. The breadth of our product offering ranges from basic technology suitable for use in older vehicles to the latest OEM approved lubricants. With their unique understanding of chemistry, technology and the engine oil market, our people deliver the real world solutions our customers expect. Backed by decades of experience in the science of lubrication additives, we formulate market leading technologies to meet the needs of today's engines: increased durability, reduced emissions and improved fuel economy.

### Products and Applications

**Heavy Duty Engine Oils:** Lubricants used in "on-highway" and "off-highway" heavy-duty vehicle applications are classified as heavy duty engine oils. Additive systems for heavy duty engine oils often need to simultaneously address multiple performance attributes such as high heat/heavy soot, after-treatment devices, fuel economy and wear.

**Passenger Car Engine Oils:** Automotive lubricants used in car and light-duty truck engines are classified as passenger car engine oils, designed for vehicles that operate using gasoline, diesel and alternative fuels. Lubrizol's comprehensive product line provides a full range of performance additive packages and boosters worldwide.

**Marine Engine Oils:** Marine diesel engines require unique oils that can address the combustion effects of heavy fuels. Whether it is a 4-stroke engine or the world's largest 2-stroke, Lubrizol has chemistries to formulate oils that can meet the requirements of OEMs as well as the demands of ship owners worldwide.

In addition, Lubrizol formulates a range of products to meet a variety of performance needs from lubricant additives for **motorcycle and recreational vehicle** engines to additives technologies that can significantly extend the life of **everyday power tools**. Lubrizol also delivers top-of-the-line formulations for **stationary gas engine oils**.

### Research, Manufacturing and Sales

The Lubrizol Corporation is geographically diverse, with an extensive global manufacturing, supply chain, technical and commercial infrastructure. Lubrizol owns and operates manufacturing facilities in 17 countries, as well as sales and technical offices around the world.

### Contact Information

For additional information about our additives for engine oils, visit our Web site at [www.lubrizol.com](http://www.lubrizol.com).

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