



**LUBRICATION ENGINEERS  
OF CANADA LIMITED**



Manufactures and distributes a comprehensive line of high-performance lubricants that far exceed conventional lubricants in a variety of industrial and automotive applications. By significantly reducing downtime and maintenance costs, LE lubricants are also cost-effective, returning the initial price of the lubricant many times over.

LE's enhanced lubricants are made of highly refined or synthetic base oils as well as the following proprietary additives, which LE developed for exclusive use in its lubricants.

- **Almasol**<sup>®</sup> solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and temperatures up to 1,900°F (1,038°C). It is attracted to metal surfaces, forming a microscopic layer but not building on itself or affecting clearances
- **Monolec**<sup>®</sup> liquid wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing film strength without affecting clearances
- **Duolec**<sup>®</sup> dual-acting additive imparts synergistic properties to lubricants, providing both wear-reducing and extreme pressure protection. It increases film strength and is temperature-activated to provide a protective layer
- **Quinplex**<sup>®</sup> impact-resistant additive contributes to outstanding water resistance, tackiness and mechanical stability, and helps to form a barrier against corrosion

### LE's industrial greases

#### General purpose bearing grease to extreme pressure grease

Lubrication Engineers offers a full line of high-performance industrial greases. Included in the LE grease line are technologically advanced, highly versatile, general purpose, multifunctional, and extreme pressure (EP) varieties, all of which outperform conventional greases. LE's industrial greases are formulated with a variety of thickener types, including lithium complex, calcium sulfonate, clay (bentone), and polyurea; and they come in a range of NLGI grades.

Features of LE greases, which vary depending on the type of grease, include exceptional load-carrying ability, high dropping point, low evaporation rate, low oil separation and mechanical stability. Features such as these make LE greases effective for a wide variety of industrial and fleet applications, including high-temperature and high-moisture operations and extended service under extreme conditions.

LE also supplies food grade greases that meet NSF H1 requirements for incidental food contact and are certified Kosher Pareve by the Orthodox Union and Halal by INFANCA.

**800-465-8237**

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### Industrial Gear Oils

#### High-performance gear oil for industrial gearbox applications

Industrial gearboxes are expected to perform under conditions of high heat and heavy loads; and in environments often contaminated with dirt, process debris and water. Without adequate protection, gears will wear prematurely. You'll have to replace parts more frequently, change oil more frequently, and worst of all, you'll experience equipment downtime. To combat difficult conditions, LE offers an array of lubricants specially formulated for enclosed industrial gearbox applications

### Food Grade Oil & Grease Solutions

When it comes to food, beverage and pharmaceutical applications, Lubrication Engineers food grade oil and food grade grease can play a significant role in preventing costly damage brought on by severe operating conditions. High-performance H1 and H2 products include solutions for heat, cold, moisture, rust and oxidation (R & O), wear and more.

Options include 100 percent synthetic lubricant formulas as well as synthetic-paraffinic blends. Aerosol versions are also available. Some food machinery lubricants are additive-free, USP-grade white mineral oils, while others contain LE's exclusive additives, specially designed to enhance performance. Quinplex®, Almasol®, Monolec® and Duolec® are additives that impart various qualities to our food machinery lubricants, including impact resistance, wear reduction, and increased oil film strength.

### Turbine Oils

#### LE offers turbine oil formulations for all types of turbines

Lubrication Engineers has created unique blends of gas turbine oil, steam turbine oil and hydroelectric turbine oil to protect the parts of even the most high-maintenance machines. Whether your business relies on mainline / baseload turbines or peaking turbines, LE's premium turbine oils will inject new life into your equipment, relieving it of excessive temperatures and enabling it to bear heavy loads with greater ease. LE turbine oils are available for units driven with or without reduction gears in a variety of ISO viscosity grades ISO 32, ISO 46 and ISO 68.

In addition, LE's Low Tox® Turbine Oils feature low ecotoxicity for environmentally sensitive applications.

### Hydraulic Oils for Mobile & Stationary Applications

It's no industry secret: One of the best ways to run your hydraulic systems smoothly is to use the right hydraulic fluid. Lubrication Engineers offers a full line of multifunctional hydraulic oils, including several 100 % synthetic formulations, all of which outperform conventional hydraulic fluids. They provide superior rust prevention, water separation ability, high film strength and excellent handling under extreme pressure. They ensure smooth transition of power and protect metal surfaces from corrosion.

### Industrial Oils

#### LE's industrial oils work for countless applications

Lubrication Engineers large selection of industrial oils are well-suited for a vast array of uses, including long-service-life applications, high and low-temperature applications, applications with the possibility of incidental food contact and outdoor applications in marine environments and other areas where environmental concerns require the use of a very low-toxicity lubricant. LE industrial oils are available in a wide range of ISO grades, with viscosities to meet any application requirement.

Most of our industrial oils contain at least one of LE's proprietary additives to improve performance, including:

- Monolec®, a wear-reducing additive that creates a single molecular lubricating film on metal surfaces
- Quinplex®, an impact-resistant additive that helps to form a barrier against corrosion
- Duolec®, a dual-acting additive that imparts synergistic properties to lubricants, providing both wear-reducing and extreme pressure protection

### Premium Engine Oils for Diesel and Gasoline Engines

The technology exists to build high-performance engine oils that can withstand conditions and rigors for diesel trucks, passenger cars, light duty trucks and stationary engines. Typically, engine oils are made up of 70 to 90 percent base oil and 10 to 30 percent additives. Lubrication Engineers uses premium quality base oil and best-in-class additive technology to formulate engine oils that maintain their viscosity, keep engine wear to a minimum, and help ensure dependability. LE engine oils are formulated to meet the needs of our industrial customers and in most cases easily exceed the Automotive Performance Institute (API) specifications for performance.

### Synthetic Lubricants

At Lubrication Engineers, we know that non-synthetic lubricants aren't always the best lubricants for the job. In applications with extremely high or extremely low temperatures or very heavy loads, synthetic lubricants may overcome the challenges better than non-synthetic lubricants. For example, a synthetic gear oil would provide exceptional protection in heavily loaded gearboxes exposed to high and low temperature extremes. Another example is a synthetic engine oil or synthetic motor oil, which would provide better viscosity stability in extreme temperature conditions.

The performance advantages offered by synthetic oils and synthetic greases vary by product, but they include improved thermal stability, improved oxidation resistance, a high viscosity index, improved low-temperature properties, lower evaporation losses, reduced flammability and a lower tendency to form residues.

LE's synthetic oil and synthetic grease varieties contain special additives that further enhance their performance. Depending on the particular lubricant and what LE formulated it to do, these additives include one or more of the following:

**Monolec®** - LE's exclusive wear-reducing additive creates a single molecular lubricating film on metal surfaces, vastly increasing oil film strength without affecting clearances. Monolec® allows opposing surfaces to slide by one another, greatly reducing friction, heat and wear.

**Almasol®** - LE's exclusive solid wear-reducing additive is able to withstand extremely heavy loads, chemical attack and extremely high temperatures. It is attracted to metal surfaces, forming a microscopic layer without building on itself or affecting clearances. Almasol® minimizes metal-to-metal contact and the resulting friction, heat and wear.

**Quinplex®** - LE's exclusive impact-resistant additive helps to form a barrier against corrosion and enables outstanding water resistance, tackiness and enhanced mechanical stability.

### Open Gear Lubricants

#### Grinding, pulverizing, breaking - open gears can take a beating

Large open gears take a severe beating on a daily basis. Challenging conditions include outdoor environment, extended service operation, dust, silica, water, extreme heat and extreme pressures. Open gear lubricants must be specially formulated to keep equipment operating at maximum efficiency. Whether you operate a ball mill, rod mill, breaker mill, or kiln, Lubrication Engineers Pyroshield® line of heavy-duty synthetic open gear lubricants can help protect your valuable equipment and keep it running harder and lasting longer. If you are interested in making your large open gears last longer, lowering the amount of lubricant you use, and reducing overall maintenance expenditures, then we have the solutions for you.



### Wire Rope Lubricants

Proper lubrication of your wire rope, chain and cable can safely extend its operational life regardless of application. Cranes, elevators, shovels, drilling rigs, suspension bridges and draglines are some of the many applications that use wire rope, chain or cable to perform work such as pulling, dragging or hoisting. These applications often are exposed to harsh environmental conditions, including extreme weather. Lubrication Engineers can help your wire rope, chain and cable last longer and operate safely by implementing a lubricant reliability program and recommending the right lubricants for the job.

### Fuel Treatments for Diesel & Gasoline Engines

With the high cost of fuel and the need to get every last mile of performance out of your engines, LE's fuel conditioners are a simple solution for improving engine performance and improving fuel economy. These gasoline and diesel fuel treatments have been formulated for use in heavy-duty industrial fleet applications. Whether you operate trucks, buses, farm vehicles, construction equipment, marine engines, or even mowers and chainsaws, our fuel treatments help you maximize engine performance and save on fuel costs – making you greener in the process.

Full Torque is a cetane-boosted, detergent-containing fuel additive formulation that increases power, improves fuel economy, reduces emissions, and provides smoother performance year-round in diesel engines. Full Torque's cetane booster increases a fuel's cetane number up to three numbers, resulting in faster ignition time, more power, easier starts and less smoke at startup. This hard-working diesel fuel conditioner is also loaded with special detergents that keep injector systems clean and working at maximum performance, as well as ingredients that protect against wear, water and corrosion. Full Torque has been formulated to work with today's biofuels, ultra low sulfur diesel (ULSD) fuels, and renewable diesel fuels. It also works with today's high pressure common rail systems.

## Air Compressor Lubricants

### Lubrication is critical to efficient air compressor operation

Most factories and manufacturing facilities use compressed air systems for a variety of applications, and keeping these air compressors running is critical to keeping the entire operation running. Nearly all air compressors require a form of lubricant to cool, seal or lubricate internal components. Proper lubrication will ensure that your equipment will continue operating, and the plant will avoid costly downtime and repairs. Proper lubrication also will help air compressors run cooler and consume less electrical energy. It is simple: reduced friction = reduced heat = reduced energy consumption. Compressed air systems in most manufacturing plants consume a majority of the daily power requirements, so if you are looking for a continuous improvement project, reducing energy costs through better lubricant practices is a sure winner.

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## Transmission Fluids

### LE's versatile transmission fluids keep fleets running

The purpose of a transmission fluid is to cool and lubricate, ensuring smooth performance of your vehicle. The quality of your transmission fluid is especially important in extreme driving conditions such as heavy loads, steep terrain, continuous operation and lots of starts and stops.

Known worldwide for its heavy-duty, high-performance transmission fluids, LE works with small and large customers operating fleets of on- and off-road vehicles and mobile equipment. These customers depend on LE's transmission fluids to protect their valuable mobile assets. Together, LE transmission fluids and engine oils together will help any size operation keep its fleet running and avoid costly downtime and repairs.

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## Oven Chain Lubricants

### Keep ovens working with superior oven chain lubricants

Process ovens in food processing plants and other manufacturing facilities are vital to production output, but keeping them properly lubricated can be difficult. Extreme temperatures, continuous operation and – in some cases – dirty operating conditions are typical challenges. Offering several high-performance lubricant formulations, Lubrication Engineers has helped companies worldwide with their process oven lubrication needs. If you are interested in creating more uptime for your operation, let LE's experienced and certified consultants help you overcome the challenges of oven chain lubrication.



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## Aerosol Lubricants

### Heavy-duty industrial lubricants in convenient aerosol cans

If you need a small amount of lubrication in specific areas or just want to give your operators additional flexibility for handling lubrication problems, Lubrication Engineers offers several of its great industrial lubricants in easy-to-use convenient aerosol cans. These are the same formulations used in our non-aerosol versions. LE's aerosol lubricant line includes a variety of options to take care of nearly any industrial or residential lubricant application, including:

- Penetrating lubricants
- Wire rope, chain and cable protection
- Food machinery lubricants
- Extreme condition synthetic lubricants



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