

IM *International* **mining**

Informed and in-depth editorial on the world mining industry

**More new
machines
from Bauma**

**Drives and
controls**

**LIBERIA:
back on the map**

**AGNICO-EAGLE:
Canada's golden future**



AEM

**AGNICO-EAGLE
MINES LIMITED**

Did you know?... LUBRICATION ENGINEERS® INC is "THE LUBRICATION RELIABILITY SOURCE™" for Mining

The Global Mining Industry's growth continues to accelerate and so does the competition within it. The subject of RELIABILITY has therefore never been more important for Mining companies operating expensive equipment in severe environments – extremes of temperature, contamination and very high loads. They require specialist lubricant companies that can reduce their huge maintenance & operating costs whilst also increasing their productivity.

Since 1951 Lubrication Engineers® (L.E.) Inc has been one of the most respected specialist industrial lubricant companies for its premium range of Enhanced Lubricants™. L.E. lubricants increase profitability for our Mining customers through longer equipment life, extended service intervals, energy reductions, fewer repairs & improved reliability (less expensive downtime!) Lubrication Engineers® Inc has now built on its reputation for improving mine reliability with its lubricants by negotiating a series of exciting associations with several other leading companies involved in the "Reliability" field. Our Mining customers can now be more confident than ever in Lubrication Engineers as "The Lubrication Reliability Source™". L.E. currently enjoys great success working with Mines in USA, Canada, Chile, Peru, Argentina, South Africa, India & Australia.

L.E. Lubrication Consultants worldwide are now able to offer these L.E. mining customers not only the best lubricants available, but also a range of other quality reliability improving products such as oil storage & handling systems, oil sight glasses and lubrication equipment.

Lubrication Engineers® Inc already offers its own series of Reliability Programmes:

■ L.E. Enhanced Lubricants™:

L.E.'s mineral & synthetic lubricants are engineered to achieve optimum performance in a specific range of applications without limitations on the base oil type or additives used. Critical Mining Applications targeted include: Ball Mills, Loaders, Heavy Shovels, Draglines and Crushers. Key L.E. Mining product ranges include PYROSHIELD® Open Gear Lubricants, ALMASOL® EP Enclosed Vari-Purpose Gear Oils, ALMAGARD® EP Greases, BTU+ Diesel Fuel Supplements as well as specialist MONOLEC® & ALMASOL® Wire Rope Lubricants.

■ Lubrication Engineers Analysis Programme (LEAP):

This programme enables customers to monitor the condition of their lubricants & equipment through a progressive oil analysis.

■ ZAP! Energy Saving Programme:

L.E. Lubrication consultants work with their customers to identify where in their business it is possible to save energy & operating costs by using L.E. lubricants. L.E. products enable Mines to ZAP! their enormous electrical energy costs by substantially reducing friction, heat & wear in critical applications.

L.E. International AG is proud that its Lubrication Consultants are now able to offer mining customers

worldwide other Reliability linked products including:

■ **Noria Corporation** – Consulting & Education Services – on-site, public & web-based training courses, consulting services and Lubrication Programme Design (LPD)

■ **Oil Safe® Lubrication System** – Lubricant handling systems of dispensing containers that make machinery lubrication easier, faster & cleaner

■ **Des-Case** – Contamination control technology.

■ **Esco Oil Sight Glasses** – Easier observation of oil contamination.

■ **Tote-A-Lube** – Patented stackable poly tanks for storage & dispensing.

"L.E. is committed to increasing our Mining customers' equipment reliability & resulting profitability. Our high performance Enhanced Lubricants were specially developed for the extreme operating conditions found in Mines – our growing market share is clear evidence of the difference our lubricants can make to expensive Mining operations", said new L.E. Inc President, Scott Schwindaman.

L.E. Enhanced Lubricants™

Versatile lubricants with unequalled performance – L.E. products are designed to give unmatched performance in virtually any application operating under conditions that vary from normal to severe.

L.E. has dedicated their resources to continually provide customers with high performance, consistent quality lubricants.

R&D continually investigates advanced technology to develop tomorrow's lubricants. LE's own additive company, The Almasol Corporation, perfected wear-reducing additives which have been used on every US manned space mission.

Customers benefit from LE's exclusive and proprietary additives:

ALMASOL® – Greatly reduces friction, heat & wear while withstanding very high loads and temperatures up to 1900°F (1038°C)

MONOLEC® – Vastly increases oil film strength while reducing friction, heat and wear.

QUINPLEX® – Provides water and moisture resistance.



PYROSHIELD® – For use in extreme heavy duty and shock loading

Superior base oils – L.E.'s petroleum lubricants contain 100% Mid-Continent paraffinic base oils. Using special refining techniques, these base oils have a saturated molecular structure similar to the synthetic PAO's. Thus, they offer excellent oxidation resistance, superior lubricity, long life and few deposits / sludge.

Uninterrupted Supply – is assured through L.E.'s huge inventory of highest quality base stocks.

L.E. manufactures and markets its comprehensive line of heavy-duty, premium quality lubricants under an ISO9001 certified quality system at their world class plant in Wichita, Kansas, USA. L.E. products are available globally (outside USA, Canada & Mexico) through L.E. International AG's distributor network in over 50 countries.

Leaders in Lubricants 

L.E. manufactures:

- Greases
- Open & Enclosed gear lubricants
- Food Grade lubricants
- Power fluids
- Fuel supplements
- Engine Oils
- Hydraulic Oils
- Turbine Oils
- Rock Drill Oils
- Compressor Oils
- Synthetic Lubricants
- Wire Rope Lubricants

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