Lubricant Specialists Australia

ROCKDRILL OILS

Mineral oil based heavy-duty Hammer Lubricant

LSA Rockdrill oils are specially formulated to lubricate air operated equipment such as rock drills, jumbo drills, jackleg drills, jackhammers, paving breakers, pile drivers, small air tools and motors, airline oilers and other pneumatic equipment.

LSA Rockdrill oils are mineral oil based products with extreme pressure, anti-rust, anti-wear and anti-fogging additives to provide high film strength oils to lubricate all moving surfaces, whilst withstanding high load shocks.

LSA Rockdrill lubricants contain additives designed to substantially reduce failure of drill bits due to the impact of humidity and high operating loads and pressures causing seizure.

The high viscosity index provides optimum lubrication for both low start-up temperatures and high operational temperatures.

LSA Rockdrill oils are available in ISO viscosity grades 150, 320, and 460, plus an ISO VG 320 with molybdenum disulfide for more demanding applications.

BENEFITS

- Increased tool life over conventional lubricants.
- Superior adhesion due to tacky additives.
- Excellent dispersancy properties and washout resistance, which resists against rust and corrosion.
- Increased drilling penetration due to efficient lubrication.
- Reduced downtime in changing drill bits.
- Reduces failure of drill bits in deep mining operations due to sudden expansion of compressed air mixed with atmospheric moisture at the bit end, eliminating the “freezing” effect.
- Excellent extreme pressure lubrication – provides wear protection to moving parts under extremes of temperature and pressure.
- High operating viscosity – retains viscosity at high temperatures, ensuring effective sealing and optimum performance of the hammer.
- Reduced injection rates with no reduction in lubrication of the hammer.

APPLICATION

- Rockdrill 150 is recommended for use in most small and medium sized tools.
- Rockdrill 320 and Rockdrill 460 are recommended for large pneumatic hammers.
- As a general rule, the following consumption applies based on maximum air pressure of 350 psi (2400 kPa):

Hole size (mm)	Volume (L/h)
92 – 127	1.5 – 2.5
190 – 215	2.5 – 3.0
215 – 222	3.0 – 3.5

NOTE: Efficient operation of all pneumatic tools depends on a supply of clean air at the rated pressure. An air filter should be installed in the line even though the tool itself will usually have its own filter.

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TYPICAL CHARACTERISTICS

Property	Unit	Test Method	Rockdrill 150	Rockdrill 320	Rockdrill 460
ISO grade		ISO 3448	150	320	460
Appearance		Visual	Amber Fluid	Amber Fluid	Brown Fluid
Odour			Mild	Mild	Mild
Density @ 15°C	Kg/L	ASTM D1298	0.896	0.892	0.89
Flash Point PMCC	°C	ASTM D92	252	252	260
Pour Point	°C	ASTM D97	-9	-6	-6
Viscosity at 40°C	mm2/s	ASTM D445	150	320	460
Viscosity at 100°C	mm2/s	ASTM D445	14.7	24.4	30.2
Viscosity Index		ASTM D2270	100	98	97
Rust Preventing Characteristics		ASTM D665	Pass	Pass	Pass
Corrosiveness to copper		ASTM D130	1a	1a	1a
Four-Ball EP Test Weld Load	kg	ASTM D2783		250	

Pack Sizes **1000 litres**
205 litres
20 litres

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