

## **LSA ROCKDRILL EXCEED 460** *(Improved formulation)*

**LSA Rockdrill EXCEED 460** is a clear formulation oil that uses highly refined base oils and special additives with anti-wear, anti-rust, anti-friction, extreme pressure and tackiness agents; specially formulated to meet the lubrication requirements of high speed, heavily loaded rock drills, drifters, hammers and other pneumatically operated equipment.

It is blended from solvent refined paraffinic high viscosity index base stocks which allow it to operate over a wide temperature range giving excellent thermal stability and resistance to oxidation.

The additive package provides extreme pressure qualities as well as protecting against rust, corrosion and oxidation.

### **CHARACTERISTICS**

The moving parts of a rock drills are designed to perform under hydrodynamic lubrication conditions, a full fluid film separates the metal surfaces of the moving parts during operation. However this film can be destroyed during periods of cold start-up and severe shock loads.

Advanced technology anti-wear properties provide lubrication to the metal surfaces of rifle bars, drill pistons and cylinders of the rock drills. These will withstand very high pressures, thus reducing wear and extending equipment life.

The tackiness additive increases oil surface tension, strengthens adherence to metal surfaces, reducing fling-off and water wash-out.

A range of available viscosities allows the selection of the optimum lubricant. The correct viscosity ensures that the lubricant feed from line oilers and other types metering devices provide effective trouble free lubrication to every lubricated surface of the equipment. Incorrect viscosity leads to inadequate lubricant coverage with resultant high wear rates, decreased equipment service life or even costly premature equipment failures.

**LSA Rockdrill EXCEED 460** is classified as non hazardous to the environment and has negligible odour. These can be important characteristics when exhausting oil mist into confined areas, including underground mining.

### **TYPICAL CHARACTERISTICS**

Properties	ASTM TEST	Value
ISO Grade		460
Colour		Green
Viscosity @ 40°C cSt	D445	460
Viscosity @ 100°C cSt	D445	30.2
Viscosity Index	D2270	98
Flash Point °C	D92	260
Pour Point °C	D97	-15
Timken OK Load (lbs)	D2782	75
4 Ball EP – Weld Point (kg)		254
4 Ball EP – LWI (kg)		48
Rust Prevention Characteristics		Pass
Copper Strip Corrosion		1b
Density @ 15°C g/ml	D4052	0.895

**Packs**

**1000 litre  
205 litre  
20 litre**