



**Performance Improvements using
Liquid Shield Polar Rock Drill Oils**
25 Years - Liquid Shield Polar rock drill oils / air tool lubricant
 Powerful, economical protection for miners and equipment



Performance differences can you expect when switching to Liquid Shield Polar Rock Drill Oils
Immediate impacts:

- **Elimination of tool freeze up due to moisture in the compressed air supply**
 - LS Polar RDOs do not contain emulsifiers and deposit a barrier to water / ice
 - Positively charged esters adhere to steel like a magnet - reject contaminants
 - Especially suited to air motors - no more stalling due to ice formation



- **Elimination of gummy, sticky residues from lubricators, valves etc.**
 - LS RDOs do not contain emulsifiers which cause oil / water mechanical emulsions
 - Eliminate lost time due to cleaning valves, lines, etc.



- **Excellent Oil Fog Control**
 - Polar molecules promote RDO adhesion to the tool and binds the oil
 - Reduces oil fog generation
 - Improves working conditions, respiratory function, coughing



Long term impacts:

- Improved wear reduction due to polar ester adhesion
- Reduction of carbon buildup at critical heat points
- Increased service intervals
 - Less downtime due to equipment wear and compression loss
 - Air motors don't freeze up and are protected from water
 - Ideal for mechanical raise platforms

When selecting a rock drill oil, remember that heat and water contamination are the primary detrimental variables that reduce service intervals.

Liquid Shield polar rock drill oils maximize wear protection, and are a good investment.