



## QUAKER CHEMICAL'S QUINTOLUBRIC® LONGWALL FLUIDS BLOCK THE GROWTH OF DAMAGING BACTERIA

Bacteria can live in longwall hydraulic fluid, consuming portions of the longwall fluid in their growth, which lowers product performance. Bacteria feed on the emulsifiers used in semi-synthetic and soluble oil type fluids, which destabilize the emulsion resulting in emulsion bleed or oil split. Split longwall emulsions reduce fluid lubricity. Separated or split fluids can also cause other problems, including component corrosion and solenoid valve malfunction. "Our QUINTOLUBRIC® hydraulic fluids protect longwall equipment by dramatically blocking the growth of damaging bacteria, therefore increasing production time and reducing maintenance," says Peter Skoog, Quaker's Global Product Manager - Fluid Power.

Simple preventive measures can minimize microbiological growth in longwall hydraulic fluids, and as a result can protect longwall equipment from harmful bacteria. Quaker's advanced technological know-how enables this global leader in specialty chemicals to offer longwall fluid maintenance to customers, including regular sampling of longwall fluid in its laboratories for concentration, pH and microbiological populations. "A strong maintenance program can go a long way in keeping a longwall system up and running," notes Skoog, "Quaker's QUINTOLUBRIC® hydraulic fluids have helped customers keep their solenoids corrosion-free and their filters unplugged, as well as helped to eliminate worker infections."

Quaker's QUINTOLUBRIC® longwall fluids, proven for over 30 years in mines worldwide, protect equipment by blocking the growth of damaging bacteria. Quaker also offers DUSTGRIP™ dust suppressants and MINETECH™ gear lubricants and water soluble greases.

Bacteria can de-stabilize longwall fluid, causing oil separation, corrosion and odors.



Before using QUINTOLUBRIC® in the longwall tank.



After using QUINTOLUBRIC®, the tank has been clear and bacteria-free for five years and has never been cleaned.