PRODUCT BULLETIN

SPEC LUBE L88
Biodegradable LAO/ESTER Drilling Fluid Additive

SPEC LUBE L88 is a high performance drilling fluid lubricant for water-based drilling systems, utilizing a blend of Linear Alphaolefin's (LAO's) blended with a ester base. **SPEC LUBE L88** is an environmentally safe lubricity additive that provides a secondary function of well bore stability and shale inhibition. LAOs are man-made and contain no aromatics or the adverse properties of traditional mineral and diesel oils. Esters are man-made from soy and coconut extracts. **SPEC LUBE L88** enhances the performance of drilling mud in low pressure situations by coating the formation and drill string as well as acting as a boundary layer lubricant in high temperature and pressure applications. **SPEC LUBE L88** is readily dispersible and compatible with salt water based systems. **SPEC LUBE L88** has proven successful in solving problems relating to angle building, angle dropping, kick-off point difficulties, and mud motor drag.

Uses
¨ Reduces torque and drag
¨ Minimizes bit balling
¨ Decreases friction and wear
¨ Minimizes differential pressure sticking

Advantages
¨ Non-toxic
¨ Non-sheening
¨ Base fluid thermal stability > 600˚F (315˚C)
¨ No adverse effect on rheological properties
¨ Broad range efficiency
¨ Replacement for diesel, mineral oil-based fluids, or other synthetic base lubricant additives
¨ Meets EPA discharge requirements
¨ No effect on LC50 value of active fluid system

Packaging
¨ 55-gallon drum (208 liter)
¨ Returnable Rig storage containers 13bbl/550 gallon, (2.07m3)
¨ Disposable tote tanks

Physical Properties
¨ Specific gravity 0.80 - 0.85
¨ Viscosity SUS 100˚ 81.4
¨ Flash point COC >300˚F, (149˚C)
¨ Appearance Clear amber liquid
¨ Funnel viscosity 70˚ - 63 second 120˚ - 44 second

Recommended Treatments
¨ Drilling 1% - 6% by volume
¨ Pill application

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