Lube OB

Lube OB lubricant is an oil-soluble additive specifically engineered for use in all invert emulsion drilling fluids to decrease the coefficient of friction.

Decreasing the coefficient of friction reduces torque, drag and the potential of differential sticking in the wellbore.

Lube OB lubricant optimizes the performance of oil-base drilling fluids used on ERD wells or wells with complex trajectories that otherwise would be difficult to drill without exceeding the torque and drag limits of the rig. It also is recommended for slim-hole applications to increase the effective weight on bit (WOB) and hence ROP.

Product available as Lube OB and Lube 1017 OB variations for different markets.

Typical Physical Properties

Physical appearance .... Amber liquid

Odor ....Characteristic

Solubility in water ....Partially soluble

Specific gravity 0.98

Flash point ....>212°F (100°C) (PMCC)

Applications

Lube OB lubricant is used to reduce coefficient of friction in oil-base muds. Therefore, it is particularly beneficial in ERD and slim-hole wells (either TTRD or coiled tubing) and on wells with complex trajectories where drilling could exceed the torque and drag limitations of the rig. In slim-hole applications, reducing the coefficient of friction can increase the effective WOB, thus delivering higher penetration rates, which often are critical considerations for the economic success of slim-hole projects.

Applications Lube OB lubricant should be added at 1 to 3% concentration by volume depending on the severity of the problem.

Care should be taken when adding Lube OB lubricant to invert-emulsion systems with high solids as an increase of viscosity can occur. Pilot testing is strongly recommended to determine any effects on the system rheological properties for all initial applications and subsequent treatments.

Lube OB lubricant should be added slowly, directly to the mud system by maintaining a small constant stream wherever there is good agitation or through the mixing hopper.

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Advantages

- Effective, all-purpose lubricant for all invert-emulsion fluids.
- Decreases coefficient of friction, thereby helping reduce torque and drag.
- Reduces the potential for and the severity of differential sticking.

Limitations

- Can increase viscosity in high solids invert-emulsion fluids.
- For invert emulsion use only.

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

Lube OB additive is available in 208 l (55 gal) drums.
Store away from sources of heat or ignition. Keep container closed all the time. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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