ALS Production Lubricant 512

Submersible Pump Performance Treatment

American Well Technology's ALS Production Lubricant 512 is a proprietary, cationic penetrant and lubricant carrying extreme film strength designed to solve the fast failure rates and operational problems associated with submersible pumps. Upon injection, the production lubricant immediately bonds to metal surfaces in a thin film lubricant barrier protecting against any mechanical, mineral, or hydrocarbon solids deposition on metal surfaces. The product improves pump efficiency, and performance, and reduces motor torque, energy consumption, fluid friction, iron sulfide, and flowline pressure while fluidizing paraffin and asphaltenes.

About ALS Production Lubricant 512

- **Production Lubricant to Reduce Friction, Torque, & Drag**
- **Blended for the specific movements and demands of Submersible Pumps**
- **Product Formulation & Method Patent by American Well Technology**
- **Cationic penetrant/lubricant is attracted to and bonds to metal surfaces**
- **Forms a powerful lubricant film barrier against solids deposition.**
- **Formulation Blended in West Texas**
- **Water out product, no chemical fingerprint in the oil phase**
- **Reduces Iron PPM in oil**
- **Fluidizes hydrocarbon solids**
- **Follow on benefits downstream**
- **Compatible with all other production chemicals**
- **Non-reactive & safe for use**
- **Product has been approved by third-party chemical companies prior to field trials by**
- **ConocoPhillips, SM Energy, OXY, XTO, CRC, Chevron & more**

Submersible Pump Benefits

- Adhesive thin film lubricant barrier coating all metal surfaces
- Reduces friction between metal contact points
- Reduces fluid friction and drag
- Reduces average and peak motor torque
- Reduces pump motor energy consumption
- Lubricant film bonds to tubulars to optimize flow rates
- Increases pump efficiency
- Reduces flowline pressure
- Partially encapsulates sand reducing damage to surfaces
- Conditions and lubricates elastomer seals
- Increased production volume
- Extends pump lifespan & average mean-to-failure intervals
- Delivers added protection in early stage, post frac pumps exposed to the harsh fluids and abrasives.

Additional Benefits

Fluidizes paraffin and asphaltene hydrocarbons

Prevents future solids deposition on metal surfaces

Reduction in IRON PPM in oil

Reduced consumption of other redundant chemical treatments