FS Uni-Drive Synthetic TO-4

From dusty quarries to muddy construction sites, stresses and strains of extreme environments put heavy duty machinery to the test. Heavy loads put pressures and stresses on moving parts - especially gears and drives. Minimizing costly, unproductive downtime is a top priority.

It’s under these conditions that the knowledge and expertise in advance friction and wear fluid technology that goes into FS Uni-Drive TO-4 fluid pays dividends.

FS Uni-Drive Synthetic TO-4 Fluid Features:

- Outstanding anti-wear, extreme pressure and load carrying performance extends transmission life
- Resistance to deposit and varnish formation provides for longer seal life and potential extended drains
- Exceptional friction control provides ideal clutch-friction retention and slippage control for improved brake performance (anti-chatter), reliability, fuel economy, and lower operating costs.
- Improved low temperature pumpability makes for easier, smoother shifting and better lubrication
- Enhanced corrosion protection of copper and its alloys extends the life of synchronizers
- Meets OEM 10.0% KRL Shear Stability Specification

FS Energy – The people to take you further.

Your local FS energy specialist is uniquely qualified with the knowledge and expertise to help improve profits, cut downtime and reduce maintenance expenses. Armed with fuels and lubricating fluids that incorporate state-of-the-art technology for today’s modern on or off-road equipment, you can count on the energy experts at FS to help you go further.

FS Synthetic Uni-drive Multi-viscosity TO-4 Fluid

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The lubricants you need to go further.

Superior Wear Protection and Load Carrying Capability

FS Uni-Drive Synthetic Multi-Viscosity TO-4 Fluid is specifically formulated to minimize wear, prolong gear life and provide protection against heavy loading. Optimized friction performance makes powerful machines run smoother, more precise and more certain for the operators. The result is a significant reduction of wear on the clutch plates, less downtime and lower overall costs.

Optimum friction performance also brings benefits to the transmission and brakes. Smoother and more precise clutch control and shudder-free wet braking provides the operator with greater confidence.

Friction plates from extended friction testing. FS Uni-Drive TO-4 shows greatly reduced wear compared to competitor products.

Outstanding Yellow Metal Protection

Yellow metals can be found in hydraulic systems, thrust washers, sintered bronze friction plates and oil cooling systems. The yellow metal protection in FS Uni-Drive Synthetic Multi-Viscosity TO-4 Fluid greatly improves corrosion performance, providing protection for copper even in the most severe operating environments. This helps maintain optimum operating performance and extends component life.

Superior Anti-corrosion Performance

Moving parts of machines are subjected to relentless wear and tear. FS Uni-Drive Synthetic Multi-Viscosity TO-4 Fluid has been specifically developed to provide excellent corrosion protection performance. It reduces corrosion of parts in the vane and piston pumps, steering and hoist, and also protects pressure flow and directional valves against varnish and deposits.

Copper corrosion test under extended conditions.

Superior friction performance in both fresh and aged oil.

Industry Leading Friction Performance

The optimized frictional properties of FS Uni-Drive Synthetic Multi-Viscosity TO-4 Fluid deliver outstanding performance while operating under load and at speed. The improved friction durability formulation prolongs fluid life up to twice as long as leading OEM requirements. It retains optimal operation for the full life of the fluid, minimizing wear and considerably prolonging the life of parts.

Superior wear protection as demonstrated by FZG testing.