

# Neglected Equipment: Hydraulic Systems



Certain hydraulic systems, including those installed in log splitters, skid steers and small tractors, are often operated seasonally or intermittently, then stored for extended periods. Although checking and changing hydraulic oil is sometimes an afterthought, fluid maintenance is important to ensure optimum protection and performance and maximum equipment life.

AMSOIL synthetic hydraulic oils can provide significant benefits and cost savings over conventional hydraulic oils.

## Reduced Heat

The synthetic construction of AMSOIL synthetic hydraulic oils can reduce heat in hydraulic systems, leading to better viscosity retention; less varnish build-up, oxidation and component wear (including hoses); longer seal life; and better overall system performance.

## Cold-Weather Performance

Mobile hydraulic equipment often sits in the elements while on a job site, causing many conventional hydraulic oils to thicken in the cold and lead to equipment damage such as excessive pump wear due to cavitation, blown hoses, broken shafts and extended warm-up times that waste fuel. AMSOIL synthetic hydraulic oils are formulated for better cold-temperature characteristics than petroleum oils, helping reduce or eliminate many of these issues.

## All-Season Functionality

To eliminate some of the problems associated with temperature changes, many mobile hydraulic equipment owners switch oil viscosities with the seasons. AMSOIL synthetic hydraulic oils are high-viscosity-index formulations that can eliminate the need for seasonal changes. It's very possible to run an ISO 32 or ISO 46 oil successfully year-round in all but the most extreme cold conditions.

## Hose Life Preservation

Cold and heat wreak havoc on hydraulic system hoses and seals. Cold, thick fluid can cause pressure spikes and extremely hot fluid breaks down hoses and seals over time, leading to leaks and wasted hydraulic fluid. The superior cooling and flow properties of AMSOIL synthetic hydraulic oils help preserve hose integrity.

## AMSOIL Synthetic Anti-Wear Hydraulic Oils

AMSOIL Synthetic Anti-Wear Hydraulic Oils effectively inhibit oxidation to help prevent acid formation and viscosity increase, resist carbon and varnish deposits and inhibit rust and foam (providing smooth hydraulic operation). They contain an effective zinc-based anti-wear/antioxidant additive that controls wear in high-speed, high-pressure vane and gear pumps while meeting the lubrication requirements of axial piston pumps with bronze-on-steel metallurgy.

## AMSOIL Biodegradable Hydraulic Oil

AMSOIL Biodegradable Hydraulic Oil (BHO) is a premium-performance hydraulic oil that exhibits high biodegradability and low aquatic toxicity, along with superior oxidative stability, excellent low-temperature performance and outstanding results in laboratory and extended-duration pump testing. It contains antioxidants that prolong oil life and foam inhibitors that help promote problem-free operation. ■



## BENEFITS

- Excellent cold-temperature properties
- Anti-wear protection
- Recommended for gear, vane and piston pumps
- Contain rust, oxidation and foam inhibitors
- Designed for a wide temperature range
- Hydrolytically stable and readily separate from water