

# Zinc Free Anti-Wear Hydraulic Oils

## Description

**Zinc Free Anti-Wear Hydraulic Oils** are non-zinc products designed to provide extended hydraulic pump life in high pressure conditions. They are formulated with an ashless anti-wear additive package that exceeds the performance requirements of major hydraulic manufacturers.

The zinc-free nature of **Zinc Free Anti-Wear Hydraulic Oils** provides not only performance and reliability advantages, it also demonstrates significant environmental benefits where there is a possibility of process water contamination by the hydraulic fluid.

**Zinc Free Anti-Wear Hydraulic Oils** have been specifically formulated to meet or exceed the requirements of all conventional and high-output industrial and mobile hydraulic systems.



## Features/Benefits

- Excellent Filterability
- Superior Anti-wear Protection
- Exceptional Water Separation
- Excellent Hydrolitic and Thermal Stability
- Resists Foaming in Service
- Superior Rust Protection
- Reduced Effluent Treatment Costs
- Lower Toxicity

### Meets the performance requirements of:

- Denison
- Vickers I-286-S, M-2950-S
- Cincinnati Milacron
- U.S. Steel 126, 127, 136
- General Motors LS-2

## Typical Properties

Properties	Zinc Free 32	Zinc Free 46	Zinc Free 68
Product Number	201	209	216
ISO Grade	32	46	68
API Gravity @ 60°F	30.8	29.7	30.9
Viscosity @ 40°C, cSt	32	46	68.2
Viscosity @ 100°C, cSt	5.4	6.8	8.9
Viscosity @ 104°F, SUS (ref)	150	214	317
Viscosity @ 212°F, SUS (ref)	44	48	55
Viscosity Index, min	95	95	104
Pour Point °F, typ	-20	-15	-15
Color, ASTM	1.5	1.5	1.5
Cincinnati Milacron	P-68	P-70	P-69
DIN 51524 Part 2	HLP 32	HLP 46	HLP 68