ECOPOWER® ZINC-FREE ANTI-WEAR HYDRAULIC OIL

ECOPOWER® Zinc-Free Anti-Wear Hydraulic Oil is the ideal solution for industrial and mobile hydraulic systems, especially where metal concentrations are a concern. Containing anti-wear and rust inhibiting additives, it remains stable when exposed to moisture and extreme temperatures. Our anti-wear additive package provides excellent wear protection for hydraulic pumps and motors, and to protect hydraulic system components against rust and corrosion. It has excellent oxidation resistance and thermal stability at high temperatures to minimize deposit formation and provide long service life. It also has excellent low-temperature properties for cold start-ups.

Features and Benefits

- Zinc-Free formulation
- Excellent wear protection for hydraulic pumps and motors
- Excellent oxidation resistance
- Protects against rust and corrosion
- Good foam resistance
- Suitable for year-round use

Applications

Our Zinc-free 46 meets requirements of the major pump builders, including Cincinnati Milacron, Denison, Vickers, Eaton/Vickers, and others. Meets Fives P-70, Denison HF-0, HF-1, HF-2, Vickers 35VQ25, Eaton/Vickers M-2950-S, I-286-S, Ford M6C32, Chrysler, General Motors LS-2, DIN 51524-2, and US Steel 136 specifications for stability and durability.

Applications include off-road mobile construction and forestry equipment, such as backhoes, bulldozers, crawlers, excavators, skid-steer loaders and motor graders, where the manufacturer recommends a zinc-free hydraulic oil.

Eco-Friendly

Since **ECOPOWER®** is made from recycled and re-refined used motor oil, it satisfies recent Federal directives for government agencies to use recycled/recovered materials.

Kleen® PERFORMANCE PRODUCTS

ECO POWER ECO-FRIENDLY MOTOR OIL

ECOPOWER® ZINC-FREE ANTI-WEAR HYDRAULIC OIL

TYPICAL PROPERTIES			
ECOPOWER®	**32**	**46**	**68**
Color	L 1.0	L 1.5	L 2.5
Specific Gravity 15.6ºC (60ºF)	0.858	0.862	0.868
Kinematic Viscosity cSt @ 40ºC cSt @ 100ºC	 31.9 5.6	 44.6 6.9	 64.6 8.9
Viscosity Index	115	112	111
Flash Point, ºC	228	240	246
Pour Point, ºC	-33	-30	-30
Zinc, µg/g	< 2	< 2	< 2
Demusibility D1401	Pass	Pass	Pass
Oxidation Stability D943, hrs	3000	3000	2500
Rust Characteristics D665, A & B	Pass	Pass	Pass
Copper Corrosion	1A	1A	1A

Note: Values shown above are representative of current production and may vary within modest ranges

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