



## Hydraulic Plus Oils

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Hydraulic Plus Oils are formulated with severely hydro-processed Group II base oils combined with a new low-zinc universal anti-wear hydraulic oil additive. It provides premium anti-wear, rust, and oxidation inhibited oil. This additive system is balanced with high quality base oils to ensure that the final product provides the best combination of anti-wear, demulsibility, filterability, rust protection, oxidation resistance, and foam resistance properties. The Group II base oils provide excellent oxidative and thermal stability, as well as enhanced dispersancy. Industrial Hydraulic Plus is excellent for high heat applications.

### **Features/Benefits:**

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- Maximum efficiency of hydraulic systems
- Inhibited against wear, rust, corrosion, sludge, and foaming tendencies
- High viscosity index to minimize oil viscosity change with temperature
- Oxidation stability superior to most competitive products
- Excellent water separation
- Enhanced thermal stability

### **Applications:**

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- Systems having vane or axial piston pumps
- Recommended for micro-filtration systems
- General hydraulic oil in industrial plants
- Mobile equipment requiring premium anti-wear hydraulic oil
- Automated machine tools
- High pressure systems
- High output systems

Additional Information on Reverse



## Hydraulic Plus Oils

### Application/Specifications:

Hydraulic Plus Oils Meet or Exceed the performance requirements of:

- Denison HF-O, HF-1, HF-2
- Racine Variable volume vane pumps
- Jeffrey No. 87
- AFNOR E 48-603
- Ford M-6C32
- Commercial Hydraulics
- Vickers M-2950-S (Mobile), I-286-S (Industrial)
- Cincinnati Machine P-68
- Din 51524 Part 2
- U.S. Steel 136 & 127
- Lee-Norse 100-1
- B.F. Goodrich 0152

Typical Physical Specifications:		
ISO Grade	46	68
API Gravity @ 60° F	31	30
Viscosity Index	105	105
Viscosity:		
cSt @ 100° C	6.9	8.9
cSt @ 40° C	46	68
SUS @ 210° F	48	55
SUS @ 100° F	215	315
Pour Point, °C (°F)	-32 (-26)	-30 (-22)
Flash Point, °C (°F)	215 (420)	222 (430)
Color, ASTM	1	L1.5
FZG Gear Test, stage	12	12
ASTM Rust Test, A & B	Pass	Pass
Foam Test	Pass	Pass
Turbine Oil Stability Test, hrs.	6000+	6000+