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Product Information

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## UNIVERSAL PREMIUM HYDRAULIC OIL

### Product Description

**Universal Premium Hydraulic Oil** is a zinc containing, anti-wear hydraulic oil, formulated with Group II base stock to provide longer fluid life. The product offers excellent oxidation stability, provides protection against wear, rust, corrosion, and foaming, thermal breakdown and exhibits excellent water separation and filterability properties.

### Applications

**Universal Premium Hydraulic Oil** meets the requirements of both high and low-pressure industrial and mobile hydraulic systems.

**Universal Premium Hydraulic Oil** meets or exceeds the requirements for industrial and mobile equipment hydraulic systems, which call for:

- Vickers I-286-S, M-2950-S
- Racine variable volume vane pumps
- DIN 51524, Part 2
- Ford M-6C32
- B.F. Goodrich 0152
- Denison HF-1, HF-2, FH-0
- Jeffrey No. 87
- Cincinnati Milacron P-68, P-69 P-70
- Lee-Norse 100-1
- U.S. Steel 136, 127
- Commercial Hydraulics \*\*
- AFNOR E 48-603
- General Motors LH-04-1, LH-06-1, LH-15-1

\*\* Except for PM-500 series silver containing pumps

### Benefits

- Group II Base Stock
- High Viscosity Index
- Oxidation Stability: 5000 + hours, ASTM D 943
- Anti-foam: Good air release properties.
- Anti-Wear: Provides excellent wear protection.
- Anti-Rust: Protects against rust and corrosion on steel and copper.
- Low Temperature Fluidity: Extends the useful temperature operating range.
- Water Separation (Demulsibility): Separates easily from water to minimize rust, filter blockage, and oil fluidity changes.

Refer to Universal Oil's Material Safety Data Sheet (MSDS) 16 19 21 for additional information.

## UNIVERSAL PREMIUM HYDRAULIC OIL

Specifications		Typical Results			
Typical Property	ASTM Test Method	22	32	46	68
ISO Viscosity Grade		22	32	46	68
Gravity, Deg. API	D 287	33.7	32.8	32.5	32.0
Pounds Per Gallon		7.13	7.17	7.18	7.21
Viscosity					
@ 40° C, cSt	D 445	21.8	32.0	46.0	64.0
@ 100° C, cSt	D 445	4.2	5.3	6.4	8.9
@ 100° F, SUS	D 2161	114	156	219	325
@ 210° F, SUS	D 2161	40.4	43	47	54
Viscosity Index, Min.	D 2270	97	97	98	100
Pour Point, Degrees F	D 97	-35°	-35°	-29°	-29°
Flash Point, Degrees F Min.	D 92	400°	415°	425°	465°
Oxidation Stability	D 943	>5000	>5000	>5000	>5000
Demulsibility	D 1401				
ML: Oil: Water: Cuff		40-40-0	40-40-0	40-40-0	40-40-0
(Min)		(15)	(15)	(15)	(15)
UO Item		16 19 21	16 19 22	16 19 23	16 19 24
MSDS Number		16 19 21	16 19 21	16 19 21	16 19 21

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