

# UNITED OIL COMPANY

*Quality Industrial Lubricants Since 1906*

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## UNITED AW 46 HYDRAULIC OIL

### Product Data Sheet

#### Product Description:

**United AW 46 Hydraulic Oil** is a high-quality anti-wear hydraulic oil developed for use in a wide variety of industrial and mobile hydraulic system applications. It meets the performance requirements of all major hydraulic pump manufacturers, and is recommended for use in all types of high-pressure, high-speed hydraulic pumps. It has excellent water-separating properties to minimize the formation of emulsions, and is resistant to excessive foam buildup that can cause poor or sluggish hydraulic system response.

#### Applications:

- Hydraulic systems on industrial, mobile and marine equipment
- Automated machine tools
- Elevators, hoists, presses and floor jacks
- Marine cargo winches and steering systems
- Mobile construction equipment
- Air tools and other pneumatic equipment lubricated through airline lubricators
- Chain drives
- Lightly to moderately loaded enclosed industrial gear driveshaft's that do not require a compounded or extreme-pressure (EP) gear oil

#### Outstanding Qualities:

**United AW 46 Hydraulic Oil** meets the requirements of the following industry and OEM specifications:

1. Bosch Rexroth RE 90220, Type HLP
2. DIN 51524 Part 2, Antiwear Hydraulic Oils, Type HLP
3. Eaton-Vickers I-286-S, M-2950-S, 35VQ25A anti-wear performance (brochure 03-401-2010 Rev 1)
4. Fives Cincinnati P-68 (ISO VG 32), P-70 (ISO VG 46), P-69 (ISO VG 68) (approved)
5. Parker Hannifin
6. ISO 11158:1997, Family H (Hydraulic Systems), Type HM

Technical Information:

ISO Viscosity Grade	ISO 3448	46
Kinematic Viscosity	ASTM D 445	
	at 40°C mm <sup>2</sup> /s	46
	at 100°C mm <sup>2</sup> /s	6.7
Viscosity Index	ISO 2909	97
Density @ 15 ° C kg/m <sup>3</sup>	ISO12185	873
Flash Point COC	ISO2592	230° C
Pour Point	ISO3016	-21° C