

# STANDARD HYDRAULIC OIL 46

## TECHNICAL DATA SHEET

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978



### A high performance anti-wear hydraulic oil.

#### DESCRIPTION

STANDARD HYDRAULIC OIL 46 contains a premium additive package and carefully selected group II base oils, specifically designed to meet or exceed the performance requirements of all major hydraulic equipment manufacturers and industry organisation specifications. It is designed for the requirements of today's modern hydraulic high pressure pumps and systems. The product has the capability to provide performance reserve, leading to long oil and filter life and ensuring unsurpassed equipment protection.

#### ADVANTAGES / CUSTOMER BENEFITS

- Excellent oxidation stability
- Capable to extend the oil drain interval
- Good sludge and particulate control
- Improved filterability and consequently less downtime
- Improved protection of critical components with tight tolerances
- Superior wear protection for maximum equipment life
- Greater energy saving potential
- Excellent hydrolytic stability for improved protection
- Good anti-foam and air release properties.
- Good demulsibility ensuring rapid water separation.

In addition to meeting all major global hydraulic performance specifications, this product reduces wear, valve sticking, metal transfer and filterability issues; handles more demanding duty cycles; and resists oil degradation at higher operating temperatures.

#### APPROVALS / PERFORMANCE STANDARDS / SPECIFICATIONS

Denison HF-0, HF-1 and HF-2  
Cincinnati Machine P-68, P-70, P-69  
Eaton Brochure 694 for 35VQ25A (formerly M-2950-S and I-286-S)  
DIN 51524 Part 2 (HLP) & Part 3 (HVLP)  
GM LS2  
ISO 11158 Categories HM and HV  
ASTM D 6158 Type HM and HV  
AFNOR NF E 48-603 HM and HV

ISO 6743/4 HM  
ISO 11158 HM  
DIN 51524 P2 HLP

#### ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Safety Data Sheet (SDS). Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. Ensure appropriate personal safety equipment is used when handling the product.

This product has a shelf life of 36 months when stored in a dry environment at ambient temperatures (10-30°C).

#### TYPICAL TECHNICAL CHARACTERISTICS

DESCRIPTION	METHOD	UNITS	RESULT
ISO/SAE Grade			46
Viscosity @ 40°C	ASTM D 2983	cSt	46
Viscosity @ 100°C	ASTM D 2983	cSt	7
Viscosity Index	ASTM D2270-77		109
Pour Point °C	ASTM D97	°C	-36.0
Flash Point °C	ASTM D93	°C	248
Density @ 20°C	ASTM D792	g/ml	0.86
Appearance	Visual		Clear & Bright
Colour	Visual		Pale Yellow

#### PACKAGING

5L / 20L / 210L / 1000L

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