



**Product Data Sheet:**

# HYDRAULIC OIL HM 46

## Product Description:

**HYDRAULIC OIL HM 46** is a high performance anti wear hydraulic oil developed for use in high pressure hydraulic systems operating under moderate to severe conditions in mobile and industrial services.

**HYDRAULIC OIL HM 46** oil is formulated with carefully selected base stocks fortified with additives to provide excellent protection towards wear, rust and oxidation.

**HYDRAULIC OIL HM 46** is formulated with field proven thermally stable, zinc based anti wear additives.

**HYDRAULIC OIL HM 46** provides excellent water demulsibility as well as de-aeration.

**HYDRAULIC OIL HM 46** effectively protects against rust and oxidation.

## Specifications:

**Exceeds:** ISO 11158 HM, DIN 51524/2 HLP, AFNOR NFE 48-603, HM Sauer Danfoss 520L0463, Eaton(Vickers)M-2950 S/M 2952-S/I-286-S, Bosch Rexroth 07 075 vane, piston & gear pumps, Denison-TP 30560: HF-1 Cincinnati Machine: P-70

Property:	Test Method:	Typical Values:
ISO Viscosity Grade	ISO 3448	46
Density @ 15°C	ASTM D4052	877 kg/m <sup>3</sup>
Kinematic Viscosity @ 40°C	ASTM D7042	41.4-50.6 mm <sup>2</sup> /s
Kinematic Viscosity @ 100°C	ASTM D7042	6.8 mm <sup>2</sup> /s
Viscosity Index	ASTM D2270	>98
Flash Point (COC)	ASTM D92	>205°C
Pour Point	ASTM D97	-36°C
FZG Fail Load Stage, minimum	DIN 51354-2	11
Air Release Value @ 50°C	DIN 51381	<5 minutes
Demulsibility @ 54°C	DIN 51599	<30 minutes

Product nr: 4354

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