

## HYDRA POWER ZF 46

### Zinc Free Hydraulic Oil

**HYDRA POWER ZF 46** is a high-performance zinc-free ashless anti-wear hydraulic oil developed to provide excellent performance in hydraulic systems, power transmission and general machine lubrication operating under moderate to severe conditions.

**HYDRA POWER ZF 46** is formulated with high quality virgin mineral base stocks in combination with a special additive technology to achieve the following performance:

- Excellent thermo-oxidative stability.
- Exceptional anti-wear property results in longer pump and component life.
- Superior demulsibility helps in faster separation of water from oil and resists formation of emulsions.
- Advanced ashless additive technology reduces environmental impact in case of accidental spillage.
- Special rust & corrosion inhibitors protect multi-metallurgy components even in presence of moisture.
- Rapid air release property due to non-silicone anti-foam technology to minimizes chances of pump cavitations leading to trouble free operations.
- Compatible with multi-metals and sealing materials commonly used in hydraulic systems.
- Designed for older hydraulic pumps containing silver or silver-plated parts.

**HYDRA POWER ZF 46** meets the following performance criteria:

DIN 51524/2 HLP  
Vickers I-286-S

AFNOR NFE 48-603  
Denison HF-1

ISO 11158 HM  
Cincinnati P-70

Vickers M-2950

### Typical Analysis

Properties	Unit	Method	Typical Value
ISO VG Grade		ISO 3448	46
Density @15 °C	kg/m <sup>3</sup>	ASTM D4052	880.3
Kin. Viscosity @40 °C	mm <sup>2</sup> /s	ASTM D7042	46.9
Kin. Viscosity @100 °C	mm <sup>2</sup> /s	ASTM D7042	6.9
Viscosity Index		ASTM D2270	101
Flash Point COC, min	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-27
FZG A/8,3 90 °C		DIN 51354-2	12
Demulsibility @54 °C	Minutes	DIN 51599	30
Date Issued: 15-5-2025		Supersedes: 14-6-2021	Revision Nr.: 02

