



# Technical Data Sheet

## HLP 46 (product code 1025)

OptimOil HLP 46 is a hydraulic oil produced in a resource-saving way and the best choice for a sustainable future. Thanks to the virtually waste-free base oil production process, which includes a patented technology and re-uses natural resources, this product contributes to the long-term protection of the environment, health, natural resources and the climate. The base oil used in the corresponding proportion has been proven to save up to 1.530 kg/t CO<sub>2</sub> eq compared to conventionally produced base oils. This product is AVleCO<sub>2</sub> qualified.

OptimOil HLP 46 formulated with paraffin-based base oils and state-of-the-art additive technology. Active components ensure optimum lubrication performance and long-lasting protection against ageing. The product can be cleaned in the process by finest filtration without losing active components and has an above-average viscosity index compared to conventional HLP hydraulic oils and is also ideally suited for use in metalworking machines.

### APPLICATION

optimum lubrication performance  
long-lasting protection against ageing  
above-average viscosity index

### CHARACTERISTICS / APPLICATION BENEFITS

Stationary and mobile application in hydraulic systems  
Use also in pump systems and presses  
Use in metalworking machines

### SPECIFICATIONS

DIN 51524-2

### RECOMMENDATIONS

ISO 11158  
ASTM D6158  
JCMAS P041 HK  
AIST 126 + 127  
SAE MS 1004  
GM LS 2

## TYPICAL CHARACTERISTICS

(The given data are typical data.)

Parameter	Method	Unit	
Density 15 °C	DIN EN ISO 12185	g/cm <sup>3</sup>	0,864
Kin. Viscosity @ 40 °C	ASTM D7279	mm <sup>2</sup> /s	45,0
Kin. Viscosity @ 100 °C	ASTM D7279	mm <sup>2</sup> /s	7,0
Viscosity Index	ASTM D2270	116	
Flash point COC	DIN ISO 2592	°C	240
Pour point	ASTM D7346	°C	-30
FZG-Test A8,3/90	DIN ISO 14635-1	SKS: 12	
CO <sub>2</sub> eq*	DIN ISO 14040/44	kg/kg	0,139