



megol Hydraulik/Getriebeoel HLP/CLP 46 AF

megol hydraulic/transmission oil HLP/CLP 46 AF can be used as pressure fluid in hydraulic systems as well as in industrial gearboxes, roller and plain bearings that are exposed to high loads, and in particular also for large systems with circulation lubrication systems. It contains active ingredients to increase ageing resistance, anti-corrosive properties and EP properties. As a result of these additives it satisfies all requirements and is primarily used in hydraulic systems in which high thermal stresses occur, corrosion can form due to water and whose pumps or hydraulic motors require oil types with wear protection agents for mixed friction as a result of the operating conditions. Since it is free of ashing additives, it does not form any adhesive deposits if overheated.

Approvals / Specifications:

Hydraulic Oil DIN 51524 – HLP 46

Lubricating Oil DIN 51517 – CLP 46

Characteristic data

Approx. values

ISO viscosity class	DIN 51519		VG 46
Viscosity at 0°C	DIN 51562	mm ² /s	570
Viscosity at 40°C	DIN 51562	mm ² /s	46.5
Viscosity at 100°C	DIN 51562	mm ² /s	6.85
Viscosity index	DIN ISO 2909		102
Density at 15°C	DIN 51757	kg/m ³	880
Flash point	DIN ISO 2592	°C	215
Pour point	DIN ISO 3016	°C	-30
Air separation capacity / 50°C	DIN 51381	min.	5
De-emulsifying capacity / 54°C	DIN 51599	min.	10
Ash, oxide	DIN EN 7	g/100 g	0.01
Ash, sulphate	DIN 51575	g/100 g	0.02
Coke residue using the Conradson method with ash	DIN 51551	g/100 g	0.12
Content of asphaltenes	DIN 51595	g/100 g	m.n.n. *)
Content of undissolved substances	DIN 51592	g/100 g	m.n.n. *)
Water content	DIN ISO 3733	g/100 g	m.n.n. *)
Neutralisation index, acid	DIN 51558 Part 1	mg KOH/g	0.2
Saponification index	DIN 51559	mg KOH/g	0.35
Corrosive effect on steel	DIN 51585	degree of corrosion	0-B
Corrosive effect on copper	DIN 51759	degree of corrosion	1 - 125 A3
Ageing properties		mg KOH/g	< 2
Neutralisation index after 1000 h	DIN 51587		
Timken test – wear under a load of 30 lbs	SEB 181 302	mg	4

Foaming properties

Properties against

sealing material

SRE-NBR 1 pursuant to

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Shanghai Jichuan Trading

DIN 53538 Part 1 after
7 days at 100°C

Motor vehicle brief gear test
Standard test A/8.3/90

DIN 51566

S1B-60/0
S2B-40/0
S3B-60/0

Brugger test

Water hazard class

*) m.n.n. = Quantity not detectable

Change in volume
Change in hardness

DIN 51354

Failure load level
Unit weight change

%-by-vol.

Shore

mg/kWh

N/mm²

+3.5

-2.0

> 12

< 0.27

> 50

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