

# WACO HM (HLP 22)

HLP Hydraulic Oil according DIN 51524, Part 2

## Description:

**WACO HM (HLP 22)** is optimum alloyed and is having a high performance level as well as a broad field of application within the whole industry. It especially distinguish with good viscosity-temperature behaviour, high ageing stability and reliable corrosion protection. Effective additives provides an excellent wear protection under extreme loads, too (FZG-Test A/8,3/90 12th damage loading step). The behaviour against sealing materials is neutral.

## Properties

- High pressure susceptibility
- Excellent wear protection
- High air and water separating property
- Very good viscosity-temperature behaviour
- High ageing stability
- Neutral towards sealing materials
- Reliable protection against corrosion

## Effects

- High operation safety of hydraulic equipment
- Favourable operating properties
- High performance level

## Suitable for/ we recommend this product for

DIN 51524/2	ISO VG 22 / HLP 22
ISO 11158	HM
MIL	H 24 459
AFNOR	NF E 48-603 (HM)
ASTM	D6158
SAE	MS 1004
We recommend this product for:	
AIST	127, 136
ASLE	70-1/70-2/70-3
BOSCH	Rexroth
CETOP	RP 91 H (HM)
CINCINNATI MILACRON	P-68, 69, 70
DAVID BROWN	ET 19, ET 33
DENISON	HF-0, HF-2
EATON VICKERS	M 2950-S / I-286-S3
FZG-Test	A8, 3/90 12th damage loading step
GM	LS 2
HOESCH	HWN 2333
JCMAS	P041 HK
SIS	SS 155434
US STEEL	126/127
VDMA	24318

## Utilization

- Hydraulic equipment according DIN 51524
- for example: mobil hydraulics, pressing and forging plants, splash-pour-machines, a.o.

## Disposal:

- **WACO HM (HLP 22)** is assigned to category 2 of used oils and thus is free for disposal.

## Miscibility:

- **WACO HM (HLP 22)** of HLP range is well-tolerated with comparable lubrications and can be mixed. However, it is recommended to take only **WACO HM (HLP 22)** of HLP range when refilling.

Data are subject to change.

Attention: Service instructions should be observed!

DV/HY/-  
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**WACO HM (HLP 22)**

Article No.	Packaging unit	
1203 302	Can	1 L
1203 305	Can	20 L
1203 306	Drum	60 L
1203 308	Drum	200 L
1243 309	PE-Container	1000 L

## Typical characteristics:

Specific weight at 15°C	kg/m <sup>3</sup>	855
Viscosity at 40°C	mm <sup>2</sup> /s	22,4
Viscosity at 100°C	mm <sup>2</sup> /s	4,5
Viscosity index		111
Flash point COC	°C	210
Pourpoint	°C	-30
TAN	mgKOH/g	-

