

## HYDROL L-HM/HLP 46

**Quality class:** Quality class according to ISO 11158 – HM  
**Viscosity grad:** ISO VG: 46

### GENERAL FEATURES:

HYDROL L-HM/HLP hydraulic oils for hydrostatic systems are manufactured basing on high quality mineral base oils and a set of enriching additives improving antiwear, anticorrosive and antioxidative properties.

It provides:

- extended lifetime,
- reduces wear of hydraulic pump elements,

### APPLICATION:

Hydrol® L-HM/HLP hydraulic oils are intended mainly for heavy-duty power transferring systems and for hydraulic driving and control systems i.e. hydraulic gears, control mechanisms and other alike devices operating in hard conditions or in increased temperature or humidity.

### STANDARDS, APPROVALS. SPECIFICATION:

Bosch Rexroth RE 90220-01 - Hydrol® L-HM/HLP 32, 46, 68  
MAG/ Cincinnati Machine P-68 -Hydrol® L-HM/HLP 32  
MAG/ Cincinnati Machine P-70- Hydrol® L-HM/HLP 46  
MAG/ Cincinnati Machine P-69 - Hydrol® L-HM/HLP 68  
Denison Hydraulics HF2/HF1/HF0- Hydrol® L-HM/HLP 32, 46, 68  
ZETOR (Proxima, Proxima Plus, Proxima Power, Forterra) - Hydrol® L-HM/HLP 32, 46  
FAMUR - Hydrol® L-HM/HLP 68  
Bumech - Hydrol® L-HM/HLP 46, 68  
PONAR-SILESIA  
DIN 51524 part 2,

ISO 6743-4

Oils with viscosity grade of VG 32, 46, 68, 100, 150 have been approved for application in mining and are granted a certificate issued by the Central Mining Institute allowing to mark the product with the security sign.

ATLAS COPCO - Hydrol® L-HM/HLP 46  
FERRIT



## Physical and chemical properties:

PARAMETERS	UNIT	TYPICAL VALUES
Appearance at 20 °C	-	clear, homogeneous
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	44.2
Viscosity index	-	103
Pour point	°C	-30
Flash point (open cup)	°C	227
Resistance to foaming · susceptibility to foaming: foam volume after 5 min. of blowing with air at 25°C, · foam durability: foam volume after 10 min. standing still at 25°C standing still at 25°C	ml	30 0
Corrosion action on copper plates (100°C/3h)	degree of corrosion	1a
Deemulsibility, time to oil/water emulsion separation: - 40 - 43 ml of oil - 37 - 40 ml of water - 0 - 3 ml of emulsion at	min.	25
	°C	54
Ability to release air at 50°C	min.	6

**NOTE:**  
Physicochemical parameters listed in the table are typical values. Real values are stated in quality control certificates attached to each product lot.

