



# BAROS (HLP 46)

HLP-Hydraulic Oil according DIN 51524, Part 2

## Description:

**BAROS (HLP 46)** is optimum alloyed and is having a high performance level as well as a broad field of application within the whole industry. It especially distinguishes with good viscosity-temperature behaviour, high ageing stability and reliable corrosion protection. Effective additives provide 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
- Reliable protection against corrosion
- Neutral towards sealing materials

## 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 46 / HLP 46                |
| ISO 11158                      | HM                                |
| AFNOR                          | NF E 48-603 (HM)                  |
| MIL                            | H 24 459                          |
| 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 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                           |
| SAUER DANFOSS                  | 520L0463                          |
| SEB                            | 181222 (HLP 46)                   |
| SIS                            | SS 155434                         |
| US STEEL                       | 126/127                           |
| VDMA                           | 24318                             |

## Utilization

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

## Disposal:

- **BAROS (HLP 46)** is assigned to category 2 of used oils and thus is free for disposal.

## Miscibility:

- **BAROS (HLP 46)** of HLP range is well-tolerated with comparable lubrications and can be mixed. However, it is recommended to take only **BAROS (HLP 46)** of HLP range when refilling.

Data are subject to change.

Attention: Service instructions should be observed!

KL/HY/-/-  
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**BAROS (HLP 46)**

| Article No. | Packaging unit |        |
|-------------|----------------|--------|
| 303002      | Can            | 1 L    |
| 303004      | Can            | 5 L    |
| 303005      | Pail           | 20 L   |
| 303006      | Drum           | 60 L   |
| 303008      | Drum           | 200 L  |
| 343009      | PE-Container   | 1000 L |

## Typical characteristics:

|                         |                    |     |
|-------------------------|--------------------|-----|
| Specific weight at 15°C | kg/m <sup>3</sup>  | 864 |
| Viscosity at 40°C       | mm <sup>2</sup> /s | 45  |
| Viscosity at 100°C      | mm <sup>2</sup> /s | 7,0 |
| Viscosity index         |                    | 116 |
| Flash point COC         | °C                 | 240 |
| Pourpoint               | °C                 | -30 |
| TAN                     | mgKOH/g            | -   |

