

# Sinova Marine HLP 46

## Hydraulic Oil

### Product description:

Sinova Marine HLP 46 is a premium hydraulic fluid formulated from highly refined mineral oil, enriched with a precisely balanced additive system. Specifically designed to meet the demands of high-pressure, high-output hydraulic systems, it offers enhanced performance, including longer oil life, exceptional wear protection, and superior control of deposits across various processes.

### Application:

- Hydraulic systems are critical to deposit build-up or where sludge and deposits form with conventional products
- Hydraulic systems requiring a high load-carrying capability and anti-wear protection, and when a thin oil film corrosion protection is an asset
- Where small amounts of water are unavoidable
- Systems containing gears and bearings
- Machines employing a wide range of components using various metallurgies

### Features & Benefits:

- Exceptional thermal and oxidation stability
- Superior wear resistance
- Enhanced corrosion protection
- Controlled demulsibility
- Excellent anti-foam properties
- Neutral to seal materials

### Typical Properties

| Property                             | Unit  | Test method | Typical value |
|--------------------------------------|-------|-------------|---------------|
| ISO viscosity grade                  | -     | -           | 46            |
| Density at 15°C                      | g/cm3 | ASTM D 4052 | 0.879         |
| Kinematic Viscosity at 40°C          | mm2/s | ASTM D 445  | 46.00         |
| Kinematic Viscosity at 100°C         | mm2/s | ASTM D 445  | 6.650         |
| Viscosity Index                      | -     | ASTM D 2270 | 94            |
| Flash Point, COC                     | °C    | ASTM D 92   | 230           |
| Pour Point                           | °C    | ASTM D 97   | -24           |
| Water separability                   | -     | -           | -             |
| -time to 3 ml emulsion min           | -     | ASTM D1401  | 15            |
| Oxidation Stability after            | -     | -           | -             |
| 1000h/TAN increase                   | min   | ASTM D3427  | <1.0          |
| Copper Strip Corrosion, 3 h, 100 °C  | -     | ASTM D130   | 1             |
| Rust-Preventing Characteristics, A&B | -     | ASTM D665   | Pass          |

Typical property characteristics are based on current production. Whilst future production will conform to Sinova specifications, variations in these characteristics may occur.

# Sinova Marine HLP 46

## Hydraulic Oil

### Performance claims

- DIN 51524 -2
- ISO 11158 (HM)
- ISO 6743/4 (HM)
- GB 11118.1-2011
- SAE MS 1004
- US STEEL 126/127
- Bosch Rexroth RDE 90235
- Denison HF-0/HF-1/HF-2
- Eaton E-FDGN-TB002-E
- Fives Cincinnati P70
- ASTM D6158 (HM)
- JCMAS P041 HK
- GM LS-2
- SEB 181222

### Health, Safety & Environment:

#### Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website:

[www.sinovagroup.ch](http://www.sinovagroup.ch)

#### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

### Available pack sizes:

- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

### Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

### Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide

# Sinova Marine HLP 46

## Hydraulic Oil

only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.

© 2016-2025 | All rights reserved

The logos and trademarks used herein are properties owned by Sinova Group AG.