Product Data Sheet

**Tomoil™ HLP 46**

Hydraulic oil

**Product description**

Tomoil™ HLP 46 represents a premium hydraulic fluid meticulously formulated with high-quality base oils and an advanced additive package, under the guidance of German technology and engineering. This design serves to deliver improved performance to meet the demands of high-pressure and high-output hydraulic systems, ensuring increased oil life, exceptional wear protection, and superior deposit control throughout the operational processes.

**Application**

**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 | - | - |  |
| Density at 15°C | g/cm3 | ASTM D4052 |  |
| Kinematic Viscosity at 40°C | mm2/s | ASTM D445 |  |
| Kinematic Viscosity at 100°C | mm2/s | ASTM D445 |  |
| Viscosity Index | - | ASTM D2270 |  |
| Flash Point (COC) | °C | ASTM D92 |  |
| Pour Point | °C | ASTM D97 |  |
| Water seperability at 54°C | min | ASTM D1401 |  |
| Air release | min | ASTM D3427 |  |
| FZG Scuffing, A/8.3/90 | Fail Load Stage | DIN 51354-2 |  |
| Foam, Seq I, Tendency / Stability | ml/ml | ASTM D 892 |  |
| Foam, Seq II, Tendency / Stability | ml/ml | ASTM D 892 |  |
| Foam, Seq III, Tendency / Stability | ml/ml | ASTM D 892 |  |
| Copper Strip Corrosion, 3 h, 100 °C | - | ASTM D130 |  |
| Rust-Preventing Characteristics, A&B | - | ASTM D665 |  |

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

**Specifications**

• 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, HV)  
• JCMAS P041 HK  
• GM LS-2

**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.tomoil.de](http://www.tomoil.de)

* **Protect the Environment**

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

**Available pack sizes**

* 1 L Canister plastic
* 4 L Canister plastic
* 5 L Canister plastic
* 7 L Canister plastic
* 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**

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