Product Data Sheet

**Tomoil™ HVLP 46**

Hydraulic oil

**Product description**

Tomoil™ HVLP 46 stands as a high-performance anti-wear hydraulic oil made from premium quality raffinates, all meticulously engineered through German technology and engineering. This formulation aims to provide outstanding protection and performance in most mobile equipment and applications subject to a broader range of ambient or operating temperatures.

**Application**

**Features & Benefits**

• Exceptional thermal and oxidation stability  
• Superior wear resistance  
• Enhanced corrosion protection  
• Excellent anti-foam properties  
• Ultra clean performance

**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 51524-3 (HV)  
• ISO 11158 (HV)  
• Bosch Rexroth RDE 90235  
• Denison HF-0/HF-1/HF-2  
• Eaton E-FDGN-TB002-E  
• Fives Cincinnati P70  
• GB 11118.1-2011 (L-HV)  
• ASTM D6158 (HV)  
• GM LS 2  
• AIST 126, 127  
• SAE MS 1004

**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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