Product Data Sheet

**Tomoil™ HVLP 46 Zn Free**

Hydraulic oil

**Product description**

Tomoil™ HVLP 46 Zn Free represents a superior hydraulic oil meticulously designed to meet the needs of contemporary high-pressure industrial and mobile equipment hydraulic systems. Crafted from high-quality hydro-treated base stocks and specially chosen zinc-free additives through the guidance of German technology and engineering, it ensures exceptional protection due to its excellent anti-wear performance in severe hydraulic applications.

**Application**

**Features & Benefits**

• High oxidation resistance and thermal stability   
• Exceptional anti-wear properties  
• Outstanding oil film strength   
• Excellent demulsibility characteristics  
• Fast air release and low foaming  
• Multi metal compatibility

**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  
• Fives Cincinnati P-70  
• ISO 11158 HV  
• ASTM D6158  
• SAE MS 1004  
• ISO 20763 vane pump test

**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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