Product Data Sheet

**Eurotec™ TO-4 SAE 50**

Powershift Transmission oil

**Product description**

Eurotec™ TO-4 SAE 50 is a premium hydraulic and transmission fluid engineered with cutting-edge German technology to provide superior performance and enhanced durability for contemporary hydraulic systems, transmissions, axles, final drives, and wet brakes on heavy-duty off-road machinery. It has been diligently formulated to meet or exceed the stringent Caterpillar TO-4 specification.

**Application**

**Features & Benefits**

• Well-balanced static and dynamic friction coefficients  
• Exceptional foam control and protection  
• Superior stability in thermal and oxidation  
• Optimized retention of clutch-friction and control over slippage  
• Outstanding stability for hydraulic oil and protection against high-pressure pump wear  
• Remarkable performance in low-temperature fluid flow

**Typical Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Unit** | **Test method** | **Typical value** |
| 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 |  |
| TBN (HclO4) | mg KOH /g | ASTM D2896 |  |
| Flash Point (COC) | °C | ASTM D92 |  |
| Pour Point | °C | ASTM D97 |  |

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

**Performance claims**

• API CF, MT-1  
• CAT TO-4 / TO-4M  
• Allison C4  
• ZF TE-ML-03C/07F  
• Komatsu KES 07.868.1  
• Komatsu Dresser  
• Dana Powershift

**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.euroteclube.com](http://www.euroteclube.com)

* **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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