

Product Data Sheet

Tomoil™ Transmission Fluid TO-4 SAE 50

Powershift transmission fluid

Product description

Tomoil™ Transmission Fluid TO-4 SAE 50 represents a high-quality hydraulic and transmission fluid carefully engineered to deliver outstanding performance and extended durability for contemporary hydraulic systems, transmissions, axles, final drives, and wet brakes used in heavy-duty off-road machinery. It has been thoughtfully formulated to meet or exceed the demanding Caterpillar TO-4 specification.

Application

- Heavy duty transmissions, gear boxes, final drives, and hydraulic systems used in off-highway applications
- Off-highway industries including: mining, construction, quarrying, and agriculture
- Manual, powershift and automatic transmissions where a CAT TO-4 or Allison C-4 fluid is required

Features & Benefits

- Well-balanced static and dynamic friction coefficients
- Exceptional foam control and protection
- Superior thermal and oxidation stability
- 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/cm ³	ASTM D 4052	0.899
Kinematic Viscosity at 100°C	cst	ASTM D 445	19.50
Kinematic Viscosity at 40°C	cst	ASTM D 445	235.1
Viscosity Index	-	ASTM D 2270	95
Flash Point (COC)	°C	ASTM D92	250
Pour Point	°C	ASTM D7346	-21
Brookfield Viscosity at -15°C	cP	ASTM D 2983	90 000
Copper Strip Corrosion	-	ASTM D 130	1a

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

Performance claims

- API CF, MT-1
- CAT TO-4
- Allison C4
- ZF TE-ML-03C
- 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.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 | • 20 L Canister plastic |
| • 4 L Canister plastic | • 30 L Canister plastic |
| • 5 L Canister plastic | • 60 L Drum sheet metal |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 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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