



**Product Data Sheet**

**TO-4 TRANSMISSION FLUID 50**

**Product Description:**

**TO-4 TRANSMISSION FLUID 50** is specifically designed for powershift transmissions, final drives and wet brakes on heavy duty off-highway equipment used in earthmoving, mining logging, road transport and agricultural applications.

**TO-4 TRANSMISSION FLUID 50** is formulated with high refined solvent mineral base stock in combination with a special additive package to reach the following properties.

- Excellent thermal- and oxidation stability.
- Very good dispersancy and detergency.
- High anti-foam, anti-wear and anti-corrosion properties.
- Excellent protection against Bore Polishing.
- Extended drain intervals possible.

**TO-4 TRANSMISSION FLUID 50** exceeds the following performance criteria:

Caterpillar TO-4      Komatsu KES 07.868.1      Allison C4      ZF TE-ML 03

Property	Unit	Test Method	Typical Value
SAE Grade		SAE J3000	50
Density@15°C	kg/m <sup>3</sup>	ASTM D4052	900
Kin. Viscosity @40°C	mm <sup>2</sup> /s	ASTM D7042	210
Kin. Viscosity @100°C	mm <sup>2</sup> /s	ASTM D7042	18.1
Viscosity Index		ASTM D2270	96
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D97	-15
Total Base Number	mgKOH/g	ASTM D2896	7.6

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