



IPT International Petroleum Trading LTD  
Robert-Bosch-Strasse 12  
25335 Elmshorn  
Company registration number: HRB 13315 PI  
Sales tax identification number: DE313987910  
**E-mailaddress:** [contact@tippoil.com](mailto:contact@tippoil.com)  
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product certificate

TIP-OIL TO-4 SAE 60

Description of the

TIPP-OIL TO-4 SAE 60 is a special power transmission oil for the supply of construction machinery and tractors.

TIPP-OIL TO-4 SAE 60 meets the increased requirements of the Caterpillar TO-4 specification and is therefore suitable for use in transmissions, final drives, hydraulics, wet brakes and clutches requiring this specification.

Instructions for use

TIPP-OIL TO-4 SAE 60 ensures maximum wear protection in various transmissions, such as side drives and differentials, optimizes the coefficient of friction behavior in powershift transmissions, wet brakes and clutches and guarantees a maximum service life of the aggregates.

Quality Classification

specifications

API CF API MT-1

TIPP-OIL TO-4 SAE 60 is proven in practice and tested in units with filling regulations:

Allison C4 ZF TE-ML-03C

CAT TO-4M ZF TE-ML-07F

Komatsu KES 07.868.1 (2002)



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#### Features & Benefits

Excellent high pressure properties  
High dispersing and deterging capacity  
Protection against wear, corrosion and foam formation  
High oxidation stability  
A high and stable viscosity index

#### Technical characteristics

Properties Data Unit Test according to  
kinematic viscosity at 40°C 312.6 MM<sup>2</sup>/S DIN ISO 51562-2  
kinematic viscosity at 100°C 23.53 MM<sup>2</sup>/S DIN ISO 51562-2  
viscosity index 95 DIN ISO 2909  
visual appearance YELLOWBROWN  
density at 15°C 903.2 KG/M<sup>3</sup> DIN EN ISO 12185  
Pour Point -12 °C ASTM D 7346

All data given are approximate values and are subject to the usual production fluctuations.

To the best of our knowledge, all data correspond to the current state of knowledge and our development. We reserve the right to make changes. All references to DIN standards are for product description purposes only and do not constitute a guarantee. In the event of any problems, request technical advice.

11.07.2018 11:00:41



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