



Transmission TO-4 Range

A range of heavy duty mineral oil based power transmission, final drive and hydraulic fluids.

Product code: Refer to table below

Product Description:

The Transmission TO-4 range of products have been formulated using high quality base oils and specially approved metallic and non-metallic friction modifying performance additives to meet the exacting requirements of the Caterpillar TO-4 specification. They offer outstanding oxidation stability and improve the frictional and gear wear levels when compared to previous standards.

Benefits:

- Meets the latest Caterpillar TO-4 specification
- Outstanding oxidation stability
- Excellent high temperature stability
- Improved frictional performance
- Passes API CF/CF-2 tests so provides protection if accidentally used in an engine

Application:

The Transmission TO-4 range is suitable for off highway transmissions, drive trains and hydraulic systems. They are recommended for Caterpillar, Case, Komatsu and other off road industrial equipment. They are not recommended as a crankcase lubricant. Please refer to the manufacturer for specific viscosity requirement.

Product Specification:

Caterpillar	TO-4
Allison	C-4 TES 439 (SAE 10W & 30)
API	MT-1
Komatsu	KES 07.868.1
ZF	TE-ML 03C (SAE 10W & 30) TE-ML 07F (SAE 30)

Typical Test Data:

TO-4	10W	30	50
Product code	A012	A014	A016
Specific Gravity @ 15.6°C	0.878	0.888	0.893
Kinematic Viscosity @ 40°C (cSt)	41.47	94.62	216.0
Kinematic Viscosity @ 100°C (cSt)	6.27	11.01	19.08
Viscosity Index	98	101	99
Flash Point COC (°C)	202	210	238
Pour Point (°C)	-31	-30	-29