



TAREX CAT TO-4 10W/30/50

TRANSMISSION AND DRIVE TRAIN OILS

The TAREX CAT TO-4 Series has been specially developed for use in powershift transmissions, final drives, and wet brake systems of heavy-duty construction equipment operating in mining, construction, agriculture, and other field services. Caterpillar TO-4 performance also meets the requirements of Komatsu powershift transmissions, ZF torque converters, and Allison C-4 automatic transmissions.

Product Description:

Powershift transmission fluids are formulated with state-of-the-art additive technology that provides improved deposit control, corrosion protection, and load-carrying capacity for better equipment protection and more reliable operation. The TAREX CAT TO-4 Series features carefully optimized frictional properties that help prevent clutch slippage, enabling smoother and more consistent transmission operation while also improving wet brake performance.

Benefits:

- ❖ Helps prevent micro-pitting formation on gear surfaces, reducing vibration and noise
- ❖ Provides controlled friction characteristics to prevent skidding and ensure smooth operation of transmissions and brakes
- ❖ Protects equipment against wear and corrosion, even in humid conditions
- ❖ Helps prevent sludge and lacquer formation, keeping metal parts clean and supporting reliable operation
- ❖ Provides effective wet brake and transmission performance
- ❖ Compatible with gaskets, seals, and friction materials, helping reduce maintenance time
- ❖ Good low-temperature fluidity for improved start-up performance

Meets the Specifications:

Caterpillar TO-4; Allison C-4; ZF TE-ML 03C, 07F; Komatsu KES 07.868.1

Please check your owner's manual for the manufacturer's recommended oil viscosity grade and API classification and approvals.

Technical Data:

TARMOND	Test Method			
API		GL-4	GL-4	GL-4
SAE Grade		10W	30	50
Density at 15 °C, gr/cm ³	ASTM D 1298	0.87	0.88	0.89
Viscosity at 40 °C, cSt	ASTM D 445	32 - 35.5	92 - 96	190 - 200
Viscosity at 100 °C, cSt	ASTM D 445	5.5 - 6.0	11.0 - 12.2	17.5 - 18.0
Viscosity Index	ASTM D 2270	109	100	100
Flash Point, °C	ASTM D 92	220	230	235
Calcium, % wt.	ASTM 5185	0.34	0.34	0.34
Zinc, % wt.	ASTM 5185	0.11	0.11	0.11
Phosphorous, % wt.	ASTM 5185	0.093	0.093	0.093
TBN, mg KOH/g	ASTM D 2896	9.2	9.2	9.2
Pour Point, °C	ASTM D 97	-41	-40	-36

Above values are the typical values of the products and may vary with each batch.