

Cat[®] TDTO-TMS[™]

Multi-Season Transmission/Drive Train Oil for Cat transmissions, wet brakes, final drives and hydraulic compartments.

Synthetic Blend



Recommended Use

- Cat transmissions, wet brakes and hydraulic compartments that must operate in wide temperature ranges
- Cat machine compartments where TO-4 and TO-4M specification oils are recommended
- Other manufacturers' machines that recommend TO-4 or TO-4M specification oils for their transmissions, final drives and wet brake compartments (See "Typical Characteristics" on page 2 for more information)

For a complete listing of Cat Fluids and compartment recommendations, please see Cat Filter and Fluid Application Guide (PEWJ0074).

Discover the Difference

Cat TDTO-TMS is a proprietary formulation that was specifically developed, tested and approved by Caterpillar to ensure peak performance in your transmission and to meet the same high standards as all Genuine Cat Parts.

Longer Component Life—Reduces wear on transmission gears.

Improved Cold-Weather Performance—Improves performance and efficiency of transmissions in cold weather, especially for machines with electronic controls.

Optimum Wear Life—Ensures long life and excellent performance for gears, bearings and friction disc material.

Fewer Oils, Fewer Changes—Can be used in multiple compartments with extended drain intervals over multiple seasons.

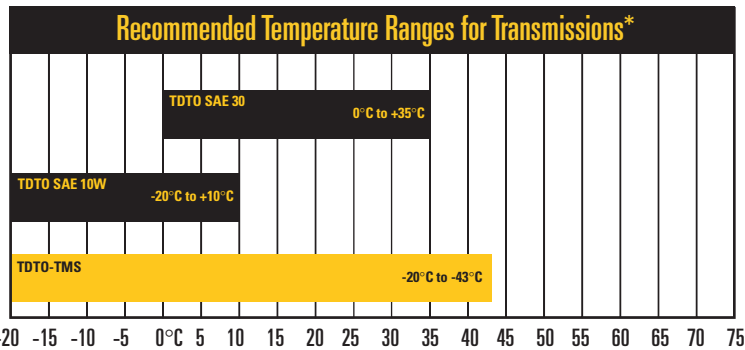
Caterpillar. The difference counts.[™]

Cat Dealers define world-class product support. We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts keeps your entire fleet up and running to maximize your equipment investment.

CATERPILLAR[®]

Cat TDTO-TMS



Reduced Oil Requirements*

Compartment	w/o TDTO-TMS	w/ TDTO-TMS
Engine	DEO™ 15W-40	DEO 15W-40
Transmission	TDTO™ SAE 30	TDTO-TMS
Hydraulics	HYDO™ SAE 10W	TDTO-TMS
Final Drives	TDTO SAE 50	TDTO-TMS
Total Oils Required	4	2

*See Cat Filter & Fluid Application Guide, PEWJ0074

Typical Characteristics*

Viscosity Grade	Multi-Viscosity
Caterpillar Test	TO-4M, TO-4
Allison Test	C-4
Gravity, API (ASTM D287)	29.2
Flash Point, °C (°F) (ASTM D92)	222 (432)
Pour Point, °C (°F) (ASTM D97)	-39 (-38)
Viscosity	
cSt @ 40°C (ASTM D445)	107
cSt @ 100°C (ASTM D445)	14.2
Viscosity Index (ASTM D2270)	134
KRL Shear Stability	10.0%
Calcium, % wt.	.298
Zinc, % wt. (ASTM D4951)	.127
Phosphorus, % wt. (ASTM D4951)	.110
Sulfated Ash, % wt. (ASTM D4951)	1.2
TBN (ASTM D2896)	8.4

*The values shown are typical values and should not be used as quality control parameters to either accept or reject product. Specifications are subject to change without notice.

Health and Safety

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. Read and understand the Material Safety Data Sheet (MSDS) before using this product. For a copy of the MSDS, contact us or visit the web at www.catmsds.com.

S•O•SSM Services for early problem detection

Protect your investment with Cat S•O•S oil analysis, the ultimate detection and diagnostic tool for your equipment. S•O•S helps you detect potential problems before they can lead to major failures and costly, unscheduled downtime.

Cat Filters: Complete protection for your machine

Combine Cat Fluids with Cat Filters for the highest level of contamination control and protection for your machine. We recommend Cat Filters for all Cat machine applications.

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