

CAT[®] TDTO[™]

TRANSMISSION AND DRIVE TRAIN
OIL FOR CAT TRANSMISSIONS,
FINAL DRIVES, AND WET BRAKE
COMPARTMENTS

SAE 10W, SAE 30, SAE 50

RECOMMENDED USE

- Preferred lubricant for Cat[®] power shift transmissions and most final drives and wet brake compartments

DISCOVER THE DIFFERENCE

Cat TDTO[™] is developed, tested, and approved by Caterpillar to meet the same high standards as Genuine Cat Parts.

- Enhanced wear life – helps ensure long life and excellent performance for gears, bearings, and friction disc material.
- System-matched formula – engineered as an integral part of Cat power shift transmissions, most wet brake compartments, and hydrostatic systems.



CAT TDTO

Typical Characteristics¹

SAE Viscosity Grade	10W	30	50
Caterpillar Test	1E Spec ²	1E Spec ²	1E Spec ²
Allison Test	C-4	C-4	C-4
ISO Viscosity Grade	42	100	–
Gravity, API (ASTM D287)	27.9	27.0	24.7
Flash Point, °C (°F) (ASTM D92)	202 (395)	224 (435)	240 (464)
Pour Point, °C (°F) (ASTM D97)	-33 (-27)	-18 (0)	-15 (5)
Viscosity			
CCScP @ -25° C (ASTM D5293)	6840	–	–
CCScSt @ 40° C (ASTM D445)	42.0	100	195
CCScSt @ 100° C (ASTM D445)	6.3	11.2	18.0
Viscosity Index (ASTM D2270)	97	97	96
Calcium, % wt.	.298	.298	.298
Zinc, % wt. (ASTM D4951)	.127	.127	.127
Phosphorus, % wt. (ASTM D4951)	.110	.110	.110
TBN (ASTM D2896)	7.9	7.9	7.9

¹ 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.

² Caterpillar documents formulation components, manufacturing requirements, testing parameters, and performance requirements using internal Caterpillar "1E" specifications. These internal specifications are the same method in which control parameters are set for all other Caterpillar machine components.

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: ADVANCED PROTECTION FOR YOUR ENGINE

Cat filters and fluids are designed together to provide the highest level of contamination control and protection for your machine. We recommend Cat filters for all Cat machine applications.

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 Safety Data Sheet (SDS) before using this product. For a copy of the SDS, visit us on the web at www.catmsds.com.

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 helps to keep your entire fleet up and running and to maximize your equipment investment.

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