



ULTRA TRANS MV TO-4M

Multi-Viscosity Powershift Transmission & Drive Train Fluid

Rev: Feb 12, 2026

DESCRIPTION

Ultra Trans MV TO-4M is a top-tier multi-viscosity transmission fluid built for heavy-duty powershift transmissions. It meets the requirements of Caterpillar TO-4 and TO-4M, Allison C-3, and ZF TE-ML 03 for use in heavy-duty applications such as torque converters, final drives, transmissions, wet-brake systems, and hydraulic systems where a Caterpillar TO-4 or TO-4M specification is required. It is blended from synthetic and mineral base oils with a premium custom-built additive package — engineered for durability and long service life in genuinely severe duty: mining, trucking, city transit, and construction.

Its advantage over monograde SAE 10W, SAE 30, and SAE 50 TO-4 fluids is range. A single multi-viscosity fluid operates across a very wide ambient temperature window without compromising performance at either end — delivering high-temperature stability with the film thickness and strength that loaded gear sets require, alongside low-temperature pumpability that protects components on cold start-up. The additive system is heavily fortified against gear wear, scuffing, rust, corrosion, foaming, and oxidation while maintaining the frictional characteristics that powershift clutches and torque converters depend on for smooth power transfer.

PERFORMANCE HIGHLIGHTS

✓	✓	✓	✓
HEAVY-DUTY POWERSHIFT TRANSMISSIONS	HEAVY-DUTY DRIVE TRAINS & FINAL DRIVES	TORQUE CONVERTERS	HEAVY-DUTY HYDRAULIC SYSTEMS

- **One fluid replaces three** — covers SAE 10W, 30, and 50 TO-4 monogrades, significantly reducing inventory requirements
- **Extremely wide operating range** — removes the need to change fluids seasonally
- **Exceptionally long service life** — extends drain intervals and reduces downtime versus conventional TO-4 fluids
- **Broad equipment compatibility** — suited to a wide range of heavy-duty transmissions in construction equipment and trucks
- **Exceptional oxidation stability** — with strong detergency and anti-foam performance
- **Excellent wear prevention** — protects in high-load, severe-service applications across work environments and temperatures
- **Outstanding shear stability** — maintains an optimal oil film to help prevent gear wear and scuffing

APPLICATIONS

Ultra Trans MV TO-4M is designed for hydraulic systems, powershift transmissions, torque converters, wet-brake systems, and final drives. Use where a TO-4 or TO-4M specification fluid is required in an SAE 10W, SAE 30, or SAE 50 viscosity — this single multi-viscosity fluid replaces all three grades.

NOT to be used as an engine oil.

SPECIFICATIONS

For use in applications requiring the following specifications:

- Caterpillar TO-4M, TO-4
- ZF TE-ML 03
- Allison C-3
- Komatsu KES 07.868.1
- JCB heavy-duty transmissions
- Volvo

CHEMICAL PROPERTIES

Property	Ultra Trans MV TO-4M	Test Method
Specific Gravity @ 60 °F	0.87	ASTM D4052
Kinematic Viscosity @ 40 °C, cSt	114.8	ASTM D445
Kinematic Viscosity @ 100 °C, cSt	14.6	ASTM D445
Viscosity Index	130	ASTM D2270
Flash Point, °C (°F)	233 (451)	ASTM D92
Pour Point, °C (°F)	-39 (-38)	ASTM D97

Small deviations from these results are expected during the manufacturing process and do not affect product performance, and product formulations are subject to change without notice.