



TRANSOIL
SAE TO-4 Fluid

Recommended for CAT® TO-2, CAT® TO-4
Allison® C-3, Allison® C-4 OEM Requirements



REV: 01.20.2021



DESCRIPTION

Xtreme™ Transoil™ SAE TO-4 Fluids are premium quality transmission, final drive, and hydraulic oils formulated to meet the specific frictional characteristics of Caterpillar and Allison Powershift Transmissions. These fluids are similar to Universal Transmission Hydraulic Fluids used in farm tractors and construction machinery but have higher frictional characteristics designed specifically for Caterpillar and Allison applications.

Xtreme™ Transoil™ SAE TO-4 M is a multi-season product designed for use in varying outdoor temperatures. It is an SAE 40 with a high viscosity index.

BENEFITS

- ❑ High Viscosity Index (VI) base oils improve oxidation resistance
- ❑ Excellent thermal stability improves high temperature operation
- ❑ Extreme pressure additives prevent gear scuffing and scoring
- ❑ Prevents formation of rust and sludge throughout the system
- ❑ Prevents corrosion of copper and brass
- ❑ Excellent hydrolytic stability
- ❑ Excellent resistance to foaming
- ❑ Specific frictional control per OEM specifications

APPLICATION

- Caterpillar TO-4 applications in logging and construction equipment
- Allison Powershift Transmissions where C-4 Fluids are recommended.
- Not recommended for low chatter clutch and brakes typical in farm tractors

PERFORMANCE LEVELS

- Caterpillar TO-4, TO-4M, TO-2
- Allison C-4, C-3, TES-439 (SAE 30)
- Komatsu KES 07.868.1, Komatsu Dresser
- Dana Powershift (SAE 30)
- ZF-TE-ML 03C (SAE 10), ZF-TE-ML 07F (SAE 30)
- Eaton / Fuller
- Tremec / TTC
- Eaton M-2950-S (SAE 10 & 30)
- Vickers 35VQ25

TYPICAL PROPERTIES	METHOD	SAE 10	SAE 30	SAE 50	TO-4M (SAE 40)
Color	D-1500	2.5	3.0	4.0	3.0
Specific Gravity at 15.6°C	D-1298	0.870	0.885	0.896	0.873
Viscosity, cSt at 100°C	D-0445	5.2	10.2	19.2	14.4
Viscosity Index	D-0445	105	97	95	135
Low Temperature Viscosity	D-2983				
@-35		20,000	-	-	-
@-30		-	-	-	41,200
@-25		-	38,000	-	-
@-15		-	-	40,000	-
Flash Point, COC °C (°F)	D-0092	220 (428)	245 (473)	261 (502)	236 (457)
ML Reference No.		573853	575971	574119	589100



NOTE:

The information on this Product Data Sheet is believed to be accurate and is typical of current production. Specifications are subject to change without notice. For additional qualifications, please contact Martin Technical Service Department.

Health And Safety Information See separate Safety Data Sheets available on request.

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