



Warren[®] TO-4 Drive Train Oil

WARREN TO-4 DRIVE TRAIN OILS are formulated to meet the stringent performance requirements of the Caterpillar TO-4 specification. These fluids are recommended for equipment where specified TO-4 qualified oils are required in order to maintain the Caterpillar equipment warranty. **WARREN TO-4 DRIVE TRAIN OILS** are blended to provide superior gear wear protection and excellent thermal stability while maintaining a delicate balance of static and dynamic frictional characteristics with a variety of materials to give smooth transmission power transfer under high horsepower conditions. The balanced additive package provides substantially improved load carrying capacities and durability and reduces brake chatter.

WARREN TO-4 DRIVE TRAIN OILS are recommended for the lubrication of heavy-duty equipment in both highway and off-highway service that require a lubricant meeting Caterpillar TO-4, Allison C-4, Komatsu KES 07.868.1, Komatsu Dresser, Komatsu Micro-Clutch, ZF TE-ML 01, 03C, 07F, Eaton Vickers EH-1027C, Temec/TCC, Dana Powershift, or API GL-3 specifications.

WARREN TO-4 DRIVE TRAIN OILS provides excellent service in all Caterpillar powershift transmissions, final drives, hydrostatic transmissions, torque converters, hydraulics or any system which specify TO-4 qualified oils. The SAE 10W and SAE 30 grades can be used in all applications requiring and Allison C-4 qualified oils.

Benefits

- Extends component life
- Excellent gear protection
- Oxidation and thermal stability for long life
- Excellent rust and corrosion protection
- Compatible with crankcase engine oils
- Improved friction and anti-wear performance compared to TO-2 fluids



Warren Oil Company, Inc

Dunn, NC 28334; Benton, AL 36758; San Antonio, TX 78210;
Marion, IL 62959; Johnstown, PA 15909; West Memphis, AR 72301



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Warren TO-4 Drive Train Oil do not contain friction modifiers or viscosity index improvers and CANNOT be used in farm tractors, and are not designed to be used in engine crankcases.

Typical Characteristics

	Warren TO-4 Drive Train Oils		
	10	30	50
Gravity	29.6	27.6	25.5
Viscosity			
@ 40 °C, cSt	41	101	248.5
@ 100 °C, cSt	6.34	11.5	20
@ 100 °F, SUS	191.3	468	1151
@ 210 °F, SUS	47	64.6	98.5
Viscosity Index	102	101	93
Flash Point °F	435	460	500
Copper Strip Corrosion	Pass	Pass	Pass
Foam Test	Pass	Pass	Pass



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