

PURUS® DRIVE TRAIN TO-4 OILS

Manufactured with highly refined base oils

DESCRIPTION: PURUS® Drive Train TO-4 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 to maintain the Caterpillar equipment warranty. PURUS® Drive Train TO-4 Oils are blended to provide excellent gear wear protection and thermal stability while maintaining a balance of static and dynamic frictional characteristics with a variety of materials. This provides smooth transmission power transfer under high horsepower conditions. Advanced additive chemistry provides substantially improved load carrying capacities and durability and reduces brake chatter.

APPLICATION: PURUS® Drive Train TO-4 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 & TO-4M, Allison C-4, Allison C-2, Komatsu KES 07.868.1, Komatsu Micro-Clutch, Parker (formerly Denison) HF-1 to HF-2, Eaton Vickers (formerly Vickers) I-286S & M2950S, Tremac/TCC for TO-4 only, Dana Powershift for TO-4 only, Eaton Full for TO-4 only, Euclid for TO-4 only, API GL-4 and wet brake applications. Supporting data is available to demonstrate acceptable performance in applications calling for Allison TES 439 (10W, 30W), Caterpillar FD-1 (where TO-4 is acceptable) and Caterpillar TO-2.

PURUS® Drive Train TO-4 Oils provide 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 10-W and SAE 30-W grades can be used in all applications requiring Allison C-4 qualified oils.

PERFORMANCE BENEFITS:

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

PURUS®TO-4 Drive Train Oils do not contain friction modifiers or viscosity index improvers and are not intended for use in farm tractors. These oils are not designed to be used in the engine crankcase.

TYPICAL PROPERTIES*:

Grade		10	30	50
Viscosity				
@100 Deg. C, cSt	ASTM D445	6.6	11.9	18.7
Viscosity Index	ASTM D2270	110	108	112
Flash Point Deg. °C (min)	ASTM D92	200	200	200
Copper Strip Corrosion		Pass	Pass	Pass

*Due to continual product research and development, the information contained herein is based on products purchased in the U.S. and subject to change without notification. Typical properties may vary slightly. Minor variations in product typical test data are to be expected in normal manufacturing



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