

TRANS-TECH Transmission Fluid TO-4 SAE 30

Product Description

TRANS-TECH TO-4 SAE 30 is a robust, high-quality monograde mineral transmission oil engineered to meet the strict performance standards of Caterpillar TO-4. It ensures precise friction control, optimized clutch performance, and outstanding wear protection for gears and hydraulics in heavy-duty equipment.

Formulated with high-quality base oils and advanced anti-wear, friction-modifying, and oxidation-inhibiting additives, it provides:

- Superior transmission life
- Consistent brake performance
- Extended oil change intervals under severe working conditions

Product Features & Benefits

- **TO-4 Approved Friction Performance:** Delivers proper clutch engagement and gear shifting in powershift and manual transmissions.
- **Anti-Wear Protection:** Safeguards against gear pitting and bearing wear in final drives and transmission systems.
- **Brake Noise Reduction:** Controls wet brake chatter and ensures smooth, quiet braking.
- **Thermal & Oxidation Stability:** Maintains performance under high-load, high-temperature operation.
- **Hydraulic System Compatibility:** Provides reliable performance in combined transmission-hydraulic systems.

Application

Suitable for:

- Caterpillar TO-4 transmission systems
- Komatsu, Allison (off-road), and other off-highway OEMs

Use in:

- Powershift & manual transmissions
- Wet brake systems
- Final drives
- Hydraulic systems where SAE 30 is recommended

Approvals & Specifications

- Caterpillar TO-4
- Komatsu KES 07.868.1
- Allison C-4 (non-on-highway use)
- May also be used where former Caterpillar TO-2 fluids were specified

Storage & Handling

- Store below 45°C in clean, dry, covered areas
- Avoid contamination with dust, water, or other lubricants
- Keep container sealed when not in use
- Refer to the SDS for full safety and handling instructions

Typical Properties

Property	Method	Value
Appearance	Visual	Bright & Clear
Density @ 15°C	ASTM D4052	0.889 g/cm ³
Kinematic Viscosity @ 40°C	ASTM D445	98 - 105 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	11.0 - 12.5 mm ² /s
Viscosity Index	ASTM D2270	≥95
Flash Point (COC)	ASTM D92	≥240°C
Pour Point	ASTM D97	-18°C
Copper Corrosion	ASTM D130	1b
FZG Gear Test	DIN 51354	Pass (Stage ≥12)
Foam Test (Seq I/II/III)	ASTM D892	Pass
Shear Stability	ASTM D6278	Excellent
Rust Protection	ASTM D665 A/B	Pass

