

CITGO TRANSGARD® HEAVY-DUTY TRANSMISSION FLUIDS



Date 07/15

DESCRIPTION: CITGO TRANSGARD Heavy-Duty Transmission Fluids are new generation Allison C-4 and CAT TO-4 transmission and drivetrain fluids. They are designed for heavy-duty construction equipment powershift transmissions, final drives and wet brakes. Compared to engine oil, TRANSGARD Heavy-Duty Transmission Fluids will improve transmission performance and power transfer under conditions of high horsepower output, increased loads, and higher transmission operating temperatures associated with heavy equipment. Base stocks and additives are carefully selected for compatibility with clutch face and seal materials.

Available Viscosity Grades: 10W, 30, 50 and 60.

QUALITIES: CITGO TRANSGARD Heavy-Duty Transmission Fluids provide longer transmission life than heavy-duty engine oils.

In meeting Allison C-4 (SAE 10W and 30 grades), Komatsu Micro-Clutch and Caterpillar TO-4 requirements, CITGO TRANSGARD Heavy-Duty Transmission Fluids offer improved performance while allowing product consolidation. They are offered in four viscosity grades to meet summer and winter powershift requirements. CITGO TRANSGARD Heavy-Duty Transmission Fluids' compatibility with asbestos-free clutch materials offers extended clutch life. Due to their physical and chemical properties, TRANSGARD Heavy-Duty Transmission Fluids provide greater power transfer efficiency. These fluids are recommended for lubrication of winch, clutch plates, gears and bearings. They will help reduce brake chatter in wet brake applications.

APPLICATIONS: Formulated to meet the performance requirements of:

- Allison C-4 – SAE 10W and 30 grades
- Caterpillar TO-4, CD/TO-2 – all grades
- Komatsu Micro-Clutch – all grades

BENEFITS: Use of CITGO TRANSGARD Heavy-Duty Transmission Fluids pay big dividends through reduced maintenance costs, longer equipment life, reduced downtime and higher production output. These are provided through reduced gear wear, improved friction control and greater rimpull. Rust and corrosion control protects gear cases and drive trains under the most severe conditions. The SAE 60 grade provides the greatest fluid film thickness for wear protection during severe operation.

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TYPICAL PROPERTIES:

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SAE Grade	10W	30	50	60
Material Code	633321001	633323001	633325001	633326001
Gravity, ASTM D 4052, °API	31.1	31.0	27.3	25.2
Density, lbs./gallon	7.30	7.37	7.49	7.51
Flash Point, COC, ASTM D 92, °F (°C)	420 (216)	446 (230)	511 (266)	532 (278)
Viscosity, ASTM D 445, cSt at 40°C	38.1	96	209	330
cSt at 100°C	6.3	11.3	18.8	25.5
Viscosity Index, ASTM D 2270	112	104	100	100
Brookfield Apparent Viscosity,	23,000	80,000	45,000	139,500
ASTM D 2983, cP, at Temp, °C	-35	-25	-15	-15
Pour Point, ASTM D 97, °F (°C)	-38 (-39)	-27 (-33)	+5 (-18)	0 (-18)
Color, ASTM D 1500	L3.0	L3.5	4.0	L7.0

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