

## G-Special TO-4 10W, 30 and 50

High Performance Transmission and Drivetrain Lubricants



G-Special TO-4 oils are high performance, heavy duty transmission and drivetrain lubricants formulated to optimize the performance of powershift transmissions, gearboxes, and final drives. In hydraulic applications, they provide maximum protection even in high pressure systems. It made from selected base oils and an advanced additive package to provide maximum capacity of construction, quarrying, and mining equipment operating in severe conditions. G-Special TO-4 meets the requirements of modern transmissions, oil-immersed brakes and hydraulic systems fitted to heavy-duty off-highway equipment. Specially engineered to meet requirements of Caterpillar and Komatsu specifications.

### Applications



- Heavy duty transmissions, gear boxes, final drives, and hydraulic systems used in off-highway applications
- Off-highway industries including: mining, construction, quarrying, and agriculture
- G-Special TO-4 10W and G-Special TO-4 30 are recommended for use in powershift transmissions, hydraulic systems, oil-immersed brakes
- G-Special TO-4 50 is recommended for power takeoff systems, differential units, final drives
- Not applicable for unites where UTTO oils are specified

Features	Advantages and Potential Benefits
Balanced static and dynamic friction coefficients	Optimized clutch-friction retention and slippage control
Excellent thermal and oxidation stability	Neutralizes acids formed from combustion or oil degradation, protects against high-pressure pump wear for long engine life
Increased levels of anti-wear capability	Reduced gear wear and extended life in transmissions, gearboxes, and final drives
Reliable share stability	Ensure consistent viscosity throughout fluid service life
Compatible with modern clutch materials and elastomers	Longer clutch life and higher performance
Versatile application	Applicable for wide range of hydraulic systems and transmissions, it will allow to reduce the number of fluids required on fleet

### Meets the requirements:

- API CF/CF-2
- Allison C-4
- Caterpillar TO-4
- Komatsu KES 07.868.1

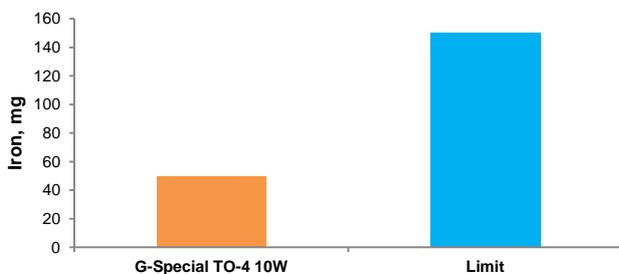
### Approvals:

- ZF TE-ML 03C (G-Special TO-4 10W and 30)
- ZF TE-ML 07F (G-Special TO-4 30)

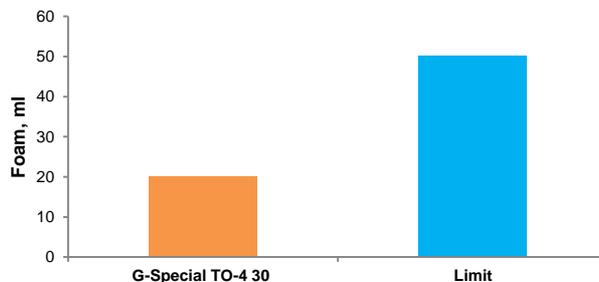
## Typical Characteristics

Properties	Method	G-Special TO-4 10W	G-Special TO-4 30	G-Special TO-4 50
SAE Viscosity Grade	SAE J300	10W	30	40
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	37,4	105	-
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D445	6,2	11,3	18,9
Viscosity Index	ASTM D2270	111	92	-
Flash Point (COC), °C	ASTM D92	226	244	252
Pour Point, °C	ASTM D97	-36	-30	-20
Density @15°C, kg/m <sup>3</sup>	ASTM D4052	887	899	906

Wear protecion\*



Foaming \*\*



\*DKA (CEC-48-A-95); \*\*ASTM D2983

## Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.