K1 Lube Gear TO-4

Premium Performance Off-Road Transmission and Hydraulic Oil

Caterpillar TO-4/TO-4M, Komatsu KES 07.861.1, ZF TE-ML-03C/07F, API MT-1, Allison C4, API CF/CF-2



DESCRIPTION

K1 Lube Gear TO-4 is a premium transmission fluid specifically engineered for heavy-duty off-road power-shift transmissions and hydrodynamic shifting systems. This advanced fluid is designed for contemporary construction and industrial machinery, satisfying the stringent performance standards of Caterpillar TO-4, Allison C-4, and additional off-highway equipment specifications.

APPLICATIONS

K1 Lube Gear TO-4 is designed for demanding off-highway heavy equipment applications. This transmission fluid satisfies critical performance standards and is suitable for use wherever manufacturers specify Caterpillar TO-4 and Allison C-4 automatic or powershift transmission fluids.

- Off-Road Transmission and associated equipment
- Automotive manual transmissions and gearboxes
- Hydraulic systems
- Enclosed oil immersed (wet) brakes

PERFORMANCE STANDARDS

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CUSTOMER BENEFITS

Maximizes transmission life

Extremely shear stable formulation maintains film thickness under severe transmission and hydraulic system operation, protecting vital components against scuffing and wear. Effective anti-wear additive also reduces wear by forming a protective layer on metal surfaces under high load conditions.

Longer oil life

Very high oxidation stability protects against the formation of gums and varnishes, reducing oil thickening and increasing oil life.

Saves on maintenance

Highly refined base oils and effective oxidation inhibitors provide excellent thermal and oxidation stability, providing superior resistance to the formation of lacquer, deposits and corrosive oil degradation by-products. Excellent viscosity characteristics at low temperatures ensure rapid oil circulation on start-up, preventing wear which contributes to power loss.

Smooth and quiet operation

Special friction modifier component allows smooth action of the wet brakes and power take off clutches minimizing chatter, stick slip and squawk and ensures maximum brake efficiency.

KEY PROPERTIES

SAE Viscosity	10W	30	40	50
Kinematic Viscosity, mm^2/s @ 40°C	38.4	93.7	144.5	205.0
Kinematic Viscosity, mm^2/s @ 100°C	6.2	11.1	14.4	18.2
Viscosity Index	109	105	98	97
Pour Point, °C	-32	-26	-21	-18
Flash Point, COC, °C	228	260	262	268
Package (Liters)	20, 200	20, 200	20, 200	20, 200