



ProTorq TO-4 Fluids

DESCRIPTION

ProTorq TO-4 Fluids are specially formulated to meet the stringent lubrication requirements of late model Caterpillar equipment. Premium base stocks and advanced additive technology deliver superior wear protection and excellent thermal stability while maintaining a delicate balance of static and dynamic lubrication characteristics.

ProTorq TO-4 Fluids are available in SAE grades 10W, 30W and 50W to meet a wide-range of Caterpillar and off-road fluid applications, including; power shift transmissions, hydrostatic transmissions, clutch plates, torque convertors, final drives and hydraulic systems.

PERFORMANCE BENEFITS

- Robust anti-wear properties protect critical transmission and final drive components
- Outstanding resistance to sludge and varnish deposit formation
- Balanced friction properties deliver smooth clutch plate operation
- Reduces brake chatter in wet brake operation under heavy-load
- Excellent oxidation resistance and thermal stability support extended fluid life
- Shear stable chemistry delivers stay-in-grade performance in a wide-range of operating temperatures

PRODUCT APPLICATION

ProTorq TO-4 Fluids Fluid is Recommended for Caterpillar and other off-road equipment requiring:

- Caterpillar TO-4 & TO-2 (obsolete)
- Allison C-4
- Komatsu Micro-Clutch Equipment
- Vickers (Eaton) M-2950-S (SAE 10W)
- ZF TE-ML 03C Transmission (SAE 10W & 30)
- Caterpillar TO-4 hydraulic system standards & zinc content (SAE 10W)

Typical Physical Properties				
Property	Method			
SAE Grade		10W	30W	50W
Viscosity, cSt @ 40°C	D-445	41.0	101.0	248.5
Viscosity, cSt @ 100°C	D-445	6.4	11.5	20.0
Viscosity Index	D-2270	120	105	100
API Gravity, @60°F	D-1250	29.6	27.6	25.5
Flash Point, COC, °C(°F)	D-92	224 (435)	238 (460)	260 (500)
Pour Point, °C(°F)	D-97	-33 (-27)	-18 (0)	-15 (5)
Copper Corrosion Test	D-130	1b	1b	1b
Rust Test	D-665	Pass	Pass	Pass
Total Base Number (TBN)	D-2896	7.5	7.5	7.5

Minor variations in physical test results may occur through normal manufacturing

Always consult original equipment manufacturer's lubricant recommendation for proper fluid application.

