



## **Tiger Oil TO-4 SAE 10** *Advanced Hydrostatic Fluid*

Colliflower Tiger Oil TO-4 SAE 10 is an advanced multifunctional hydrostatic fluid developed for use in transmissions and hydraulic systems of off-highway equipment where a fluid meeting Caterpillar TO-4 performance requirements are specified.

Colliflower Tiger Oil TO-4 SAE 10 starts with a clear, highly pure base oil and is combined with a robust additive system containing zinc that delivers outstanding oxidation stability and wear protection. Its carefully optimized frictional properties prevent clutch slippage for smoother, more consistent transmission operation and also provides improved wet brake performance to extend component life.

### **Outstanding Oxidation Stability**

- ✓ Precisely selected, high performance base oil and anti-oxidants provide an advanced level of performance to prevent the oil from thickening over extended periods of time.
- ✓ Helps reduce sludge and varnish deposits in high pressure, high output pumps to ensure smooth, reliable operations of hydraulic valves and actuators.
- ✓ Extends drain intervals and component life.

### **Wear Protection**

- ✓ Robust zinc-based anti-wear package protects critical valves, vanes and pistons.
- ✓ Formulated with added components for heavier load carrying capabilities.
- ✓ Exceeds pump manufacture wear requirements to extend drain intervals and component life.

### **Comprehensive Performance**

- ✓ Carefully optimized frictional properties to prevent powershift transmission clutch slippage and less clutch setting adjustments.
- ✓ Excellent deposit control.
- ✓ Hydrolytic stability of the advanced additive package remains intact in the presence of water.
- ✓ Helps prevent rust formation to keep systems clean and in smooth operating condition.
- ✓ Versatility of fluid helps with consolidation in on and off-highway equipment.
- ✓ Extends component life.

### **Applications**

- Powershift transmissions, hydrostatic transmissions, torque converters, and hydraulic systems of Caterpillar, Euclid, Komatsu and other off-highway construction and mining equipment.
- Heavy-duty automatic transmissions where the OEM specifies an Allison C-4 quality fluid.
- Heavy-duty manual and semi-automatic transmissions in trucks and buses where the OEM specifies a Caterpillar TO-4 quality fluid or a heavy-duty engine oil.

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Colliflower Tiger Oil TO-4 SAE 10 is suitable for use where the following are specified:

- Caterpillar TO-4, TO-2
- Vickers (Eaton) M-2950-S
- Allison C-4, TES 439
- MIL-H-24459
- ZF torque converter transmissions in off-highway equipment where the OEM specifies a TE-ML 03C quality lubricant

TEST	METHOD	UNIT	SAE 10
Viscosity, Kinematic 100°C	ASTM D445	mm <sup>2</sup> /s	6.6
Viscosity Kinematic 40°C	ASTM D445	mm <sup>2</sup> /s	43.0
Pour Point	ASTM D97	°F	-38
Flash Point	ASTM D92	°F	415
Viscosity Index	ASTM D2270	none	105
Total Base Number (TBN)	ASTM 2896		7.6