



TO-4 FLUIDS

Sinclair TO-4 Torque Fluids are high quality transmission and drive train fluids designed to meet Caterpillar's TO-4 specifications for use in all of their off-highway equipment. Caterpillar requires the use of these fluids for all new equipment that is still under the factor warranty and recommends their use in all older Caterpillar equipment. Sinclair TO-4 Fluids may also be used in transmissions that require an Allison C-4 Fluid.



APPLICATIONS

- In power shift transmissions and final drives of all new Caterpillar equipment that requires the use of fluid meeting TO-4 specifications.
- In transmissions and final drives of all older Caterpillar equipment, which had recommended the use of a fluid meeting Caterpillar TO-2 Fluids.
- In the transmissions that specify the use of a fluid meeting Allison C-4 specifications.
- In the transmissions, drive trains and hydraulic systems in off-highway equipment of other manufacturers which recommend the use of fluid meeting TO-4 specifications.

PERFORMANCE

Exceeds wear requirements of Caterpillar TO-4 specifications. Features stable friction characteristics, which eliminate excessive brake noise. This also eliminates clutch slippage, even under heavy loads on steep inclines. There is less need to adjust equipment to maintain clutch settings. Provides excellent oxidation stability, resistance to foaming and rust control. Provides controlled friction performance with several friction materials, both metallic and non-metallic. Exhibits outstanding shear stability to maintain grade over the life of the equipment, providing long-term anti-wear protection and sustained applied pressure. Provides excellent low-temperature fluidity to give easier cold-weather starting and better wear protection under these conditions.



TO-4 FLUIDS

TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS		
		TO-4 SAE 10	TO-4 SAE 30	TO-4 SAE 50
Gravity, °API	ASTM D287	30.75	28.26	26.97
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8721	0.8857	0.8929
Viscosity @ 40°C cSt	ASTM D445	43.25	96.89	212.6
Viscosity @ 100°C cSt	ASTM D445	6.929	11.81	19.45
Viscosity Index	ASTM D2270	118	112	104
Color	ASTM D1500	1.5	5	3.5

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
TO-4 SAE 10	5 Gallon	531-008	0 14168-01629 2	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.152 / 1728.385	42 Eaches (3 layers of 14)
TO-4 SAE 10	55 Gallon	531-003	0 14168-01690 2	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	429.321 / 1717.284	4 Drums
TO-4 SAE 10	330 Gallon	531-002	N/A	N/A	L 47.250 x W 39.250 x H 53.250	57.150 / 57.150	2,546.560 / 2546.560	1 Tote
TO-4 SAE 30	5 Gallon	532-008	0 14168-01630 8	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.152 / 1728.385	42 Eaches (3 layers of 14)
TO-4 SAE 30	55 Gallon	532-003	0 14168-01691 9	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	435.047 / 1740.187	4 Drums
TO-4 SAE 30	330 Gallon	532-002	N/A	N/A	L 47.250 x W 39.250 x H 53.250	57.150 / 57.150	2,579.632 / 2579.632	
TO-4 SAE 50	5 Gallon	533-008	0 14168-01631 5	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.152 / 1728.385	42 Eaches (3 layers of 14)
TO-4 SAE 50	55 Gallon	533-003	0 14168-01692 6	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	415.855 / 1663.420	4 Drums

