

STERN Drive Train TO-4 P-Series

STERN Drive Train TO P-Series Fluids are formulated to meet the performance requirements of Caterpillar Specification TO-4 and Allison C-4 for transmissions, final drives, and hydraulic systems. The fluids are manufactured from selected, highly refined base stocks and compounded with additives to enhance oxidation and heat resistance, specified friction control, cleanliness, load carrying ability, corrosion and wear protection, and low foam tendency. Drive Train TC has good detergent-dispersant characteristics.

APPLICATIONS

In normal operations the products are designed to meet those applications requiring an SAE 10W primarily for hydraulic systems, viscosity grade SAE 30 for transmissions, and SAE 50 and SAE 60 for final drives. They are also suggested for heavy-duty truck automatic transmissions requiring fluids meeting SAE 10W or SAE 30 viscosity characteristics. They should not be used for crankcase motor oil applications or those transmission systems where low brake/clutch chatter is a requirement.

TYPICAL PROPERTIES

Drive Train TO-4	10W	30W	50W
<i>Viscosity (cSt) at 40°C</i>	42.7	95.2	185.2
<i>Viscosity (cSt) at 100°C</i>	6.5	11.0	17.3
<i>Viscosity Index</i>	102	100	100
<i>Viscosity, Cold Crank Sim, -25°C</i>	3250	-	-
<i>Flash Point, (COC) °F (min)</i>	400	425	460
<i>Color, ASTM</i>	2.0	3.0	4.5
<i>TBN</i>	7.5	7.5	7.5
<i>Sulfated Ash, %</i>	1.2	1.2	1.2
<i>Pour Point, °F</i>	-25	-10	+5
<i>Gravity, API @ 60 °F</i>	30.0	28.5	27.0