



PURAMAX TO-4 Fluid

PURAMAX TO-4 Fluids are formulated to meet the demanding requirements of Caterpillar TO-4 and Allison C-4 specifications in transmissions, final drives and hydraulic systems. PURAMAX TO-4 Fluids are designed to meet those applications requiring an SAE 10W primarily for hydraulic systems, SAE 30 for transmissions, and SAE 50 for final drives. They are also recommended for heavy-duty truck automatic transmissions requiring fluids meeting SAE 10W or SAE 30 viscosity characteristics.

PURAMAX TO-4 Fluids are formulated with premium base stocks and select additives to provide ultimate performance in transmission and drivetrain applications operating under increased loads and high temperatures. They provide increased shear stability, resistance to oil oxidation, corrosion protection and excellent anti-wear performance. The high performance additive system helps reduce brake chatter in wet brake applications.

APPLICATIONS

- Transmission, final drives and wet brakes in Caterpillar and Komatsu
- Transmission, torque converters and hydraulic systems in Allison, Dana Powershift and ZF
- Mobile hydraulic systems

FEATURES AND BENEFITS

- Advance protection against wear under high load
- Excellent oxidation stability and sludge control
- Designed for new and older drivetrain components
- Maximum foam protection
- Excellent shear stability
- Oxidation inhibited to prevent oil thickening

RECOMMENDED PERFORMANCE SPECIFICATIONS

- Caterpillar TO-4
- Allison C-4 (SAE 10W, 30)
- Komatsu
- Dana Powershift
- ZF
- Vickers

PURAMAX TO-4 Fluid Typical Characteristics				
ISO Grade	ASTM-D	10W	30	50
Gravity, °API	1298	29.3	27	26
Viscosity cSt @ 40°C	445	39	104	210
Viscosity cSt @ 100°C	445	6.7	11.4	19
Viscosity Index	2270	101	96	93
Flash Point, °C (°F)	92	204(400)	254(490)	254(490)
Pour Point, °C (°F)	97	-30(-22)	-24(-11)	-15(-5)
TBN	2896	7.1	7.1	7.1
Sulfated Ash, Wt. %		1.2	1.2	1.2
Zinc, Wt. %		0.124	0.124	0.124

Minor variations in test data are to be expected in normal manufacturing