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PRODUCT DATA SHEET

XL SYNTHETIC TO-4 TRANSMISSION (CAT) SAE 50

Product Code 31130

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DESCRIPTION

XL Lubricants Synthetic (PAO) TO-4 TRANSMISSION fluids are designed primarily for powershift transmissions, drive chains, clutches and hydraulic systems in off-highway equipment manufactured by Caterpillar, Case, Clark, Komatsu, Massey Ferguson and others, used in earth moving, mining, logging, road transport and agricultural applications. Synthetic TO-4 Transmission fluids are high performance, non-friction modified and heavy-duty fluids designed for use under the most arduous conditions.

RECOMMENDATION

Synthetic (PAO) TO-4 TRANSMISSION fluids are primarily recommended for use in all Caterpillar, Komatsu and other off-highway equipment powershift transmissions, final drives and marine transmissions. It also suitable for use in mobile hydraulic systems, hydrostatic transmissions, heavy duty manual transmissions and final drives for which heavy duty engine oils are specified.

BENEFITS

- Longer transmission and equipment life - special organic anti-wear additive system controls wear of critically loaded components. The effective inhibitor system protects precision parts from corrosion and rusting. Also ensures long seal life.
- Oil service life extended. Group 4 Poly-alpha-olefin base oils and oxidation inhibitor slows lubrication breakdown under all operating conditions and have a much broader temperature range and are great for use in extreme cold conditions and high heat applications. This effectively limits the formation of varnish and sludge.
- Shifting patterns controlled. Rapid release of air ensures smooth shifting in all transmissions. Low temperature fluidity aids performance in cold weather. Foam formation is minimized by a special foam inhibitor.

SPECIFICATION

API
Caterpillar

CF (Non engine applications)
TO-4

MEETS SPECIFICATION

- Eaton Vickers 1027C
- Komatsu KES 07.868.1
- Tremtec / TCC
- ZF TE-ML 01

IN SERVICE

SYNTHETIC XL TO-4 TRANSMISSION fluids are not compatible with any other oils.

CHARACTERISTICS*

TEST	METHOD	TYPICAL VALUE
Density 15°C, g/cm ³	ASTM D7042	0.8480
Kinematic Viscosity 40°C, cSt	ASTM D7042	150
Kinematic Viscosity 100°C, cSt	ASTM D7042	19.0
Viscosity Index	ASTM D2270	140
Flash Point, °C	ASTM D92	>210
Pour Point, °C	ASTM D97	-36
Zinc, %wt	ASTM D5185	0.10
FTIR	ASTM E2412	Match

*Product data shows typical values and do not represent a specification