

PRODUCT DATA SHEET

TO-4 TRANSMISSION (CAT) SAE 50

Product Code 30190

Date: 08/08/2018

DESCRIPTION

XL Lubricants 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. TO-4 Transmission fluids are high performance, non-friction modified and heavy-duty fluids designed for use under the most arduous conditions.

RECOMMENDATION

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. Severely refined hydrocracked base oils and oxidation inhibitor slows lubrication breakdown under all operating conditions. 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 CF (Non engine applications)
- Caterpillar TO-4
- Eaton Vickers 1027C
- Komatsu KES 07.868.1
- Tremtec / TCC
- ZF TE-ML 01

IN SERVICE

XL TO-4 TRANSMISSION fluids are not compatible with anti-wear hydraulic fluids or automotive gear oils. They are compatible with engine oils, although the API CF performance classification indicates that the additives do not justify its use in engine applications.

CHARACTERISTICS*

TEST	METHOD	TYPICAL VALUE
Density 15°C, g/cm ³	ASTM D7042	0.8940
Kinematic Viscosity 40°C, cSt	ASTM D7042	170.0
Kinematic Viscosity 100°C, cSt	ASTM D7042	17.5
Viscosity Index	ASTM D2270	110
Flash Point, °C	ASTM D92	>210
Pour Point, °C	ASTM D97	-12
Zinc, %wt	ASTM D5185	0.10
FTIR	ASTM E2412	Match

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