



# GLS T/A XL Lubricants Pty Ltd

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## PRODUCT DATA SHEET

### TO-4 TRANSMISSION (CAT) SAE 30

Product Code 30180

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#### 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

Allison	Type C4
API	CF (Non engine applications)
Caterpillar	TO-4

## **MEETS SPECIFICATION**

- DANA Powershift Transmissions
- Komatsu Dresser
- Komatsu KES 07.868.1 (Transmissions and final drives)
- ZF TE-ML 01 (obsolete)
- ZF TE-ML 03C
- ZF TE-ML 07F

## **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\***

<b>TEST</b>	<b>METHOD</b>	<b>TYPICAL VALUE</b>
Density 15°C, g/cm <sup>3</sup>	ASTM D7042	0.8820
Kinematic Viscosity 40°C, cSt	ASTM D7042	70.0
Kinematic Viscosity 100°C, cSt	ASTM D7042	10.0
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