



PRODUCT & TECHNICAL DATA

PRO TO-4 RANGE

CAT TO-4 TRANSMISSION OIL

DESCRIPTION

The Pro TO-4 range combines superior additive technology with high quality base stocks. It is formulated for use in Caterpillar and Komatsu equipment which specify, TO-4 transmission qualified oils. It also exceeds the performance requirements of the Allison C-4 specification. Pro TO-4 oils provides excellent wear protection and extends component life. Today's powershift transmissions are made with high tech materials which improves power transfer but are not completely compatible with many crankcase oils. Although Pro TO-4 is not our primary recommendation for crankcase oil, it is a fully approved API CD oil and is thus compatible with all crankcase oils and may be used in any engine which specifies API CD performance levels. Pro TO-4 provides superior gear protection and excellent thermal stability. It also maintains a delicate balance of static and dynamic friction characteristics with a variety of materials, which improves load carrying capacity and durability and reduces brake chatter. As a result, Pro TO-4 improves performance and provides longer component life.

APPLICATIONS

Pro TO-4 is recommended for the lubrication of heavy duty equipment in both on highway and off highway service that require a lubricant meeting the Caterpillar TO-4, Allison C-4 or API GL-3 specifications. Pro TO-4 provides excellent service to all Caterpillar powershift transmissions, final drives, hydrostatic transmissions, torque converter oils, as well as oil transmissions and drive trains recommending Allison C-4 qualified oils.

PERFORMANCE LEVELS

- KOMATSU TO-4
- CAT TO-4
- ALLISON C-4
- GL-3

FEATURES AND ADVANTAGES

- Excellent gear wear protection.
- Extends component life.
- Excellent thermal stability.
- Compatible with crankcase oils.
- Excellent frictional characteristics.
- Outstanding cleanliness.
- Excellent protection against rust and corrosion.

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PHYSICAL CHARACTERISTICS

SAE	10W	30	40	50	60
Density @ 20 °C, kg/l	0.872	0.871	0.899	0.815	0.901
Viscosity @ 40 °cSt	44.02	83.80	152	217.57	322
Viscosity @ 100 °cSt	6.75	10.52	14.80	19.88	24.30
Viscosity Index	107	108.90	105.18	104.80	104.70
Pour Point, °C	-30	-15	-12	-12	-6
Flash Point, °C	<226	<226	<226	<226	<226
Total Base No, mgKOH/g	8.40	8.40	8.40	8.40	8.40

GENERAL ADVICE

Further information on all Pro Oil SA lubricants is available from any Pro Oil SA office or from:
www.prooil.co.za

These characteristics are typical of current production.
Whilst future production will conform to Pro Oil SA's specification, variations in these characteristics may occur.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pro Oil SA representative.

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