



Product Data

Castrol Trans C 30

TO-4 Transmission Fluid

Description

Castrol Trans C, Transmission Drive Train Oil, meets the stringent Caterpillar TO-4 Fluid requirements, particularly where paper and elastomer disc materials are utilized and friction retention must be optimized for extended clutch life and slippage control under severe high load operations. While commercial engine oil technology excelled in the previous Caterpillar required CD/TO-2 specification where the bronze clutches prevailed, Castrol Trans C provides field-tested technology to ensure durability under today's strenuous operating conditions and where significant clutch material changes have taken place.

Castrol Trans C will also provide Detroit Diesel Allison C-4 performance. **CASTROL TRANS C** excels in many on and off-highway hydraulic oil applications.

Castrol Heavy Duty's traditional quality approach prevails in our "Trans C Fluid" by having premium base oil selection (high viscosity indexes) coupled with select additives for noted oxidation stability, rust and corrosion protection, foaming inhibition, anti-wear protection, mild "EP" and assured excellent pumpability in the "SAE 30" or ISO 100 grade.

Advantages

- Designed specifically for transmission, wet disc brakes and final drives.
- Substantially improved friction and anti-wear performance compared to CD/TO-2 fluids.
- Longer equipment life and reduced risk of field failure.
- Formulated to provide controlled friction performance with several different friction modifiers (both metallic and non-metallic).
- Eliminate field failure problems experienced with CD/TO-2 fluids such as excessive brake noise, weakening of the binder in paper materials and embrittlement of elastomeric materials for trouble free equipment life.
- Stable frictional performance over vehicle life.
- No degradation of frictional performance or clutch slippage, even under high loads on an incline.
- Excellent oxidative stability control as shown by performance in Allison C- 4/Dexron II Oxidation Test (THOT).
- Sludge control prevents deposits from blocking lubricating passages.
- Excellent final drive protection for gears. Margin of safety for severe service.
- Excellent protection in hydraulic systems to include high pressure systems.
- Versatility of fluid for consolidation in on and off-highway equipment.
- Protection against copper corrosion and rust.
- Equipment parts run "clean" for trouble free operation.
- Maximum foam protection.
- Ensures no fluid loss to foaming, even with water contamination.
- Protection against fluid overflow and fire hazards for worker safety.
- Excellent low temperature fluidity
- Easier starts with less wear at cold temperatures for longer transmission life and increased worker productivity.

Typical Characteristics

Name	Method	Units	Trans C 30
Density @ 15C, Relative	ASTM D4052	g/ml	0.866
Viscosity, Kinematic 100C	ASTM D445	mm²/s	10.9
Viscosity, Kinematic 40C	ASTM D445	mm²/s	92
Viscosity Index	ASTM D2270	None	102
Flash Point, COC	ASTM D92	°C (°F)	>220 (>428)
Pour Point	ASTM D97	°C (°F)	-27 (-17)

Product Performance Claims

CAT TO-4

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60C, exposed to hot sun or freezing conditions.

Castrol Trans C 30

28 Aug 2024

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470

Telephone: 1,800.462.0835

www.castrol.com/us Email: contactus@bp.com