

POWERTRANS

SAE 10W / 30 / 50

Product Description

POWERTRANS is a high performance transmission fluid formulated by high performance additive which provides excellent wear protection, friction retention and heat resistant for longer oil drain interval. It is suitable for powershift transmission, torque converter and hydraulic system of heavy machine and construction equipment.

Benefits

- Controls powershift transmission friction excellently.
- Reduces gear wear, excellent oxidation stability and sludge control.
- Well protects against corrosion, rust, and maximizes foam protection.
- Provides smoother brake operation and prolongs life of transmission and breaking system.
- Offers good seal compatibility.

Applications

- Designed for powershift transmissions of heavy equipment such as CATERPILLAR, KOMATSU etc.
- Recommended for manual transmissions of commercial vehicles such as ZF and ALLISON.
- Suitable for torque converters, hydraulic systems and final drives required viscosity grade SAE 10W, 30 or 50.

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Typical Characteristics

Tests	Methods	Units	Results		
			10W	30	50
Density at 15 °C	ASTM D 4052	g/cm ³	0.882	0.894	0.902
Kinematic Viscosity at 40 °C	ASTM D 445	mm ² /s	41.2	89.7	222
Kinematic Viscosity at 100 °C	ASTM D 445	mm ² /s	6.4	10.5	19.0
Viscosity Index	ASTM D 2270		104	99	96
Total Base Number	ASTM D 2896	mg KOH/g	7.5	7.5	7.5
Flash Point (COC)	ASTM D 92	°C	238	248	266
Pour Point	ASTM D 5950	°C	-36	-30	-18

Performance Standards

- CAT TO-4
- KOMATSU MICRO-CLUTCH
- MACK TRANSMISSION
- ALLISON C-4
- ZF TE-ML 01, 03, 04, 10, 14

Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>

PTT LUBE SOLUTIONS Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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