



Autran 4

Powershift Transmission Fluid

Applications

Autran 4 is a transmission fluid specifically developed for use in powershift, direct drive transmissions, wet-disc brakes, differentials and final drives of Caterpillar equipment where Caterpillar TO-4 performance level is required.

Autran 4 is available in grades SAE 10W, SAE30 and SAE 50.

Main Benefits

- Improved friction and antiwear performance compared to CD/TO-2 fluids.
- Stable friction characteristics, eliminating transmission slippage and reducing excessive brake noise making transmissions easier to operate.

- Enhanced wear protection to final drive gears leading to longer unit life.
- Excellent oxidation stability, and protection against corrosion and rust.

Specifications

SAE 10W and SAE30:

- ZF TE-ML 03C
- Caterpillar TO-4
- Allison C4

SAE 50:

- Caterpillar 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

the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP p.l.c. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical Characteristics

	Test Methods	Units	Grade :		
SAE			10W	30	50
Density at 15 °C	ISO 3675 ASTM D1298	kg/m ³	884	898	900
Flash Point (COC)	ISO 2592 ASTM D92	°C	218	225	230
Kinematic Viscosity at 100 °C	ISO 3104 ASTM D445	mm ² /s	5.8	11.5	18.5
Viscosity Index	ISO 2909 ASTM D 2270	-	95	95	93
Pour Point	ISO 3016 ASTM D97	°C	-33	-24	-15

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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