

SAE 10W POWER SHIFT

Description

Power up Powershift Transmission Fluid is a high-performance multi-functional fluid developed for use in transmissions, final drives and hydraulic systems of off-highway equipment where a fluid meeting Caterpillar TO-4 performance requirements is specified. It provides substantially improved friction and antiwear performance compared with older API CD/TO-2 quality fluids, resulting in longer equipment life and reduced risk of field failure. The SAE 10W and 30 viscosity grades also are recommended for use in Allison off-highway heavy-duty automatic transmissions where a CF-4 quality fluid is specified. Powershift Transmission Fluid is formulated with state-of-the-art additive technology that provides improved deposit control, corrosion protection and load-carrying capacity for better equipment protection and more reliable operation. Its carefully optimized frictional properties prevent clutch slippage for smoother, more consistent transmission operation and also provide improved wet brake performance.

REDEFINING LIQUID ENGINEERING

Performance Benefits

Well-balanced frictional properties for efficient clutch operation and improved wet brake performance	Excellent deposit control and wear protection
Excellent oxidation resistance and thermal stability for long fluid life	Protects yellow metals against corrosion
High load-carrying capacity for protection of final drive gear sets	Compatible with a wide variety of seals and friction materials

TESTING METHODS	RESULTS
SAE GRADE	10W
VISCOSITY, ASTM D445	
cSt @ 40 °C	44.0
cSt @ 100 °C	6.6
Viscosity Index, ASTM D 2270	101

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Sulfanated Ash, Wt%, ASTM D874	0.1
Total Base # , mg KOH/g, ASTM D 2896	7.6
Pour Point, °C, ASTM D 97	-35
Hi-Temp Hi-Shear Viscosity @ 150 C 1x10(6) sec(-1), mPa.s, ASTM D46834	3
Flash Point, °C, ASTM D 92	230
Density @ 15°C kg/l, ASTM D 4052	0.876
Zinc, wt %	0.110

Approval

Powershift Transmission Fluid SAE 30 is OEM-approved for service fill in the following applications: • Allison TES-439, for off-highway applications (approval no. 439- 33422013) Powershift Transmission Fluid meets or exceeds the requirements of: • Caterpillar TO-4, TO-2(1) • Vickers (Eaton) M-2950-S (1)obsolete specification Powershift Transmission Fluid is recommended for service fill in: • ZF torque converter transmissions in off-highway equipment where the OEM specifies a TE-ML 03C quality lubricant (SAE 10W, 30)

PRODUCTS AVAILABLE IN 1L,4L,5L,18L,200L,1000L

Health, Safety & Environment

Health and Safety

- Our Lubricant is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.
- Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.advancelubholdings.com>
- Protect the Environment Take used oil to an authorized collection point.
- Do not discharge into drains, soil or water. Additional Information Advice on applications not covered here may be obtained from our representative.

