



LUBRICANTS

PowerTran™ Fluid

Phillips 66® PowerTran Fluid is a multi-functional fluid specially formulated for use in farm tractors and other off-highway equipment requiring one lubricant for the transmission, final drive, wet brakes and hydraulic systems. It meets the performance requirements of all major brands of farm tractors and other farm equipment that utilize a common fluid reservoir.

PowerTran Fluid is formulated to provide excellent oxidation resistance, excellent wear protection, protection against rust and corrosion, and resistance to foaming. It has carefully balanced frictional properties to ensure proper operation of wet brakes and transmission clutches.

PowerTran Fluid is available in two viscosity grades for use over a wide range of temperatures. The heavier viscosity grade is suitable for year-round use in most climates, whereas the “Low Viscosity” grade is recommended for use in cold climates where a John Deere J20D fluid is specified.

Applications

PowerTran Fluid is recommended for use where the equipment manufacturer specifies:

- AGCO Power Fluid 821XL, Q-1826, Q-1802 (Type 55 Fluid), Q-1766B
- Case IH MS1210, MS1209, MS1207, MS1206
- Case New Holland (CNH) MAT3525 (134-D Fluid), MAT3506, MAT3505
- Caterpillar TO-2 (obsolete)
- Denison Hydraulics HF-0, HF-1, HF-2
- Ford ESN-M2C134-D, ESN-M2C86-C, ESN-M2C86-B, ESN-M2C41-B
- Ford-New Holland FNHA-2-C-201.00
- John Deere JDM J20C, J20D (“Low Viscosity” grade), J14C (Type 303 Fluid)
- Kubota UDT Fluid
- Landini Tractor II Hydraulic Fluid
- Massey Ferguson CMS M1145/M1143, M1141, M1135, M1129A
- Sundstrand Hydrostatic Transmission Fluid
- Vickers (Eaton) M-2950-S, I-286-S
- Volvo VME WB 101 (VCE 1273.03)
- ZF TE-ML 03E, 05F, 17E, 21F

PowerTran Fluid also meets API GL-4 performance requirements.

**Multipurpose
Hydraulic/
Transmission/
Final Drive
Fluid for Farm
Tractors**

KEEPING THE
WORLD
RUNNING
SMOOTHLY. 



Features/Benefits

- Excellent oxidation resistance and thermal stability
- Excellent wear protection for clutches, gears and hydraulic pumps
- Prevents brake chatter and grabbing
- Protects against rust and corrosion
- Excellent seal compatibility
- Good foam resistance
- Two viscosity grades for use in most climates

PowerTran™ Fluid

Typical Properties		
SAE Grade		Low Vis
Specific Gravity @ 60°F	0.879	0.864
Density, lbs/gal @ 60°F	7.32	7.19
Color, ASTM D1500	3.5	3.5
Flash Point (COC), °C (°F)	210 (410)	190 (374)
Pour Point, °C (°F)	-43 (-45)	-51 (-60)
Viscosity, Brookfield		
cP @ -20°C	2,800	---
cP @ -35°C	26,700	---
cP @ -40°C	---	11,500
Viscosity, Kinematic		
cSt @ 40°C	61.0	34.3
cSt @ 100°C	9.4	7.4
Viscosity Index	135	190
Sulfated Ash, ASTM D874, wt %	1.41	1.41
Total Base Number (TBN), ASTM D2896	9.6	9.6
Zinc, wt %	0.149	0.149

Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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