

# Puma Tractor Transmission

## Tractor Transmission Oil

Puma Tractor Transmission is a multi-purpose lubricant with special properties which make it suitable for use in modern tractors, where a single product is used for the lubrication of the gearbox, differential, oil-bath clutches, wet brakes, hydraulic systems, final drives and power take-off gearboxes.

- ✓ Anti-wear Protection
- ✓ Oxidation Resistance
- ✓ Transmission Oil

## Designed to Perform

### Anti-wear Protection – Longer Equipment Life

Proven anti-wear additive packages provide greater resistance to sliding wear thus ensuring efficiency and long life of all moving parts of which greatly reduce the need for engine servicing and overhauls.

It is formulated with a special additive package that addresses anti-wear and EP properties which protect gear teeth from pitting and also protects bearings.

### Multi-grade Performance

Suitable for all year use in most climatic conditions. An enhanced viscosity index improver allows for the engine oil to give excellent protection during cold start-ups and extremely hot conditions.

### Oxidation Resistance - Longer Oil Life

It has extremely good oil life and lubricant stability even when subjected to unusually high thermal stresses; this property minimises sludge and deposit formation, thus preventing blocking of ports, valves and controls, while guaranteeing that the oil remains properly fluid. Maintenance costs are therefore reduced and the useful service life of the oil is extended.

### Anti-foam – Increased Performance

Easy release of entrained air which will prevent difficulties with pumps and controls which can cause irregularities in performance and other problems arising from the compressibility of air bubbles.

### Anti-corrosion & Anti-rust Properties

It has particularly good anti-corrosion properties which effectively protect the equipment from corrosion, moisture and acids. These additives inhibit the oxidation and therefore prevent breakdown of the oil.

### Demulsibility

Prevents the formation of water in oil emulsion, which enters the system through leakage or condensation. The fluids therefore maintain their lubricating power and anti-corrosion performance even under these circumstances.

## Applications

Puma Tractor Transmission is recommended for the lubrication of all farm tractor original manufacturers components, except engines.

It has a varied additive package that protects parts against oxidation, wear, corrosion and other issues that may reduce equipment life.

Because of its characteristics it is considered as a triple action lubricant. It can also be used on industrial hydraulic equipment working under light to moderate conditions and lubrication in general.

Note: It is not possible for a single formulation to cover all manufacturers' requirements, although Puma Tractor Transmission covers the majority of them.

## Puma Tractor Transmission

Meets the requirements of the following specifications:

- API GL-4
- Caterpillar TO-2
- Deutz; / Allis Hydr Trans Fluid; / 25743 (PF-821 XL), 257541, & 246634 Hydr Trans Fluid
- FORD New Holland: M2C134D, M2C(A thru C), M2C86-(A thru C), M2C86-(A&B), M2C77-A, M2C53-A, M2C48-(B&C) & M2C41-B
- J.I Case/Case International: MS-1204, 1205, 1206 (Powergard PFT), 1207(Hy-Tran Plus), 1209 (Hy-Tran Plus), 1210, JIC-143, 144, 145 (TCH Fluid), & 185 (TFD Fluid)
- Allison: C-4, C-3
- John Deere: J20C, J20D, J14 (A,B,C JDT303), J20 (A,B, Hy-Gard), J21A, & J27
- Massey Ferguson: M1110, 1127(A&B), 1129A Permatran, Permatran-III, 1135, 1139 1141, 1143, 1145
- Oliver: Type 55, Type 5J, & Q1802
- Renk: Bus Automatic Trans Fluid
- Steiger: Hydr Trans Fluid
- Sauer Sunstrand/Danfoss: Hydro Static Trans Fluid
- White: Gear & Hydr Trans Fluid
- Eaton: Q-1705, 1722, 1766, 1766B (UTHF), 1802, & 1826
- ZF TE-ML03, TE-ML06
- Fiat-Hesston: AF-87
- I.H.C.: B5 & B-6 Hytran
- Volvo Wet-Brake
- Kubota: UDT Fluid
- Landini: Tractor Hydr Fluid
- Parker/Denison: (Pump only) HF-(0 thru 2)
- CNH MAT 3525,3526

## Typical Physical Characteristics

Property	Temp	Units	Test Methods	Results
Kinematic Viscosity	@ 100°C	cSt	ASTM D7279	10.24
Kinematic Viscosity	@ 40°C	cSt	ASTM D7279	62.79
Viscosity Index	-	-	ASTM D2270	151
Flash Point (COC)	-	°C	ASTM D92	235
Pour Point	-	°C	ASTM D97	-42
Density	@ 20°C	g/mL	ASTM D4052	0.8589

*These characteristics are typical of current product methods whilst future production will conform to Puma Lubricants specifications, variations in these physical characteristics may occur.*

## Health & Safety Environment

- This product is unlikely to present any significant health and safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contact with eyes and skin, use proper impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on health and safety is available on the appropriate Safety Data Sheet (SDS) which can be obtained from [sds.pumaenergy.com.au](https://sds.pumaenergy.com.au)

## Protect the Environment

- Take used oil to an authorised collection point. Do not discharge used or new oil into drains, soil or water.

## Additional Information

- Technical advice may be obtained from your Puma Energy Representative.