



# Pennzoil Long-Life Tractor Fluid

*Excellent protection for tractor hydraulics and transmissions, and quieter wet brake operation.*

Premium “universal tractor transmission oil” (UTTO) designed for use in transmissions, hydraulic systems, oil immersed brakes and other ancillary systems fitted to agricultural tractors and off-road equipment. Pennzoil Long-Life Tractor Fluid is recognised by leading agricultural equipment manufacturers and is suitable for use in most modern equipment.

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## Performance Features

- **Enhanced Protection**

Excellent anti-oxidation, anti-wear, anti-corrosion and anti-foam characteristics result from the use of the latest additive technology leading to greater reliability and reduced down time thus minimising cost and maximising utilisation.

- **Operator Comfort**

The excellent low temperature fluidity characteristics of **Pennzoil Long-Life Tractor Fluid** results in responsive hydraulic performance and smooth gearshift performance from cold starts. Friction modifying additives ensure smooth, noise-free operation of oil immersed brakes.

- **OEM Recognition**

**Pennzoil Long-Life Tractor Fluid** has been tested and approved by a wide range of equipment manufacturers.

## Applications

- **Agricultural Tractors Transmissions**

**Pennzoil Long-Life Tractor Fluid** has been evaluated against the latest requirements of leading tractor and transmission manufacturers including John Deere, Massey Ferguson, Ford-New Holland and GM Allison.

- **Hydraulic Systems**

**Pennzoil Long-Life Tractor Fluid** is ideally suited for hydraulic systems of tractors and ancillary equipment. **Pennzoil Long-Life Tractor Fluid** is formulated using specially selected additives and high quality base oils to provide good low temperature fluidity and wear protection.

- **Oil Immersed Brakes**

Special friction modifying additives are included in **Pennzoil Long-Life Tractor Fluid** to ensure optimum performance of oil immersed brakes whilst minimising brake noise. **Pennzoil Long-Life Tractor Fluid** is recommended for most wet brake systems fitted to agricultural tractors.

**Warning:** Not to be used as an engine oil

## Performance Specifications

API Gear Performance	API GL-4
Ford New Holland	M2C-134D
FNHA-	2-D.201.00
John Deere	JDM-J20C
Massey-Ferguson	M1143
Volvo	WB 101
ZF	TE-ML 03E, 05F
Caterpillar	TO-2

## Recommendations

**Pennzoil Long-Life Tractor Fluid** is also recommended for use in Case equipment where fluids meeting MS 1207 are specified. **Pennzoil Long-Life Tractor Fluid** can be used when a SAE J 306 85W grade is recommended.

## Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Pennzoil representative.

## Protect the environment

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

## Advice

Advice on applications not covered in this leaflet may be obtained from your Pennzoil Representative.

## Typical Physical Characteristics

SAE Viscosity Grade		SAE J 300	10W-30	
Kinematic Viscosity		ISO 3104		
	at 40 °C		mm <sup>2</sup> /s	70.4
	at 100 °C		mm <sup>2</sup> /s	11.2
Viscosity Index		ISO 2909	151	
Density at 15 °C	kg/m <sup>3</sup>	ISO 12185	884	
Flash Point COC	°C	ISO 2592	220	
Pour Point	°C	ISO 3016	-42	

These characteristics are typical of current production. Whilst future production will conform to Pennzoil's specification, variations in these characteristics may occur.