



Maxtron[®] Power Transmission Fluid MV

Full-Synthetic, Multi-Grade, Off-Highway Transmission Oil

General Description

Maxtron[®] Power Transmission Fluid MV is a multi-viscosity heavy duty off-highway transmission fluid for use under wide and extreme temperature ranges.

This multi-viscosity, all season product can be used year-round instead of varying straight weight oils for power shift transmissions, oil immersed brakes, final drives and hydraulic systems* meeting the rigorous performance requirements of Caterpillar TO-4M / TO-4, Allison C-4 and other off-road equipment.

Maxtron Power Transmission Fluid MV contains carefully selected synthetic base oils assuring superior oxidation, and thermal stability for long oil life while the specialized additive system provides additional oxidation resistance, balanced frictional performance, wear protection and maximum power transfer during operation. There are additional additives to enhance the shear stability, cold temperature performance, rust, corrosion and anti-foam protection, along with outstanding compatibility for seals and clutch material.

Maxtron Power Transmission Fluid MV technology has been extensively field-tested for use in Caterpillar and other construction equipment delivering top level performance.

* In specific equipment where TO-4M is recommend by Caterpillar. The recommended OEM viscosity grade should always be followed for a specific machine's oil reservoirs.

This product cannot be used as a THF/Wet brake oil in agriculture equipment. Maxtron[®] THF+ or Qwiklift[®] HTB[®] are designed for this application.

Features and Benefits

- **All-Season Performance:** Assures ease of oil pumpability during extreme temperature changes, while improving lubrication and operating efficiency at extremely low temperatures especially on equipment with electronic controls.
- **Improved Clutch Life:** Balanced static/dynamic friction provides clutch durability and maximum power transfer throughout the service interval giving greater equipment productivity.
- **Wear Protection:** Outstanding shear stability, viscosity retention and increased film strength. Reduced wear on gears, bearings, and clutches to give longer transmission life and less downtime.
- **High-Temperature Protection:** Excellent thermal, oxidation, sludge, corrosion, and deposit protection from increased temperatures, severe service and extended oil life.

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Typical Applications

Maxtron® Power Transmission Fluid MV meets or exceeds performance requirements and can be used in applications where manufacturers recommend the use of TO-4M/TO-4/C-4 or All-Season Fluid:

- CAT TO-4M/TO-4*, TDTO-TMS™
- Komatsu KES 07.868.1
- Allison C-4
- ZF Power Shift TE-ML 07F, 03C
- Euclid, Terex, Dresser

*CAT introduced TO-4 in 1991 making TO-2 obsolete

Typical Customers

Owners and operators of:

- Heavy duty construction equipment
- Construction equipment dealers
- Construction equipment repair shops
- Road building, excavating, mining, and quarrying operations

Typical Properties

Viscosity	Multi-Grade SAE 10W-40
API Gravity / lbs./gal.	31.9 / 7.21
Flash Point, °C / °F	223 / 434
Viscosity, cSt @ 40°C	106
@ 100°C	14.5
Viscosity Index	141
Pour Point, °C / °F	-36 / -33
Brookfield cP@ -30°C	31,000
MRV cP@-30°C	28,000
KRL Shear %, (20 hour)	5.5
TBN	7.9
Sulfated Ash, wt%	1.2
Calcium, wt%	.31
Zinc, wt%	.124

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.