

TRIA X ULTRA TRANS MV TO-4M

MULTI-VISCOSITY POWERSHIFT TRANSMISSION TO-4M DRIVE TRAIN AND HEAVY DUTY TRANSMISSION FLUID

TRIA X ULTRA TRANS MV TO-4M is a multi-viscosity top tier transmission fluid designed for heavy duty Powershift transmissions. It exceeds the requirements of Caterpillar TO-4 to TO-4, Allison C-4 and ZF- TE-ML03 for use in heavy duty applications such as torque converters, final drives, transmissions, wet-brake systems and hydraulic systems where a Caterpillar TO-4 or TO-4 M specification is required. This product is formulated with a blend of synthetic and mineral base oils and a premium, custom built additive base to provide outstanding durability and longevity in real world, severe service work conditions such as mines, trucking, city buses, construction.

The significant advantage of this fluid versus the SAE 10W, SAE 50 and SAE 30 oils, is its ability to function over a very wide ambient temperature range, without compromising performance characteristics, but quite the opposite - improving upon conventional fluid performance levels. It provides both exceptional high temperature performance and stability, film thickness and strength, as well as exceptionally low temperature pumpability for exceptional wear protection in high load severe service conditions. TRIA X ULTRA TRANS TO-4 M is exceptionally well fortified with additives to guard against gear wear, scuffing, rust, corrosion, foaming and oxidation while providing superb power transfer characteristics.

PERFORMANCE

- Replaces all SAE 10W, 30 and 50 viscosity grades TO-4 fluids significantly reducing inventory requirements
- Extremely wide operating temperature range, eliminating the need to change fluids based on seasonality
- Exceptionally long life, allows significant downtime savings vs conventional TO-4 fluids
- Compatible with a wide range of heavy-duty transmission found in construction equipment and trucks
- Exceptional oxidation stability, detergency, anti-foaming characteristics
- Excellent wear prevention in high load, severe service applications, in all types of work environments and temperatures
- Unmatched shear stability, maintains an optimal oil film to prevent gear wear and scuffing

PERFORMANCE HIGHLIGHTS



**HEAVY DUTY POWERSHIFT
TRANSMISSIONS**



**HEAVY DUTY DRIVE TRAINS
AND FINAL DRIVES**



TORQUE CONVERTERS



**HEAVY DUTY HYDRAULIC
SYSTEMS**

APPLICATIONS

TRIAX ULTRA TRANS TO-4 M is designed for hydraulic systems, transmissions, final drives and is NOT to be used as an engine oil.

To be used in applications requiring a TO-4 or TO-4M specification fluid and a SAE 10, SAE 50 or SAE 30 viscosity fluid. It replaces II the viscosity grades.

SPECIFICATIONS

- Caterpillar TO-4M, TO-4
 - ZF TE-ML03
 - Allison C3
 - Komatsu KES 07.868.1
 - JCB Heavy Duty Transmissions
 - VOLVO
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CHEMICAL PROPERTIES

TEST CRITERIA

SPECIFIC GRAVITY @ 60F	0.87
KINEMATIC VISCOSITY @ 40C	114.8
KINEMATIC VISCOSITY @ 100 C	14.6
VISCOSITY INDEX	131
FLASH POINT C(F)	233 (451)
POUR POINT C(F)	-39 (-38.2)

Small deviations from these results are expected during the manufacturing process and do not affect product performance.

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