

# MEGA TO-4

*Lubricant with advance-performance technology for transmissions and final drives of construction vehicles.*

Specially formulated in order to provide operators in the sector, the maximum reliability and protection for modern transmissions, MEGA TO-4 meets the most stringent requirements for modern final drives, transmissions, oil bath brakes and hydraulic systems of which they are equipped with the earth moving vehicles.

## Applications & Benefits

### - Compatibility

MEGA TO-4 ensures maximum compatibility with ferrous and non-ferrous materials used in modern oil bath transmissions and brakes. The particular additives prevent slippage phenomena and annoying noises deriving from vibrations until the next oil change.

### - Anti-Wear Protection

The high shear stability not deriving from the viscosity index improvers, guarantees a negligible variation of viscosity for the whole life cycle of the lubricant and consequently an anti-wear protection of the strongly loaded components.

### - Start&Stop

The lubricant thus formulated, is able to meet the fluidity requirements necessary for starting at low temperatures, while ensuring maximum protection of the lubricating components.

### - Improved Protection

It guarantees a high level of protection of the components which by nature are subject to the most critical issues, such as the friction discs in bonzo (powershift transmissions), gears of final drives and differentials.

### - Versatilità

MEGA TO-4 is recommended for earthmoving equipment of the most important OEM's, including Caterpillar, Komatsu-Dresser, Komatsu and for distributed transmissions from Eaton, ZF, etc.

## Technical Specifications

### - Exceeds the specification below:

Caterpillar TO-4	Komatsu KES 07.868.1
Allison C4 (off-road)	Caterpillar TO-2(obsolete)
Eaton-Fuller	Dana
Euclid	Vickers M-2950-S
Tremac/TTMIL-PRF-2105E	
ZF TE-ML 02B, 05B	ZF TE-ML 07A
ZF TE-ML 12B, 12L	ZF TE-ML 12N, 16F
ZF TE-ML 17B, 19C	
ZF TE-ML 21B	
DD DFS93K219.01	
ARVIN MERITOR 0-76-N	



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TRANSMISSION OILS

Remember to always check the use and maintenance manual for the correct selection of the reference transmission fluid for your vehicle.

\* for further information please contact the Technical Service.

## Chemical-Physical Characteristics

Test	Method	MEGA TO-4		
SAE Grade	-	*10W*	30	50
Appearance	Visual	C&B	C&B	C&B
Density @ 15°C, Kg/dm <sup>3</sup>	ASTM D 4052	0.875	0.885	0.900
Viscosity	ASTM D 445	45.5	100.0	190.0
cSt @ 40°C			11.5	18.0
cSt @ 100°C			7.2	
Viscosity Index - Unit	ASTM D 2270	110	102	103
Flash Point °C	ASTM D 92	220	230	238
Pour Point, °C	ASTM D 97	-30	-30	-27

NOTE: The above values are "typical" relative to the normal production tolerance and do NOT constitute a specification.

\* The SAE 10W gradation is available on request and for minimum lots. For more information contact customer service.\*

## Storage, Health & Environment

### - Storage & Health

It is recommended to store the MEGA TO-4 Lubricant indoors. If, by necessity, the storage is carried out outdoors, it is recommended to place the stems, possibly under a roof, in a horizontal position and if kept in a vertical position cover them with a lid to avoid water infiltration. It is advisable not to store the packages at temperatures above 60 ° C or directly in the sun as it is good to keep them in places not subject to frost.

MEGA TO-4 does not present health effects when used correctly, applying normal personal hygiene standards.

### - Environment

Do not discharge new and / or exhausted lubricant into the sewage system, soil or watercourses. The used lubricant must be delivered to an authorized collection point.

## Additional information

### - Safety data Sheet

It is supplied separately and must be considered for the relative information or can be easily downloaded from the website [www.rilub.it](http://www.rilub.it)

For further information contact the technical service:



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