



## Technical Data Sheet

# 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.

#### - Versatility

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.

### Specifications & Approvals

#### - Exceeds the specifications listed 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	

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		
		10W	30	50
SAE Grade	-	10W	30	50
Appearance	Visual	Clear	Clear	Clear
Density @ 15°C, kg/dm <sup>3</sup>	ASTM D 4052	0.870	0.880	0.900
Viscosity cSt @ 40°C cSt @ 100°C	ASTM D 445	40.0 7.0	100.0 11.0	190.0 19.0
Viscosity Index - Unit	ASTM D 2270	120	100	100
Flash point, °C	ASTM D 92	220	230	240
Pour point, °C	ASTM D 97	-30	-30	-24

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

## 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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