

## LUBRAL HYDRAULIC MF SAE 10W TO<sub>4</sub>

### TO<sub>4</sub> TRANSMISSION LUBRICANT

#### DESCRIPTION

Lubra MF SAE 10W TO-4, is manufactured with high quality oils and an advanced additive package to satisfy the requirements of construction, quarry and mining equipment operating in severe conditions. These products offer a clear performance advantage over the use of previously used mixed fleet motor oils and lubricants to meet Caterpillar TO-2.

This line of products is exclusively designed to optimize the performance of transmissions in change of power, reducers and final drives. In hydraulic applications, they provide maximum protection even in high pressure systems.

#### BENEFITS

- Long equipment life: Special additives help protect metal surfaces from scratches and wear, even under severe, high-temperature operating conditions.
- Smooth operation: Excellent friction control helps prevent slippage of the
- clutch and offers a quiet and efficient action of the transmission and brakes while minimizing wear.
- Weather and Storage Protection: Protects against rust and corrosion of high-precision parts and finish when operating in humid conditions and during periods of storage.
- Compatible with modern clutch and elastomer materials.
- Excellent thermal and antioxidant stability.
- Excellent protection against foaming.

#### APPLICATIONS

Meets or exceeds the requirements, Caterpillar TO-4, Komatsu Micro-Clutch and Allison C-4.  
At normal ambient temperatures and for mobile hydraulic systems SAE 10W will be used.

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### CHARACTERISTICS

TESTS	TEST METHOD	TYPICAL VALUE
SAE Viscosity Grade	SAE J306	10W
Color	ASTM D1500	3.0
Appearance	Visual	Brilliant
Density @20°C, g/ml	ASTM D1298	0.87
Kinematic Viscosity @40°C, cSt	ASTM D445	42
Kinematic Viscosity @100°C, cSt	ASTM D445	6.8
Viscosity Index	ASTM D2270	118
Flash Point, COC, °C	ASTM D92	218
Copper Corrosion	ASTM D130	1 b
TBN, mg KOH/g	ASTM D2896	7
Foaming, ml/min, máx.	ASTM D892	
Sequence I		20/0
Sequence II		50/0
Sequence III		20/0

Typical Properties are those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are expected during normal manufacturing and at different mixing locations. The information in this document is subject to change without notice.

Product availability may vary depending on the location. For more information, you can contact us at [venta@lubral.com](mailto:venta@lubral.com)