

TECHNICAL PRODUCT SHEET

LEDA M CR

ISO 220, 320, 460



DESCRIPTION

LEDA M CR series are specialized circulation-system lubricants designed for use in MORGOIL systems. Their formulation is based on a blend of high-quality paraffinic mineral base oils fortified with zinc-free anti-wear additives. The series is characterized by excellent oxidation stability and outstanding water and air separation properties at operating temperatures. It provides strong protection against rust and corrosion and does not contain any extreme-pressure (EP) additives.

APPLICATIONS

LEDA M CR series is suitable for MORGOIL circulation systems manufactured by Morgan, where water contamination is a common issue. It is recommended for lubrication of circulation and hydraulic systems, vacuum pumps, bearings, and gear reducers that operate with a circulating lubrication system under moderate pressure and temperature conditions.

SPECIFICATIONS

DIN	51524 Part 1 HL	MORGOIL	Lubricant Specification Revision 1.1 (01/2005)
DIN	51517 Part 1 CL	MORGOIL	Advanced Lubricant 1.1
ISO	6743-4 (ISO-L-HL)	ASTM	D4304 Type I
ISO	6743-6 (ISO-L-CKB)	AGMA	955005-F16 (R&O)
ISO	11158 HL		

PROPERTIES

LEDA M CR feature a high viscosity index and excellent demulsibility, ensuring rapid and effective separation from water. They offer strong resistance to foam formation and provides reliable protection against rust and oxidation, supporting clean, stable, and long-lasting system performance.

BENEFITS

LEDA M CR perform reliably across temperature variations and ensure rapid water separation, allowing uninterrupted system operation over long intervals. They support smooth and stable system performance while protecting metal components and extending overall equipment life.



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PHYSICAL-CHEMICAL CHARACTERISTICS

LEDA M CR	METHOD	ISO 220	ISO 320	ISO 460
Density at 15°C, g/cm ³	ASTM D4052	0.890	0.891	0.890
Viscosity, Kinematic (cSt) 40°C	ASTM D445	220	320	460
Viscosity, Kinematic (cSt) 100°C	ASTM D445	19.1	23.1	30.0
Viscosity index	ASTM D2270	97	96	95
Flash point, COC, °C	ASTM D92	264	274	280
Pour point, °C	ASTM D97	-18	-15	-15
Copper corrosion	ASTM D 130	1a	1a	1a
Foam Tendency / Stability, ml				
Sequence I	ASTM D892	10 / 0	10 / 0	0 / 0
Sequence II		20 / 0	20 / 0	20 / 0
Sequence III		10 / 0	10 / 0	0 / 0
Rust prevention				
A. Distilled water	ASTM D665	Pass	Pass	Pass
B. Synthetic sea water				
Demulsibility, min.	ASTM D1401	15	15	20
Demulsibility				
- Free water, ml	ASTM D2711	>30	>30	>30
- %Water in oil		<1.5	<1.5	<1.5
- Emulsion, ml		<1.0	<1.0	<1.0

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

