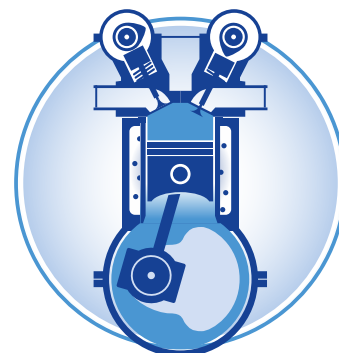


Disola Long Life 10W-40

High performance Long Life engine oil with Low SAPS technology.



APPLICATIONS	FEATURES AND BENEFITS
MAN ES 175D Engines.	Approved for extended drain Intervals of 4000 hours (< 0.1 % fuel sulfur content), and 2000 hours (0.1 - 0.5 mg/kg sulfur fuel) allowing for significant reduction in LO usage, and lowering the environmental impact.
Engines requiring long drain intervals.	Disola Long Life 10W-40 is formulated using premium quality base oil together with latest generation additives that provide enhanced piston cleanliness and lubrication performance allowing longer drain intervals.

VALIDATIONS AND APPROVALS	MEETS THE REQUIREMENTS OF	INTERNATIONAL STANDARDS
✓ MAN ES 175D Long Drain Intervals	✓ MAN ES M 3477 / M 3271-1	✓ API CK-4/CJ-4/CI-4 Plus/CI-4/CH-4
✓ MAN ES M 3775	✓ Caterpillar ECF-3/ECF-2/ECF-1a	✓ ACEA E6/E7/E8/E9/E11
✓ MTU Category 3.1		✓ JASO DH-2
✓ Volvo Penta VDS.4-5		
✓ Cummins CES 20086		

TECHNICAL DATA : Disola Long Life 10W-40			
CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
Density at 15°C	ASTM D 4052	kg/m ³	867
Kinematic Viscosity at 40°C	ASTM D 445	mm ² /s	96
Kinematic Viscosity at 100°C	ASTM D 445	mm ² /s	14.2
Viscosity Index	ASTM D 2270	—	162
Flash Point (COC)	ASTM D 96	°C	> 230
Pour Point	ASTM D 92	°C	- 45
Sulfated Ash	ASTM D 874	% m/m	< 1.0
BN	ASTM D 2896	mgKOH/g	10

*The specifications above are for illustrative purposes and communicated for information only.

CUSTOMER BENEFITS

✓	High performance “Low SAPS” (Low content of Sulphated Ash, Phosphorus and Sulphur) oil for high speed applications.
✓	Thanks to its “Low SAPS” technology, Disola Long Life 10W-40 is designed for the latest Diesel engines equipped with post-treatment systems, such as Diesel particulate filters (DPF).
✓	Disola Long Life 10W-40 exhibits excellent thermal stability ensuring efficient lubrication of hot engine parts during severe and long working periods.
✓	The product belongs to the new “very long drain interval” engine oil generation.
✓	Best in class performance, with the longest drain intervals for MAN ES 175D engines.

GENERAL RECOMMENDATIONS

COMPATIBILITY

Please consult your Lubmarine Lubrication Engineer should you have any questions.

STORAGE

This product should be stored under cover in clean, dry conditions and protected from frost.

COMPLIMENTARY PRODUCTS AND SERVICES

✓	Glacelf Auto Supra – Very long life antifreeze based on high purity monoethylene glycol and organic corrosion inhibitors.
✓	Glacelf MPG Supra – Antifreeze based on monopropylene glycol and organic corrosion inhibitors for heating and cooling circuits.
✓	WT Supra – Innovative and environmentally friendly cooling system inhibitor concentrate.
✓	LubDiag – Oil Analysis – Laboratory based used oil analysis program.
✓	LubInsight – Suite of onboard testing equipment.
✓	LubSkills – Lubmarine Engineers are on hand at worldwide locations to assist with lubrication concerns.
✓	Lube On Ship – Visualize your lubricants needs aboard Lubmarine’s innovative virtual vessel. lubmarine.totalenergies.com/lube-on-ship