

**DESCRIPTION**

• MD Oils SAE 15W-40 API CI-4/SL is a premium, high-performance multigrade diesel engine oil formulated with high-quality base oils and advanced additive technology. It is designed to provide outstanding engine protection, durability, and reliable performance under severe operating conditions.

**APPLICATIONS**

• Recommended for both modern diesel engine technologies and heavy-duty applications. It is highly suitable for passenger cars, SUVs, light trucks, and vans, as well as high-load commercial vehicles, buses, construction equipment, and industrial machinery operating under demanding conditions.

**Performance Features and Benefits**

• Superior wear and deposit control: Provides exceptional protection against engine wear, sludge, and harmful deposits.  
 • Excellent thermal and oxidation stability: Maintains oil integrity and prevents high-temperature degradation.  
 • Enhanced engine cleanliness: Keeps engine internals exceptionally clean, promoting long-term engine durability.

**Recommendations / Specifications**

**International Standards:**

• API CI-4/SL, ACEA E7-22, Global DHD-1, JASO DH-1.

• **OEM Specifications:** MB 228.3 (DTFR 15B110), Volvo VDS-3, MAN M 3275, MTU Type 2.0, Renault RLD-2,

Cummins CES 20078/20077, Mack EO-N/EO-M+, Caterpillar ECF-2/ECF-1a, DDC 93K215, Deutz DQC-III/DQC-II, ZF TE-ML 04P / 07D.

• Meets the stringent quality requirements of most leading diesel engine manufacturers across the USA, Europe, Africa, Japan, and Korea.



• Stable viscosity profile: Ensures reliable oil film thickness and stable viscosity at both high and low temperatures.  
 • Cost efficiency: Helps reduce overall maintenance costs and significantly extends engine service life.

**Typical Characteristics**

Properties	Unit	Test Method	Typical Values
Viscosity Grade	-	SAE J300	SAE 15W-40
Density @ 15°C	g/cm <sup>3</sup>	ASTM D4052	0.876
Cold Cranking Viscosity(CCS) @ -20°C	mPa.s	ASTM D5293	6800
Kinematic Viscosity @ 40°C	cSt	ASTM D445	113.55
Kinematic Viscosity @ 100°C	cSt	ASTM D445	15.15
Viscosity Index	-	ASTM D2270	139
Flash Point (COC)	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-38
Total Base Number	mg KOH/g	ASTM D2896	11.88
Evaporation Loss	%wt.	ASTM D5800	6.4

• Note: The typical characteristics shown in this document are representative of current production. While future production will conform to MD Oils specifications, variations in these characteristics may occur within normal manufacturing tolerances.

• Health & Safety: Based on available information, this product is not expected to cause adverse health effects when used for its intended application and in accordance with the recommendations provided in the Safety Data Sheet (SDS). SDS are available on request through your local sales office or via our website.

This product should not be used for applications other than its intended purpose.

When disposing of used product, take care to protect the environment and comply with local regulations.