



PRODUCT DATA SHEET

Engine oil

CIM Ultra SAE 15W40 LE (Low Emission) CK4 /E11 Heavy Duty Engine Oil

Performance Overview

High performance diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and Aftertreatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs). Fully backwards compatible, C.I.M Ultra 15W40 LE will also deliver the same exceptional performance in older conventional engines. As a result, it meets or exceeds the requirements of the API CK-4, CI-4 PLUS and CH-4 service categories as well as key Original Equipment Manufacturer (OEM) requirements.

Low emissions and reduced costs

Protecting the performance of your exhaust emissions control systems is not only important to ensure that your vehicles comply with legislative requirements, but also to ensure efficient operations. For example, blocked diesel particulate filters (DPF) can actually increase fuel consumption. C.I.M Ultra 15W40 LE CK-4 is formulated with reduced levels of ash and sulphur to help maintain the efficiency of the latest and future vehicle technologies.

Oxidation Protection

- Improves oxidation performance by over 60% compared to API CJ-4 technology

Wear Protection

- Exceptional Cummins ISB wear performance demonstrated at CK-4 HTHS levels
- Outstanding cylinder, bearing and ring wear results (Mack T-13)
- Outstanding cross-head and injector screw weight loss (Cummins ISM)
- Excellent bore polish and cylinder wear results (MB OM501LA)

Oil Consumption Control

- Demonstrated excellent oil consumption control in Caterpillar C13 and Mack T-13

Deposit Protection

- Outstanding piston deposit performance (Caterpillar 1N)
- Excellent piston cleanliness and engine deposits performance

CIM Ultra SAE 15W40 LE CK-4 performance levels:

Cummins CES 20086	Detroit DFS 93K222	Mack EOS-4.5
Volvo VDS-4.5	Ford WSS M2C171-F1	Renault RLD-4
MTU Type 2.1	DTFR 15C100 /MB 228.31	MAN M3575
DQC III – 10- LA	CAT ECF-3	API CK-4,CJ-4,CI-4 PLUS
API SN	Jaso DH-2	Iveco T2 E7
ACEA E9 / E11	John Deere Tier 4	

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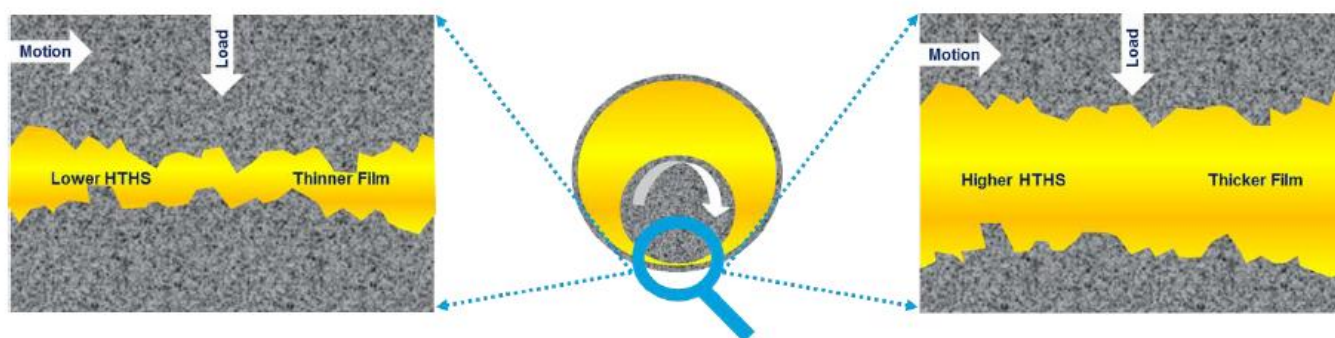
Technical Data: CIM Ultra SAE 15W40 LE CK4/SN Engine Oil

SAE (Society of Automotive Engineers) Grade	15W40
Viscosity (cSt) Index ASTM D 2270	142
Viscosity (cSt) at 40°C	115
Viscosity (cSt) at 100°C	15.3
Density at 15°C ASTM D 4052	0.876 Kg/l
Pour Point in °C ASTM D 97	-35
Flash Point in °C ASTM D 92	225
TBN mg (KOH/g, ASTM D 2896)	10
Sulphated ASH (wt%, ASTM D 874)	1.0

High Temperature High Shear Rate Viscosity (HTHS)

Oil resistance to flow at high temperature under high load/pressure

Similar to environment that exists in journal bearing



- Higher risk of metal/metal contact and **wear**
- Positive impact on **fuel economy**

- Reduced risk of metal to metal contact and **wear**
- Negative impact on **fuel economy**

CIM Ultra 15W40 LE CK-4

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