

**15W40 ENGINE OIL**  
**API CI4/SL****DESCRIPTION**

High performance, heavy duty diesel engine oil is formulated for use in a wide variety of European, Japanese and North American diesel and petrol engines operating under the most severe service conditions. Designed to provide improved engine protection and increased oil life. It is compatible with low-emission engine technology used in road transport, construction, mining and many other industries.

**APPLICATION**

- Modern high power, heavy duty diesel engines in mixed fleets of European, Japanese and North American manufacturers in both on-road and off-highway applications.
- Mixed fleets of diesel and petrol vehicles. High-tech, electronically controlled and low emission engines.
- Normally aspirated, turbocharged and supercharged engines with or without intercooling.
- EGR engines experiencing high soot loadings.
- Agricultural equipment, marine and stationary engines.

**ADVANTAGES**

- Excellent protection against engine wear and bore polishing.
- Improved engine cleanliness and reduced piston deposits.
- Extended oil drain intervals and less maintenance costs, even in older engines.
- Reduced downtime and prolonged engine life.
- Universal engine oil for cars, trucks and off-road applications.

**PERFORMANCE**

Meets or exceeds:

- ACEA E7-08
- API CI-4, CG-4, CF-4, CF, SL
- JASO DH-1
- GLOBAL DHD-1
- ALLISON C4
- CATERPILLAR ECF 1A
- CUMMINS CES 20076, 20077, 20078
- DEUTZ DQC-III
- MACK EO-M, EO-M PLUS
- MAN M 3275
- MERCEDEZ BENZ 228.3
- MTU TYPE-2
- RENAULT TRUCK RLD-2
- VOLVO VDS-3
- CASE MS 1121

**TYPICAL PHYSICAL CHARACTERISTICS**

Property	Unit	SAE 15W40 CI4/SL	Method
Density @ 15°C	KG/L	0.89	ASTM D4052
Kinematic Viscosity			
Viscosity 40°C	cSt	±120	ASTM D445
Viscosity 100°C	cSt	12.5 – 16.3	ASTM D445
Viscosity Index (Min)	VI	130	ASTM D2270
Base No. mgKOH/g		10	ASTM D2896
20 (ASTM D 2602)	°C	11	ASTM D4739
Sulphated	m%	1.45	ASTM D874
Flash Point (Min)	°C	210	ASTM D92
Pour Point (Max)	°C	-31	ASTM D97
Zinc (Mass)	m%	0.12	ASTM D4951

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