



Research & Development

PRODUCT DATA SHEET

AXCL XD15 DIESEL ENGINE OIL API CK-4 SAE 15W40

PRODUCT DESCRIPTION

AXCL XD15 DEO API CK-4 SAE 15W-40 is, high performance, heavy duty diesel engine oil that helps extend engine life and improve fuel economy in modern diesel engines operating in severe applications. This product meets the API CK-4 specification utilizing state-of-the-art technology to deliver exceptional performance in modern low emission engines, including those with Exhaust Gas Recirculation (EGR) and After treatment systems with Diesel Particulates) a Filters used in refrigeration(DPF' units and older, well-maintained engines. CK-4 SAE 15W-40 is recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, forestry, construction, and agricultural industries. API CK-4 SAE15W-40 also meets the API SN specification for gasoline engines.

PERFORMANCE LEVEL

API CK4, API CJ4, API SN, CAT ECF-3, Ford WSS -M2C171-F1

MACK -4.5, CUMMINS CES 20086, Detroit DIESEL DDC93K222 Volvo VDS-4 .5, Renault VI RLD-4, ACEA E7-16, ACEA E9-16 MB 228.31, MAN 3575, MTU 2.1, DEUTZ DQC III-10LA

APPLICATIONS

- On-highway engines operating in both high speed/high load and stop-and-go conditions
- Off-highway engines operating in severe low speed/heavy load conditions
- High performance gasoline engines and mixed fleets Refrigeration units

BENEFITS & ADVANTAGES

One engine oil for mixed fleet operations, provides outstanding wear protection, helps keep engines clean, Excellent Resistance to sludge build-up and high temperature deposits, Wear protection and reduced oil consumption; maintains Viscosity in severe, high temperature service. Improved fuel economy, Easy engine start-up and wear protection, Helps to improve operating efficiency and control overall cost

SPECIFICATION & TECHNICAL PARAMETER

#	Test	Method	Result
1.	Viscosity Grade	SAE	15W40
2.	Appearance	Visual	Bright & Clear
3.	Color	ASTM D 1500	L 3.5
4.	Kin. Viscosity @ 40 °C, cSt	ASTM D 445	99.31
5.	Kin. Viscosity @ 100 °C, cSt	ASTM D 445	15.10
6.	Viscosity Index	ASTM D 2270	160
7.	Density @ 15 °C, g/cc	ASTM D 1298	0.86
8.	Total Base Number, TBN	ASTM D2896	10.0
9.	Foam Sequence I, II, III, ml/ml	ASTM D 892	0/0/0
10.	Flash Point, °C	ASTM D 92	≥240
11.	CCS at -20°C, cP (7000 max)	ASTM D5293	3000
12.	Pour Point, °C	ASTM D 97	≤-45

*Technical data provided here is for reference only. Minor variations in product typical test data are to be expected.

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