

VIRO-TEC Fully Synthetic Diesel Engine Oil SAE 15W40 CK-4

Product Description

VIRO-TEC 15W40 CK-4 is a premium fully synthetic heavy-duty engine oil engineered to deliver exceptional performance in modern and legacy diesel engines. With advanced formulations incorporating Inno-Boost Technology, it ensures enhanced oxidation stability, soot control, and long oil life, even under severe operating conditions. VIRO-TEC 15W40 CK-4 is compatible with engines featuring advanced after-treatment systems such as Diesel Particulate Filters (DPFs), Selective Catalytic Reduction (SCR), and Exhaust Gas Recirculation (EGR). It is backward compatible and suitable for a mixed fleet of vehicles.

Application

- Designed for both on-highway and off-highway applications, including trucking, agriculture, mining, and construction.
- Compatible with modern low-emission diesel engines (Euro VI, V, IV standards) and older engine technologies.
- Recommended for engines running on ultra-low sulfur diesel and biodiesel blends up to B20.

Performance Benefits

- **Superior Wear Protection:** Advanced anti-wear additives ensure long engine life by protecting critical components under extreme pressures.
- **Oxidation Stability:** Prevents oil thickening, extends oil life, and supports longer drain intervals.
- **Exceptional Soot Control:** Minimizes deposit build-up and maintains engine cleanliness.
- **Fuel Efficiency:** Reduces oil consumption and improves low-temperature flow for better startup protection.
- **Low SAPS Technology:** Ensures compatibility with sensitive after-treatment systems, protecting DPFs and SCRs.
- **Wide Compatibility:** Suitable for mixed fleets, reducing inventory costs.

Specifications & Approvals

Performance Standards:

- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SN
- ACEA E7, E9, E11
- JASO DH-2;

OEM Approvals:

- Cummins CES 20086, 20081
- Volvo VDS-4.5, VDS-4, VDS-3
- Mack EOS-4.5, EO-O Premium Plus
- Renault Trucks RLD-3
- DQC IV-18 LA
- Ford WSS-M2C 171-F1
- Caterpillar ECF-3

Typical Properties

Property	Method	Units	Value
Density @ 15°C	ASTM D1298	kg/m ³	0.8536
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	102.6
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	15.21
Viscosity Index	ASTM D2270	-	156
Pour Point	ASTM D97	°C	-39
Flash Point (COC)	ASTM D92	°C	240
Sulfated Ash	ASTM D874	% wt	0.56
Total Base Number (TBN)	ASTM D4739	mg KOH/g	10.15

Storage & Handling

- Store in a cool, dry place away from direct sunlight and extreme temperature fluctuations.
- Avoid prolonged exposure to moisture and contaminants by keeping the container tightly sealed.
- Follow all local regulations for proper disposal and recycling of used oil.

