

VIRO-TEC Fully Synthetic Diesel Engine Oil SAE 5W40 CJ-4/SM

Product Description

VIRO-TEC 5W40 CJ-4 is a premium, fully synthetic diesel engine oil designed for advanced performance in modern high-speed engines with after-treatment systems. Formulated with "low-SAPS" technology, it ensures compatibility with Diesel Particulate Filters (DPFs), Selective Catalytic Reduction (SCR), and Exhaust Gas Recirculation (EGR) systems. This oil delivers robust protection, extended oil life, and superior cleanliness under severe operating conditions.

Application

- Heavy-duty diesel engines (turbocharged or naturally aspirated) in trucks, buses, and construction equipment.
- Mixed fleets operating under high-speed, high-load conditions.
- Vehicles equipped with advanced emissions control systems such as DPF, SCR, or EGR.
- Suitable for engines operating in extreme temperatures, offering reliable cold starts and stable high-temperature performance.

Performance Benefits

- **Reduced Emissions:** Low-SAPS formulation protects DPFs and catalytic systems, extending their lifespan.
- **Extended Oil Life:** Advanced oxidation resistance for extended drain intervals.
- **Enhanced Wear Protection:** Stable oil film ensures engine durability under extreme loads and intensive operating conditions.
- **Wide Operating Range:** Excellent viscosity stability allows performance across a broad temperature range.
- **Fuel Efficiency:** Reduces internal friction for optimized engine performance and fuel economy.
- **Outstanding Cleanliness:** Advanced detergents and dispersants control soot and deposits for prolonged engine life.

Meets and Exceeds

API Standards:

- CJ-4
- CI-4
- CI-4 Plus
- SM

ACEA:

- E9

OEM Approvals:

- CATERPILLAR ECF-2/3
- CUMMINS CES 20081
- DETROIT DIESEL 93K218
- MACK EO-O PP07
- MAN M3575
- MERCEDES-BENZ 228.31
- MTU Type I/II
- RENAULT RLD-3
- VOLVO VDS-4

Typical Properties

Property	Method	Value
SAE Grade	SAE J300	5W40
Density @ 15°C (g/cm ³)	ASTM D4052	0.8478
Kinematic Viscosity @ 40°C	ASTM D445	88.55 mm ² /s
Kinematic Viscosity @ 100°C	ASTM D445	15.15 mm ² /s
Viscosity Index	ASTM D2270	181
Total Base Number (TBN)	ASTM D2896	10.50 mg KOH/g
Pour Point	ASTM D97	-39 °C
Flash Point	ASTM D92	230 °C
CCS (-25)	ASTM D5293	5320 mPa.s (cP)



Health, Safety, and Environment

- Avoid prolonged or repeated contact with used oil. Wash exposed skin thoroughly after handling.
- Dispose of used oil responsibly at authorized collection points.
- For further guidance, refer to the product's Safety Data Sheet (SDS).

Storage and Handling

- Store in a cool, dry location away from direct sunlight and extreme temperatures.
- Keep containers tightly closed to prevent contamination.

