

VIRO-TEC Fully Synthetic Diesel Engine Oil SAE 5W40 CK-4/SN

Product Description

VIRO-TEC 5W-40 CK-4/SN is a modern, premium low-friction motor oil based on advanced synthetic technology. It provides exceptional protection against wear, minimizes oil and fuel consumption, and ensures excellent engine cleanliness. This oil supports efficient engine operation across a wide temperature range and is compatible with turbochargers, catalytic converters, and diesel particulate filters (DPFs).

Application

- Suitable for high-speed 4-stroke diesel engines using diverse fuel qualities.
- Recommended for engines equipped with EGR systems, DPFs, or SCR technology.
- Backward compatible with older engines requiring API CK-4 or SN specifications.
- Ideal for use in both on-road and off-road conditions in modern and legacy vehicles.

Performance Benefits

- **Outstanding Wear Protection:** Extends engine life under severe conditions.
- **Fuel Efficiency:** Low-friction formulation minimizes fuel consumption.
- **Emission System Protection:** Ensures long-lasting efficiency of DPFs and catalytic converters.
- **Thermal Stability:** Resists oxidation and viscosity breakdown in high-temperature environments.
- **Cold Weather Performance:** Excellent low-temperature flow for quick engine starts and reduced wear.
- **Engine Cleanliness:** Advanced additives prevent sludge and deposit buildup, ensuring engine reliability.

Meets and Exceeds

Meets:

- ACEA E9
- API CK-4/SN
- JASO DH-2

Approvals:

- Cummins CES 20086
- Caterpillar ECF-3
- Chrysler MS-10902
- Cummins CES 20081
- Detroit Diesel DFS 93K222
- Mack EOS-4.5
- MB 228.31
- MTU Typ 2.1
- Nissan
- Renault Trucks RLD-3
- Volvo VDS-4.5

Typical Properties

Property	Method	Units	Value
SAE Grade	SAE J300	-	5W-40
Density @ 15°C	ASTM D4052	g/cm ³	0.855
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	86.0
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	14.5
Viscosity Index	ASTM D2270	-	175
Pour Point	ASTM D97	°C	-42
Flash Point	ASTM D92	°C	230
HTHS Viscosity @ 150°C	ASTM D5481	mPas	≥ 3.5
Sulfated Ash	ASTM D874	% wt	1.0
Total Base Number (TBN)	ASTM D2896	mg KOH/g	10.0
CCS (-25)	ASTM D5293	mPa.s (cP)	5320



Health, Safety, and Environment

- Compliant with global safety standards.
- Refer to Safety Data Sheet (SDS) for detailed health and environmental guidelines.
- Always adhere to local regulations for disposal of used oil.

Care and Handling

- Avoid prolonged skin contact; wash thoroughly after handling.
- Store in a cool, dry place, away from direct sunlight or temperatures above 60°C.
- Dispose of used oil responsibly at authorized collection points.

Note: The above data represents typical values and should not be considered specifications. Product performance may vary based on operating conditions and usage. Always follow OEM recommendations for oil change intervals and application suitability.

