

VIRO-TEC Fully Synthetic Diesel Engine Oil SAE 0W-30 CK-4/SN

Product Description

VIRO-TEC 0W-30 CK-4/SN is a high-performance, fully synthetic heavy-duty engine oil engineered for advanced emission-compliant diesel engines operating in cold climates. It uses premium base oils and high-performance additive technology to deliver long drain intervals, exceptional oxidation stability, and outstanding wear protection. It is backwards compatible with older diesel engines and supports optimal performance in biodiesel blends up to B20.

Performance Benefits

- **Excellent Cold-Start Performance:** Outstanding low-temperature fluidity ensures rapid oil flow during engine start-up in harsh cold climates.
- **Extended Drain Capability:** Formulated to meet long oil drain requirements while maintaining engine protection.
- **Superior Wear Protection:** Shields critical engine parts from wear and deposits under high-load conditions.
- **Emission System Protection:** Low SAPS formulation supports the durability of DPF, EGR, and SCR components.
- **Enhanced Oxidation Control:** Resists oil thickening and sludge build-up, even under severe operating cycles.
- **Improved Fuel Efficiency:** Ultra-low viscosity helps minimize engine friction and fuel consumption.

Application

- Heavy-duty diesel engines complying with Euro V and Euro VI emissions.
- On-road commercial transport vehicles operating in cold environments.
- Off-road equipment used in construction, agriculture, and mining.
- Engines with DPF, EGR, and SCR emission control systems.
- Compatible with biodiesel blends (up to B20).

Meets and Exceeds

- API CK-4 / SN
- ACEA E6-22 / E9-22
- MB-Approval 228.51
- Volvo VDS-4.5
- Renault RLD-3
- MTU Type 3.1
- Mack EOS-4.5
- MAN M3477
- Cummins CES 20086
- DDC 93K222
- Caterpillar ECF-3
- Scania LDF-4

Typical Properties

Property	Method	Units	Value
SAE Grade	SAE J300	-	0W-30
Density @ 15°C	ASTM D4052	g/ml	0.843
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	62.3
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	11.5
Viscosity Index	ASTM D2270	-	172
Pour Point	ASTM D97	°C	-54
Flash Point	ASTM D92	°C	226
Sulfated Ash	ASTM D874	% wt	0.95
TBN	ASTM D2896	mg KOH/g	10.3
Noack Volatility	ASTM D5800	% Loss	9.3
Cold Cranking Viscosity	ASTM D5293	mPa.s	6200 @ -35°C



Health, Safety, and Environment

- Refer to the Safety Data Sheet (SDS) before use.
- Collect used oil in designated disposal facilities.
- Avoid release into the environment.

Care and Handling

- Store in original containers, tightly closed in a dry and well-ventilated area.
- Avoid prolonged skin contact. Use appropriate PPE during handling.
- Do not mix with non-compatible oil types.

