

## VIRO-TEC Fully Synthetic Diesel Engine Oil SAE 10W30 CJ-4

### Product Description

**VIRO-TEC 10W30 CJ-4/SM** is a premium, fully synthetic heavy-duty diesel engine oil engineered to deliver outstanding protection, superior fuel economy, and excellent performance under extreme conditions. Its advanced low-SAPS formulation ensures compatibility with modern emission control systems like Diesel Particulate Filters (DPFs), catalytic converters, and Exhaust Gas Recirculation (EGR) systems. VIRO-TEC 10W30 CJ-4/SM meets stringent global standards while providing extended oil drain intervals for efficient fleet management.

### Performance Benefits

- **Enhanced Fuel Efficiency:** Advanced low-friction technology for improved fuel economy compared to conventional oils.
- **Extended Drain Intervals:** Formulated to perform over extended service intervals, reducing maintenance costs.
- **Cold Start Performance:** Excellent low-temperature properties ensure faster lubrication and reduced engine wear during cold starts.
- **Emission System Protection:** Low-SAPS technology prolongs the efficiency and durability of DPFs and other emission control devices.
- **Advanced Wear Protection:** Prevents wear and tear on critical engine components, even under heavy soot and contamination.
- **Engine Cleanliness:** Keeps engines clean with advanced detergent and dispersant additives, reducing deposits and sludge buildup.
- **Versatile Use:** Compatible with both older engines and the latest low-emission diesel technologies.

### Application

- Modern diesel engines with advanced emission control systems, including DPFs and catalytic converters.
- Suitable for Tier IV and Euro VI engines, as well as legacy engines without after-treatment systems.
- Ideal for both highway driving and stop-and-go urban transport.
- Compatible with mixed fleets of gasoline and diesel engines.

### Meets and Exceeds

**ACEA Specifications:** E4-16, E6-16, E7-16, E9-16

**API Standards:** API CJ-4, API SM

**OEM Approvals:**

- CATERPILLAR ECF-3
- CUMMINS CES 20081
- DETROIT DIESEL DFS 93K218
- DEUTZ DQC IV-10 LA
- MACK EO-M PLUS, EO-N Premium Plus, EO-O Premium Plus
- MAN M3271-1, M3477, M3575, M3677, M3691
- MB 228.31, MB 228.51, MB 235.28
- MTU Oil Categories 2.1 & 3.1
- RENAULT RGD, RLD-2, RLD-3, RXD
- SCANIA LDF-4
- VOITH Retarder Oil Class B
- VOLVO CNG, VDS-3, VDS-4

### Typical Properties

Property	Method	Units	Value
Density @ 15°C	ASTM D4052	g/ml	0.8565
Kinematic Viscosity @ 40°C	ASTM D445	mm <sup>2</sup> /s	78.38
Kinematic Viscosity @ 100°C	ASTM D445	mm <sup>2</sup> /s	11.98
Viscosity, CCS @ -25°C	ASTM D5293	mPa.s (cP)	6000
Viscosity Index	ASTM D2270	-	148
Noack Volatility	CEC L-40-A-93	% Loss	8.50
Sulphated Ash	ASTM D874	% wt	0.56
Total Base Number (TBN)	ASTM D2896	mg KOH/g	9.75
Pour Point	ASTM D97	°C	-39
Flash Point	ASTM D92	°C	240



## Health, Safety, and Environment

- Fully compliant with global safety standards.
- GHS-compliant Safety Data Sheets (SDS) available upon request.
- Always dispose of used oil in compliance with local environmental regulations.

## Care and Handling

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

