

VIRO-TEC Semi Synthetic Diesel Engine Oil SAE 5W30 CI-4/SL

Product Description

VIRO-TEC 5W30 CI-4 is a high-performance semi-synthetic diesel engine oil developed to provide outstanding protection against wear, soot build-up, oil thickening, and deposits in harsh operating environments. Blended with premium synthetic base stocks and a high-performance additive system, it ensures extended oil drain intervals and reliable engine performance in both low-temperature startups and high-load operations.

Performance Benefits

- **Extended Drain Capability:** Maintains performance integrity over long service intervals up to 30,000 km with minimal oil consumption.
- **High-Temperature Stability:** Prevents breakdown at high temperatures common in turbocharged or high-load diesel engines.
- **Advanced Wear Protection:** Minimizes valve train, piston ring, and cylinder wear, even in severe service applications.
- **Soot and Deposit Control:** Excellent TBN retention and dispersant properties protect against soot-induced oil thickening and piston deposits.
- **Cold Start Performance:** Superior low-temperature fluidity ensures fast lubrication at engine start-up, reducing metal-to-metal contact.
- **Fuel Efficiency:** 5W-30 grade contributes to improved fuel economy compared to higher viscosity diesel oils.

Application

- Suitable for on-road and off-road diesel engines operating in extreme environments
- Designed for use in engines requiring:
 - API CI-4, CH-4, SL
 - ACEA E3 / E5 / E7
 - Cummins CES 20076/77/78, MB 228.3, Volvo VDS-2
- Compatible with older and newer-generation diesel engines in trucks, buses, earth-moving equipment, etc.
- May also be used in gasoline engines where API SL is recommended

Meets and Exceeds

- API CI-4 / CH-4 / SL
- ACEA E7 (performance equivalent)
- Cummins CES 20076/77/78
- Volvo VDS-2
- MB 228.3
- Mack EO-N

Typical Properties

Property	Method	Results
Appearance	Visual	Bright & Clear
Density @ 15°C	ASTM D4052	0.852 g/cm ³
Viscosity @ 40°C	ASTM D445	72 - 80 mm ² /s
Viscosity @ 100°C	ASTM D445	11.5 - 12.5 mm ² /s
Viscosity Index	ASTM D2270	≥155
Pour Point	ASTM D97	-39°C
Flash Point	ASTM D92	≥220°C
CCS @ -30°C	ASTM D5293	≤6000 cP
TBN (mg KOH/g)	ASTM D2896	10 - 11
Sulfated Ash	ASTM D874	≤1.2%
Noack Volatility	ASTM D5800	≤13.0%



Storage and Handling

- Outstanding soot handling and dispersancy for long-life engines
- Ensures cleaner pistons and valves over extended intervals
- Reliable protection in both extreme heat and sub-zero temperatures
- Reduces downtime and maintenance cost for fleets and operators

Performance Highlights

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