

VIRO-TEC Semi Synthetic Diesel Engine Oil SAE 10W40 CI-4/SL

Product Description

VIRO-TEC 10W40 CI-4 is a semi-synthetic, high-performance heavy-duty diesel engine oil formulated to meet the demanding requirements of modern diesel engines. Designed with advanced base oils and a robust additive system, this lubricant ensures excellent wear protection, thermal stability, and extended oil life, even under severe operating conditions. Ideal for engines equipped with EGR systems, turbochargers, and intercoolers, it meets API CI-4 and ACEA E7 specifications for optimal engine cleanliness, fuel efficiency, and durability.

Application

Recommended for turbocharged or naturally aspirated diesel engines, including:

- Commercial trucks, construction machinery, and agricultural equipment.
- Mixed fleets operating in high-demand, on- and off-highway conditions.
- Engines requiring API CI-4, CH-4, SL, or ACEA E7 specifications.

Performance Benefits

- **Oxidation Resistance:** Prevents sludge and varnish formation for long-lasting engine cleanliness.
- **Advanced Soot Handling:** Controls viscosity increase, minimizes sludge build-up, and maintains filter performance.
- **Wear Protection:** Reduces wear on critical engine components, ensuring longer engine life.
- **Thermal Stability:** Performs exceptionally under high temperatures and heavy loads.
- **Low Temperature Performance:** Ensures reliable cold starts and rapid lubrication in cold climates.
- **Extended TBN Reserve:** Offers excellent acid neutralization for prolonged drain intervals.
- **High Shear Stability:** Maintains viscosity under extreme shear conditions, safeguarding engine parts.

Meets and Exceeds

Meets

- API CI-4/SL
- CH-4/SJ
- ACEA A3/B4-21
- ACEA E7-22
- JASO DH-1

OEM Approvals

- DTFR 15B110 (MB 228.3) MB 229.1 , MAN 3275 , Volvo VDS-3 , Deutz DQC-II/III , MTU 2.0 , Mack EO-M+/N , Cummins CES 20077/78 , Caterpillar ECF-1a , Caterpillar ECF-2 , Renault RLD-2 , Global DHD-1 , DDC 93K215 , ZF TE-ML 05K/07D/21K

Typical Properties

Property	Method	Units	Value
Density @ 15°C	ASTM D4052	g/cm ³	0.8525
Kinematic Viscosity @ 40°C	ASTM D445	mm ² /s	97.05
Kinematic Viscosity @ 100°C	ASTM D445	mm ² /s	14.78
Viscosity Index	ASTM D2270	-	159
Total Base Number (TBN)	ASTM D2896	mg KOH/g	11.12
Pour Point	ASTM D97	°C	-39
Flash Point (COC)	ASTM D92	°C	242
Sulfated Ash	ASTM D874	% wt	1.12



Storage and Handling

- Store in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid water contamination and ensure the container is sealed after use.
- Follow environmental regulations for proper disposal of used oil.

Health, Safety and Environment

This product is unlikely to cause significant health risks when used as directed. Refer to the Material Safety Data Sheet (MSDS) for detailed guidance.

