

## VIRO-TEC Semi Synthetic Diesel Engine Oil SAE 20W50 CI-4/SL

### Product Description

**VIRO-TEC 20W50 CI-4** is a premium semi-synthetic diesel engine oil designed for high-performance applications in both heavy and light-duty vehicles. It delivers robust protection for turbocharged and naturally aspirated diesel engines operating in demanding conditions. The advanced formulation provides exceptional wear resistance, deposit control, and thermal stability, ensuring long-lasting engine performance and extended oil life.

### Application

#### Recommended for:

- High-speed 4-stroke diesel engines, turbocharged or naturally aspirated
- Trucks, buses, light commercial vehicles (LCVs), SUVs, agricultural machinery, and construction equipment
- Engines requiring API CI-4, CH-4, or ACEA E7 performance levels

### Performance Benefits

- **Advanced Deposit Control:** Effectively reduces soot, sludge, and varnish formation, keeping engines clean.
- **Superior Wear Protection:** Protects critical engine components under high stress and load conditions.
- **Oxidation Stability:** Resists breakdown at elevated temperatures, extending drain intervals.
- **High TBN Reserves:** Neutralizes acids formed during combustion, preventing corrosion and maintaining engine cleanliness.
- **Wide Compatibility:** Suitable for engines equipped with Exhaust Gas Recirculation (EGR) systems and older engine designs.
- **All-Weather Performance:** Excellent viscosity retention across a wide temperature range ensures smooth operation in varied climates.

### Meets and Exceeds

#### Meets :

- API CI-4/SL , API CH-4/SJ , ACEA E3-96 , ACEA B3-96 , ACEA E7-22

#### Approvals :

- DTFR 15B110 ( MB 228.3 ), MAN 3275 , Caterpillar ECF-2
- Heavy-duty engines operating under extreme conditions
- Hydraulic systems and torque converters where engine oils are specified

### Typical Properties

Property	Method	Units	Value
Appearance	Visual	-	Amber
Density @ 15°C	ASTM D4052	g/cm <sup>3</sup>	0.8775
Kinematic Viscosity @ 40°C	ASTM D445	mm <sup>2</sup> /s	163.8
Kinematic Viscosity @ 100°C	ASTM D445	mm <sup>2</sup> /s	19.14
Viscosity Index	ASTM D2270	-	133
Pour Point	ASTM D97	°C	-27
Flash Point (COC)	ASTM D92	°C	240
Total Base Number (TBN)	ASTM D2896	mg KOH/g	11.12
Sulfated Ash	ASTM D874	% wt	1.15
Cold Cranking Simulator (CCS) @ -15°C	ASTM D5293	mPa.s (cP)	7550



## Storage and Handling

- Store in covered conditions, avoiding exposure to direct sunlight, freezing temperatures, or extreme heat (above 60°C).
- For best results, ensure drums are laid horizontally to prevent water ingress.

## Health, Safety and Environment

- Always refer to the Material Safety Data Sheet (MSDS) for detailed safety information.
- Dispose of used oil responsibly to minimize environmental impact—return it to authorized collection centers.

