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# ENEOS Diesel Oil CI-4 15W-40

## High Performance Diesel Engine Oil

A growing number of users are looking for diesel engine oils that offer for high performance. And as the performance and power of diesel engines improves year by year, operating conditions are becoming more severe. There is thus a need for diesel engine oils that provide greater wear protection and detergency than the products of the past. With these market needs in mind, **ENEOS** created **Diesel Oil CI-4 15W-40**.

### ● Special Features

#### 1. API Grade

The CI-4 standard came into effect in year 2002. In order to be compatible with EGR-installed engines from around the world, Engine oil must provide the improved anti-wear and corrosion protection, high-temperature oxidation stability, and soot control that modern low-emission engines require.

And **ENEOS Diesel Oil CI-4** also has API SL performance which is suitable for Gasoline Engine Oil.

#### 2. Outstanding Fuel-Saving Performance

The diesel engines used in today's passenger cars and small trucks provide better fuel economy, and diesel engine oils must provide fuel-saving performance to match.

**ENEOS Diesel Oil CI-4** is available in **15W-40** viscosity grades. That provides outstanding fuel-saving performance compared with high viscosity grade oil.

#### 3. Superior Engine Cleanliness

In severe driving conditions, engines get hotter. If you're using an oil with poor cleanliness properties, this heat can lead to lacquer formation and ultimately to carbonization of the oil. Carbon residue builds up as deposits on the rings and in the ring grooves, which interferes with piston cooling and can end up causing ring sticking and other problems.

Each year brings diesel engines with higher performance and output, while operating conditions are typically becoming more severe. This has created a need for engine oils with greater detergency than past products.

#### 4. Outstanding Anti-Wear Performance & Oxidation Stability

Progressive wear of engine parts not only hurts fuel economy, but can lead to noise and vibration, and be the cause of reduced engine performance and engine trouble.

And progressive oxidative degradation of engine oil can lead to increased viscosity, corrosion of bearings, or heavier deposits on and around the pistons.

Blended with a balance of carefully selected anti-wear and antioxidant additives, **ENEOS Diesel Oil CI-4 15W-40** demonstrated excellent anti-wear performance and oxidation stability.

### ● Applications

**ENEOS Diesel Oil CI-4 15W-40** is suitable for use in all land-based diesel engines, and specially designed to help the following engines perform at their fullest:

- (1) For large trucks & buses used for long-distance transport, for which fuel economy is of prime concern.
- (2) For diesel-powered earthmoving & construction machinery used year-round.
- (3) For diesel passenger vehicles & small trucks, providing improved fuel economy.
- (4) For diesel tractors, diesel-powered fishing boats and other diesel-powered agricultural machinery.

### ● Containers

209-liter drums and 4-liter bottles.

● **Typical properties of ENEOS Diesel Oil CI-4 15W-40**

API grade	CI-4
SAE grade	15W-40
Kinematic viscosity (40 °C), mm <sup>2</sup> /s	104.6
(100 °C), mm <sup>2</sup> /s	13.9
Viscosity index	134
Flash point (COC), °C	240
Pour point, °C	-35
Acid number, mgKOH/g	2.5
Base number (ASTM D2896), mgKOH/g	10.4
Sulfated ash, mass%	1.5

Note: the typical properties are subject to change without notice. (Oct 2014)



## Handling Precautions

▼ Follow these precautions when handling this product.

<p><b>! CAUTION</b></p> <p><b>Handling Precautions</b></p>	<ul style="list-style-type: none"> <li>● Draining oil from a hot engine can cause <u>burns</u>. Drain oil only <u>after the engine has cooled</u>.</li> <li>● <u>Inflammation can occur if oil enters the eyes</u>. When handling this oil, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact</u>.</li> <li>● <u>Inflammation can occur if oil comes into contact with skin</u>. When handling this oil, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact</u>.</li> <li>● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.)</li> <li>● <u>Keep out of reach of children</u>.</li> <li>● Read the Material Safety Data Sheet (MSDS) for this product before using the product. Obtain the Material Safety Data Sheet from where you purchased the product.</li> </ul>
<p><b>First Aid</b></p>	<ul style="list-style-type: none"> <li>● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.</li> <li>● In case of skin contact, wash skin thoroughly with soap and water.</li> <li>● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately.</li> </ul>
<p><b>Disposal of Used Oil and Containers</b></p>	<ul style="list-style-type: none"> <li>● Do not apply pressure to empty containers. The containers may burst if pressure is applied.</li> <li>● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode.</li> <li>● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.</li> </ul>
<p><b>Storage Method</b></p>	<p>Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.</p>