

# Diesel CF

## High Performance CF Class Diesel Engine Oil

**Diesel CF** has sufficient performance to withstand harsh operating or usage conditions since it has superior cleanliness and oxidation stability as CF class diesel engine oil classified by API service.

**Diesel CF** is an oil that the performance of diesel engines such as construction machinery and heavy-duty trucks and buses without DPF (Diesel Particulate Filter) can be demonstrated.

### ● Special Features

#### 1. Superior Detergency

Because **Diesel CF** is excellent in high-temperature detergency, it suppresses piston deposits and prevents piston ring sticking.

#### 2. Excellent Oxidation Stability and Base Number Retention

Generally speaking, as engine oil deteriorate, oil increase in viscosity and deposit and corrode the bearings. To prevent this, **Diesel CF** has excellent oxidation stability and base number retention.

### ● Applications

- (1) Diesel engines for civil engineering and construction machinery
- (2) Heavy duty trucks and buses without DPF

### ● Containers

200-liter drums and 20-liter pail cans.

### ● Typical properties of Diesel CF

SAE viscosity grade	10W*	20W	30	40
Color (ASTM)	L3.0	L3.0	L3.0	L3.0
Density (15°C), g/cm <sup>3</sup>	0.881	0.887	0.894	0.897
Kinematic viscosity (40 °C), mm <sup>2</sup> /s	37.1	57.0	88.9	139
(100 °C), mm <sup>2</sup> /s	6.09	7.88	10.6	14.3
Viscosity index	110	103	102	100
Flash point (COC), °C	232	242	256	272
Pour point, °C	-32.5	-27.5	-25.0	-20.0
Acid number, mgKOH/g	2.26	2.31	2.29	1.71
Base number (ASTM D664), mgKOH/g	9.81	9.74	9.83	8.92
Sulfated ash, mass%	1.4	1.4	1.4	1.4

Note: the typical properties are subject to change without notice. (June 2011)

\*10 W oil is used as a hydraulic fluid for construction equipment and agricultural machinery.



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms :</b>	
<b>Signal word:</b>	Warning
<b>Hazard Statement:</b>	Causes serious eye irritation
<b>Precautionary Statements:</b>	
<b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>