

AUT-0062-2104E

ENEOS FLEET Series

DIESEL GRAND

DH-2/CF-4 Diesel Engine Oils for Diesel Engines Equipped with DPF

Particulate matter and NO_x exhausted from a diesel engine are considered as a cause of the air pollution, and the regulation of the emission gas is strengthened more and more. In Japan, the regulations for new and previously sold car are started, and the vehicle which is equipped with particulate matter reducing apparatus such as DPF (Diesel Particulate Filter) and NO_x reduction system such as urea SCR has been increasing. **DIESEL GRAND** is eco-friendly diesel engine oil of fuel-saving, long-life type with high detergency and anti-wear property without spoiling the performance of the exhaust-gas aftertreatment device such as DPF.

● Special Features

1. Suitable for Large Vehicles Equipped with DPF

DIESEL GRAND meets JASO (Japanese Automotive Standards Organization) DH-2 which is the standard of diesel engine oil for the vehicle equipped with the exhaust-gas aftertreatment device such as DPF.

2. Load Reduction of the DPF

Ash of the conventional oil with large amount of metallic additives may clog the filter after burning on DPF. Filter clogging may cause the back pressure rise that brings aggravation of engine output. **DIESEL GRAND** can prevent filter clogging due to proper sulfated ash level. In addition, **DIESEL GRAND** can improve the fuel-saving performance because keeping combustion efficiency. This oil also can be used for vehicles without DPF device.

3. Extension of the Engine Life

DIESEL GRAND can extend the engine life because of the excellent detergency and anti-wear property, which can prevent the adhesion of the carbon sludge and the wear of engine parts.

4. Small Viscosity Rise

DIESEL GRAND can suppress the viscosity increase by its excellent dispersancy due to adoption of a novel high-performance dispersant even if the soot generated by combustion is contaminated in the oil.

5. Long Life

DIESEL GRAND has the same performance as compared to conventional high-performance DH-1/ CF-4 oil by using high viscosity index base oil and the optimal additive formulation.

6. Low Catalyst Poisoning in the Exhaust Gas Treatment

DIESEL GRAND can suppress the poisoning of the exhaust gas treating catalyst by reducing the element (sulfur) which affects the catalyst adversely.

● Applications

DIESEL GRAND is suitable for use in diesel engines of large trucks & buses (especially vehicles equipped with DPF).

● Containers

200-liter drums, 20-liter pail cans.

● Typical properties of DIESEL GRAND

JASO standard	DH-2	DH-2
Equivalent to API grade	CF-4	CF-4
SAE grade	10W-30	15W-40
Color(ASTM)	L3.5	L3.5
Density, g/cm ³	0.863	0.865
Kinematic viscosity(40 °C), mm ² /s	65.2	97.3
(100 °C), mm ² /s	10.6	14.3
Viscosity index	151	151
Flash point (COC), °C	242	263
Pour point, °C	-40.0	-35.0
Acid number, mgKOH/g	1.57	1.55
Base number (ASTM D664), mgKOH/g	6.67	6.76
Sulfated ash, mass%	0.94	0.93

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



Handling Precautions

▼ Follow these precautions when handling this product.

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