

DIESEL GRAND DX 0W-30

Fuel-saving diesel engine oil for DPF-equipped vehicles (JASO DH-2F)

Energy conservation, environmental consciousness such as reduction of carbon dioxide emission are rising, and demand for fuel-saving oil is increasing more and more in diesel engines for large-sized cars. **DIESEL GRAND DX 0W-30** is low-viscosity multi-grade oil of 0W-30, which was developed for the first time in the market for large-sized vehicles by our proprietary high-performance synthetic base oil and blending technology of carefully selected additives.

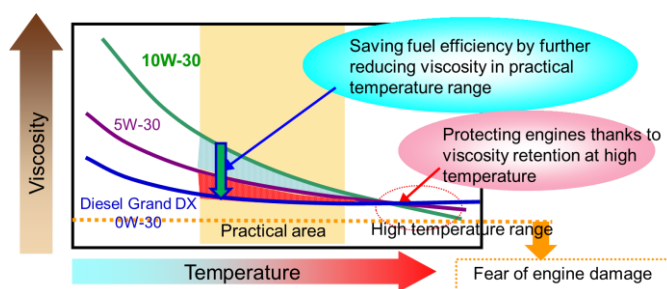
In addition to saving fuel efficiency, it has high detergency and anti-wear performance without impairing the performance of exhaust gas after-treatment equipment such as DPF, and thus it is environmentally friendly to engine and diesel engine oil.

● Special Features

1. Excellent fuel saving performance

Diesel Grand DX 0W-30 is 0W-30 oil, but oil film retention at high temperature is equal to or more than 10W-30 oil because it uses high-performance synthetic base oil with high viscosity index. It has low viscosity at the temperature of the practical range. With this excellent temperature-viscosity characteristic, it reduces the stirring resistance of oil in practical use and demonstrates high fuel saving performance over conventional engine oil.

[Achieve low viscosity at practical temperature range and high engine reliability at high temperature range with ultra-high viscosity index]



2. Certification of JASO M 355: 2017 "DH-2F" standard

Diesel Grand DX 0W-30 has passed the newly established "JASO DH-2F" in 2017. For that standard, fuel savings has been added to the quality required of the conventional "JASO DH-2".

The fuel efficiency improvement rate of **Diesel Grand**

DX 0W-30 is significantly higher than the accepted standard value in the JASO M 362 fuel efficiency test.

3. Reduction of load on exhaust gas after-treatment equipment

The high-performance synthetic base oil of **Diesel Grand DX 0W-30** does not contain sulfur, which is a poisoning element of the NO_x storage / reduction catalyst. Therefore, the lifetime of the exhaust gas reduction catalyst can be prolonged by minimizing the sulfur element in the oil.

4. Extended life of oil change

Diesel Grand DX 0W-30 improves oxidation stability by using our proprietary high-performance synthetic base oil, enabling longer service life than conventional oil. In addition, increase in viscosity due to soot is suppressed thanks to additives with high dispersancy.

5. Extension of engine life

Diesel Grand DX 0W-30 enables extension of engine life. Because it is excellent in anti-wear performance and engine cleanliness, it prevents wear of various parts of the engine and adhesion of carbon / sludge.

● Applications

For heavy-duty trucks, buses and other diesel engines, especially for DPF-equipped vehicles

● Containers

200-liter drums and 20-liter cans.

● Typical Properties of Diesel Grand DX 0W-30

JASO		DH-2F
API		CF-4 class
SAE Grade		0W-30
Color (ASTM)		L3.5
Density	g/cm ³	0.846
Viscosity (40°C)	mm ² /s	47.04
Viscosity (100°C)	mm ² /s	9.950
Viscosity Index		210
Flash Point	°C	230
Pour Point	°C	-45
Evaporation Loss (NOACK:250°C,1h)	mass%	11.8
Acid Number	mgKOH/g	1.52
Base Number (ASTM D664)	mgKOH/g	6.03
Sulfated Ash	mass%	1.03
Elements Phosphorus	mass%	0.08
Sulfur	mass%	0.30

Note: The typical properties may be changed without notice. (February 2018)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives
Precautionary pictograms:	
Signal word:	Warning
Hazard Statement:	Causes serious eye irritation
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. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
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.