

DIESEL GRAND DX 0W-40

Fuel-saving diesel engine oil (JASO DH-2 / CF-4) for vehicles where fuel dilution is likely to occur

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 heavy duty diesel engines. On the other hand, DPF (diesel particulate filter) is installed in all diesel vehicles now that the exhaust emission regulation of the diesel engine has been fully implemented. In order to clean out PM (particulate matter) trapped by the filter, post injection is carried out, but at this time "fuel dilution" and "viscosity reduction" occurs in the oil. For this reason, high viscosity oil such as 15W-40 is required for the post injection type diesel engine. Therefore, there is concern about worsening of fuel consumption.

Diesel Grand DX 0W-40 ensures the necessary high temperature viscosity in the state of oil diluted with fuel by high-performance synthetic base oil and our proprietary blending technology of carefully selected additives. In addition, it realizes low viscosity (that is, high viscosity index of oil) in the practical temperature range of oil. This will demonstrate excellent fuel saving performance even in vehicles with high fuel dilution.

● Special Features

1. Excellent fuel saving performance

Diesel Grand DX 0W-40 is an oil with a super wide viscosity range of 0W-40 by high performance synthetic base oil with high viscosity index and blending technology of carefully selected additives. By lowering the viscosity of the practical use temperature range, viscous resistance is reduced in hydrodynamic lubrication region such as piston-liner and bearing metal.

2. Engine oil corresponding to fuel dilution

Diesel Grand DX 0W-40 has high temperature viscosity of SAE 40, so even if fuel dilution occurs, oil film thickness required for engine protection can be maintained and excellent anti-wear performance is demonstrated.

3. Extended oil drain interval

Diesel Grand DX 0W-40 improves oxidation stability by using high-performance synthetic base oil, and can extend the life longer than conventional oil. In addition, compared with the conventional 10W-30, it is possible to extend the oil change interval because it ensures the necessary viscosity even in the state where fuel dilution occurs.

● Applications

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

● Containers

200-liter drums and 20-liter cans.

● Typical Properties of Diesel Grand DX 0W-40

JASO API SAE Grade		DH-2 CF-4 class 0W-40
Color (ASTM)		L3.5
Density	g/cm ³	0.844
Viscosity (40°C)	mm ² /s	62.1
Viscosity (100°C)	mm ² /s	14.7
Viscosity Index		249
Flash Point	°C	224
Pour Point	°C	-42.5
Acid Number	mgKOH/g	1.34
Base Number (ASTM D664)	mgKOH/g	6.4
Sulfated Ash	mass%	0.95
Elements Phosphorus	mass%	0.07
Sulfur	mass%	0.20

Note: The typical properties may be changed without notice.
(April 2014)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	
Prevention	<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.