

# D-3 PLUS

SAE 30 / 40 / 50

## Product Description

D-3 PLUS is high quality heavy-duty diesel engine oil developed to keep engine clean and reduce deposits for diesel engines. It helps to provide high wear protection and maintain engine performance.

## Benefits

- Gives superb engine wear protection.
- Extra detergent to provides more engine cleanliness.
- Protects against corrosion, harmful sludge build-up and reduces piston deposit.

## Applications

- Designed for heavy-duty diesel engines both on-highway and off-highway applications such as trucks, buses, trailers and heavy equipment.
- Recommended for certain transmission systems in heavy-duty equipment.
- Suitable for generator diesel engines, agricultural machines and multi-purpose equipment.
- Can be used for light duty diesel engine recommended monograde viscosity.
- Choosing viscosity grade following by the manufacturers' recommendations.

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## Typical Characteristics

Test	Method	Units	Results		
			30	40	50
Density at 15 °C	ASTM D 4052	g/cm <sup>3</sup>	0.893	0.897	0.902
Kinematic Viscosity at 40 °C	ASTM D 445	mm <sup>2</sup> /s	93.1	152	216.4
Kinematic Viscosity at 100 °C	ASTM D 445	mm <sup>2</sup> /s	11.0	15.0	19.1
Viscosity Index	ASTM D 2270		103	100	99
Total Base Number	ASTM D 2896	mg KOH/g	11.1	11.1	11.0
Flash Point (COC)	ASTM D 92	°C	240	262	262
Pour Point	ASTM D 5950	°C	-18	-18	-18
Sulfated Ash	ASTM D 874	% wt	1.5	1.5	1.5

## Performance Standards

	SAE 30	40	50
• API CF, CF-2/SF	✓	✓	✓
• ACEA E2	✓	✓	✓
• MB 228.0	✓	✓	✓
• MIL-L-2104D	✓	✓	✓
• Cat TO-2	✓	✓	✓
• Allison C-4	✓	✓	✓

## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>

**PTT LUBE SOLUTIONS** Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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