



# Product Data Sheet

## OPTIMA DX 8 EURO

### Product Description:

Optima DX 8 Euro is an Ultra High Performance Diesel (UHPD) low ash lubricants that suggested for ACEA E6 and MB-Approval 228.51 as well as Scania Low Ash. It is blended only using high quality synthetic base fluid and advance high technology core additive package. Optima DX 8 Euro improves engine performances that are being addressed include oxidation stability, shear stability and aeration control.

Optima DX 8 Euro provides high temperature protection in all grades, exceeding the tough standards against thermal breakdown. It can dramatically reduce the carbon deposit created at today's escalated operating temperature, therefore greatly reduced oil consumption so that the oil's drain interval can be extended much longer than conventional mineral based diesel engine oil.

Optima DX 8 Euro diesel engines oil meets Euro V and VI emission requirements that run under severe operating conditions. Suitable for use with NOx reduction systems and particulate filters as well as designed for use in combination with low sulfur diesel fuel (maximum 50 ppm).

### Applications / Benefits:

- ▣ Formulated specially for use in HD Diesel engine with after treatment devices.
- ▣ Satisfying many diesel engine OEM oil demand
- ▣ Provide superb performance in a very long drain interval.
- ▣ Particular suitable for the latest diesel engine meeting EURO V and VI emission requirements.

### Typical Characteristics:

Test Description	Method	5W30	10W40
SAE Viscosity Grade	SAE J 300	5W30	10W40
Specific Gravity @ 15 °C	ASTM D 4052	0.868	0.867
Flash Point, °C	ASTM D 92	218	228
Pour Point, °C	ASTM D 97	-39	-36
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	64.1	95.8
cSt @ 100°C	ASTM D 445	10.9	14.5
Viscosity Index	ASTM D 2270	162	157
TBN, mgKOH/g	ASTM D 2896	13.3	13.3
Color	ASTM D 1500	<3.5	<3.5

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## Suggested for the following uses:

- API CK-4
- API FA-4\*\*
- ACEA E4, E6, E7, E9
- Caterpillar ECF-3
- Cummins CES20081, CES 20086, CES 20087
- Deutz DQC IV-10 LA
- Detroit Diesel DFS 93K222
- JASO DH-2
- Mack EOS-4.5
- Mack EO-O Premium Plus\*
- MAN M3477\*, M3575\*, M3297-1\*
- MB-Approval 228.31
- MB-Approval 228.51
- MTU Category 3.1 and Category 2.1
- Renault Trucks RLD-4
- Scania Low Ash\*
- Volvo VDS-4.5, VDS-4\*

\* SAE 5W30 does not claim.

\*\* SAE 5W40 does not claim.

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