



Product Data Sheet

OPTIMA DX 8 EXTREME

Product Description:

Optima DX 8 Extreme Fully Synthetic Diesel Engine Oil is specifically formulated for extended drain service in the most demanding applications requiring API Service Category CJ-4/SN, as well as the latest OEM's for EPA 2010 compliant on-highway and Tier 4 nonroad diesel engines equipped with after treatment devices such as Diesel Oxidation Catalysts, Particulate Filters and Selective Catalytic Reduction system or for previous model year diesel engines. Exceeds the highest API SN gasoline engine performance as well.

Blended from partial Polyalphaolefins PAO base stocks and a state-of-art additive package, Optima DX 8 Extreme Fully Synthetic Diesel Engine Oil continue to provide long drain service in conventional engines by promoting longer engine life and reduced component wear by providing higher oil film thickness, better wear performance and improved oxidation control at higher temperatures. API CJ-4 delivers improved soot-handling and shear stability performance in all engines.

Applications / Benefits:

- ▣ Meets Emission System Requirements
- ▣ Exceptional protection of valve train system used in modern diesel system.
- ▣ Satisfying most diesel engine OEM oil demand.
- ▣ Exceeds the highest API SN gasoline engine performance as well
- ▣ Effectively save fuel consumption

Typical Characteristics:

| Test Description | Method | | |
|---------------------------------|-------------|-------------|-------------|
| SAE Viscosity Grade | SAE J 300 | 5W30 | 5W40 |
| Specific Gravity @ 15 °C | ASTM D 4052 | 0.855 | 0.861 |
| Flash Point, °C | ASTM D 92 | 222 | 225 |
| Pour Point, °C | ASTM D 97 | -42 | -42 |
| Kinematic Viscosity, cSt @ 40°C | ASTM D 445 | 69.2 | 88.6 |
| cSt @ 100°C | ASTM D 445 | 11.3 | 14.5 |
| Viscosity Index | ASTM D 2270 | 156 | 170 |
| TBN, mgKOH/g | ASTM D 2896 | 10.2 | 10.2 |
| Color | ASTM D 1500 | <5.0 | <5.0 |

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Specifications, Approvals & Recommendations:

- API CJ-4 / CI-4 PLUS / API CI-4 / API CH-4
- ACEA E9
- API SN / SM
- Caterpillar ECF-2/ECF-3
- CUMMINS 20081
- Detroit Diesel 93K218
- Mack EO-O Premium Plus
- Renault RLD-3
- VOLVO VDS-4
- Global DHD-1*
- JASO DH-2*
- MAN 3575*
- Mercedes-Benz 228.3*
- Mercedes-Benz 228.31*
- MTU Type I/Type II*

* SAE 5W30 does not claim.

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