

# URE Product Data Sheet

## **OPTIMA D4**

#### **Product Description:**

Optima D4, blended from hydro-treated base stocks and a advanced additive package, is the premium grade diesel engine oil designed to exceed the lubrication requirements of the most modern diesel engines. It provides excellent protection for high performance diesel engines.

Extensive field-testing proves that Optima D4 Diesel Engine Oil will minimize carbon deposits, which interfere operation efficiency in the piston ring zone. This reduced carbon build-up means less ring wear and cylinder bore polishing. The benefits of using Optima D4 Diesel Engine Oil are less oil consumption, less ring breakage and less piston skirt scuffing. The acid neutralizing additives in Optima D4 Diesel Engine Oil will also reduce corrosion wear, even when using diesel fuel with relatively higher sulfur content.

#### Applications / Benefits:

- Minimizes oil consumption.
- Protects against ring and cylinder wear.
- © Keeps piston clean.
- Neutralizes acids from high sulfur fuel.
- Maintains efficient fuel consumption.

### **Typical Characteristics:**

Test Description	Method		
SAE Viscosity Grade	SAE J 300	15W40	20W50
Specific Gravity @ 15 °C	ASTM D 4052	0.876	0.881
Flash Point, °C	ASTM D 92	228	242
Pour Point, °C	ASTM D 97	-27	-21
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	113.7	174.5
cSt @ 100°C	ASTM D 445	14.8	19.6
Viscosity Index	ASTM D 2270	134	129
TBN, mgKOH/g	ASTM D 2896	10.5	10.5
Color	ASTM D 1500	≤ 2.5	≤ 2.5

#### Specifications, Approvals & Recommendations:

- API CG4
- API SH / SG
- MTU Cat-1
- MAN 270/271
- Mercedes-Benz 228.1
- ACEA E2-96
- VOLVO VDS-1

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