

High-Performance Heavy-Duty Diesel Engine Oils

Diesel Engine OPAL MIS 9400 Diesel Engine Oil is a premium-quality, high-performance, heavy-duty diesel engine oil formulated with advanced additive technology and high-quality base oils to provide superior protection, cleanliness, and durability in modern low-emission diesel engines. It meets the requirements of the API CK-4 specification and is designed for high-speed, four-stroke diesel engines equipped with advanced emission control systems such as EGR, DPF, and DOC, making it suitable for use with ultra-low sulfur diesel (ULSD) fuel while remaining backward compatible with earlier API categories. Its SAE 15W-40 viscosity ensures excellent low-temperature flow for easy cold starts and maintains a stable lubricating film at high operating temperatures, delivering reliable performance across a wide range of operating conditions.

PERFORMANCE, FEATURES & BENEFITS

- **Equipment manufacturer acceptance OPAL MIS 9400 multigrade is meets/exceeds for use in a variety of engine application by leading OEMs.**
- **Outstanding Wear Protection extends engine life by minimizing wear under severe operating conditions.**
- **Excellent Thermal & Oxidation Stability resists oil breakdown at high temperatures for longer service intervals.**
- **Shear Stability maintains viscosity under high stress and load conditions.**
- **Superior protection against corrosive wear helps in sustaining engine durability.**

MAIN APPLICATIONS

- Heavy duty Diesel Engines used in mining, construction agriculture & other off-highway applications for mixed fleet applications and gasoline engines, SAE 15W-40 and below performance oil is recommended.
- Engines fitted with modern emission control systems
- Suitable for mixed fleet operations

SPECIFICATIONS & RECOMMENDATIONS

- API: CK-4
- ACEA E8E9
- ACEA E11

PRODUCT SPECIFICATIONS

TEST PARAMETER	TEST METHOD	TYPICAL VALUE
Appearance	Visual	Clear and bright
KV @ 40°C	ASTM D445	112
KV @ 100°C	ASTM D445	15
Viscosity Index	ASTM D2270	≥ 125
Density @ 15°C	ASTM D4052	0.882
Flash Point	ASTM D92	≥ 216
Pour Point	ASTM D97	-33
CCS @ -20°C	ASTM D5293	6400
TBN	ASTM D2896	9.5

* Note: Typical value; may vary slightly. Please contact your SBK representative for the current batch COA (Certificate Of Analysis)