

### 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 CJ-4 specification and is designed for high-speed, four-stroke diesel engines equipped with advanced emission control systems such as EGR and DPF 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 SN and below performance oil is recommended.
- Engines fitted with modern emission control systems
- Suitable for mixed fleet operations

### SPECIFICATIONS & RECOMMENDATIONS

- API: CJ-4  
ACEA E8E9

### PRODUCT SPECIFICATIONS

| TEST PARAMETER  | TEST METHOD | TYPICAL VALUE    |
|-----------------|-------------|------------------|
| Appearance      | Visual      | Clear and bright |
| KV @ 40°C       | ASTM D445   | 110              |
| KV @ 100°C      | ASTM D445   | 15.0             |
| Viscosity Index | ASTM D2270  | ≥ 120            |
| Density @ 15°C  | ASTM D4052  | 0.878            |
| Flash Point     | ASTM D92    | ≥ 210            |
| Pour Point      | ASTM D97    | -30              |
| CCS @ -20°C     | ASTM D5293  | 6400             |
| TBN             | ASTM D2896  | 8.2              |

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