

## Synthetic HD 0W-40, 5W-30, & 5W-40 Multigrade Heavy-Duty Motor Oil

For EGR, DPF, and DOC-Equipped Diesel Engines | Premium All-Season Synthetic Protection

### Product Overview

Synthetic HD 0W-40, 5W-30 and 5W-40 Multigrade Heavy-Duty Motor Oils are designed for exceptional year-round performance in demanding diesel engine applications. Formulated with premium synthetic base oils and a robust additive system, these multigrade lubricants meet the latest standards for high-performance diesel engines, including those equipped with EGR, DPF, and DOC emission control technologies. They offer outstanding cold-start fluidity, oxidation stability, wear protection, and soot control to extend engine life under severe service conditions.

### Key Features & Benefits

- Advanced synthetic formulation supports extended drain intervals and high thermal stability.
- Outstanding protection under both cold-start and high-load operating conditions.
- Meets performance requirements for EGR, DPF, and DOC-equipped engines.
- High viscosity index ensures consistent lubrication across extreme temperatures.
- Suitable for both diesel and four-cycle gasoline engine applications.

### Applications

- Recommended for heavy-duty diesel engines with advanced emission control systems.
- Ideal for mixed fleet service including highway, off-road, and industrial equipment.
- Formulated for engines requiring low-temperature fluidity and high-temperature stability.
- Compatible with Ultra-Low Sulfur Diesel (ULSD) fuel environments

### Typical Properties

| Property                    | 0W-40     | 5W-30   | 5W-40     |
|-----------------------------|-----------|---------|-----------|
| Viscosity, cSt @ 40°C       | 83        | 69      | 104       |
| Viscosity, cSt @ 100°C      | 14.3      | 11.4    | 15.0      |
| Viscosity Index             | 180       | 159     | 176       |
| Viscosity, CCS @ -35°C (cP) | 5900      |         | -         |
| Viscosity, CCS @ -30°C (cP) | -         | 6190    | 6498      |
| Flash Point, °C/°F          | 210 / 410 | 227/440 | 227 / 440 |
| Pour Point, °C/°F           | -45 / -49 | -40/-40 | -40 / -40 |
| Sulfated Ash, %wt           | 1.0       | 1.0     | 1.0       |
| TBN (Neutralization No.)    | 9.0       | 1.0     | 9.0       |
| API Gravity @ 60°F          | 34.3      | 1.0     | 32.5      |

\*The values shown are typical of current production. Some are controlled in the manufacturing process while others are not. All of them may vary within tolerable ranges.