# Full Synthetic 5W-40 CK-4/SN

(September 2024 edition)

**Full Synthetic 5W-40 CK-4/SN** is full synthetic high-performance diesel engine oil utilizing the latest in additive technology to offer the ultimate protection of your engine. Designed to meet or exceed the latest OEM and API CK-4 requirements, it is also backwards compatible to previous OEM and API specifications such as CJ-4, CI-4, CI-4+, and CH-4. Full Synthetic 5W-40 CK-4/SN carries the API SN classification for use in gasoline engines and is an excellent choice for operators with mixed fleets. This oil is specially designed to protect EGR/Low-Emission Diesel Engines while maximizing the durability of Diesel Particulate Filters (DPF's).

**Full Synthetic 5W-40 CK-4/SN** is recommended for use in a wide range of heavy-duty applications and operating environments found on-and off-highway, including engines operating under heavy loads. It is formulated for extended service/extended drain when operated under typical operating conditions. Full Synthetic 5W-40 CK-4/SN offers improved TBN retention, lower oil consumption, greater wear protection, oxidation stability, excellent shear stability, and reduced high temperature deposits.

**Benefits:**

- High soot handling
- Improved sludge control
- Excellent protection for metal components from rust, corrosion and wear
- Superior oxidation stability
- Shear stable formulation
- One oil for mixed Fleets
- Exceptional oil consumption control
- Lasting TBN retention
- Excellent Low Temperature Pumpability

**Typical Physical and Chemical Properties**

| | |
|---|---|
| Viscosity Grade | 5W-40 |
| Kinematic Viscosity @100°C, cSt | 14.40 |
| Kinematic Viscosity @40°C, cSt | 88.70 |
| Viscosity Index | 170 |
| Flash Point, °C (°F) | 220(428) |
| Pour Point, °C (°F) | -42(-43.6) |
| Density, S.G | 0.861 |
| Sulfated Ash, Wt% | 1.0 |
| TBN, mgKOH/g | 11.0 |
| Cold Crank @ -30°C, cP | 6200 |

Typical values are listed. Variations not affecting the performance of this fluid may occur during production however; these variations will not fall outside of set specification parameters.

The data presented herein are believed to be accurate; however, OSP shall not be liable for its content and makes no warranty with respect thereto.

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## Approvals and Recommendations

| SPECIFICATIONS | PL 5W-40 |
|---|---|
| ACEA: | |
| E11, E9, E7 | √ |
| API: | |
| CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4 | √ |
| SN, SM, SL, SJ | √ |
| Caterpillar | |
| ECF-3, ECF-2 | √ |
| Chrysler | |
| MS-10902 | √ |
| Cummins: | |
| CES 20086, CES 20081 | √ |
| Daimler (MB) | |
| MB 228.31 | √ |
| Detroit Diesel | |
| DFS 93K222, 93K218 | √ |
| Deutz | |
| DQC III-10 LA | √ |
| Ford | |
| WSS M2C171-F1 | √ |
| Global | |
| DHD-1 | √ |
| JASO | |
| DH-2, DH-1 | √ |
| Mack | |
| EOS-4.5, EO-O Premium Plus, EO-N | √ |
| MAN | |
| M 3575 | √ |
| Mil-PRF | |
| 2104 Rev. H | √ |
| MTU | |
| 2.1 | √ |
| Navistar | |
| TSI-99-12 | √ |
| Renault | |
| RLD-4, RLD-3 | √ |
| Volvo | |
| VDS-4.5, VDS-4, VDS 3 | √ |

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