

OPTIMUM FULL SYN HD SAE 5W-40 CK-4

Performance and applications

OPTIMUM FULL SYN HD SAE 5W40 CK-4 is a premium quality, full-synthetic engine oil developed for use in four-stroke diesel engines operating under extreme conditions. It is designed for new diesel engines equipped with gas recirculation (EGR), particulate filters with or without catalyst and is backward serviceable for use in older diesel engines.

It exceeds API CK-4, CJ-4, CI-4, CI-4 Plus and SN requirements and is backward compatible. In addition, it is distinguished by:

- Excellent performance in cold weather.
- High shear stability;
- Maximum protection against wear, rust, and corrosion;
- Excellent soot control;
- Protect against sludge and varnish formation.

OPTIMUM FULL SYN HD SAE 5W40 CK-4 is recommended for all types of diesel engines for which their manufacturer specifies a lubricant from the API service classes listed.

It is particularly suitable for use in low temperature environments where extreme pumpability properties are required.

OPTIMUM FULL SYN HD SAE 5W40 CK-4 meets the following specifications: Caterpillar ECF-3, ECF-2, ECF-1-a • Cummins CES 20086 • Detroit Diesel DFS 93K222 • Deutz DQC III-10 • Ford WSS-M2C171-F1 • Mack EOS-4.5, EO-O Premium Plus, EO-N Premium Plus • Mercedes-Benz 228.31 • Renault RLD-4, RLD-3 • Volvo VDS-4.5 VDS-4, VDS-3 • ACEA E9-08, E7-04

Specifications

| | ASTM | 5W40 |
|-------------------------------------|-------------|-------------|
| Color | D1500 | 4,0 |
| Density: (kg/L @ 15 °C) | D1298 | 0,866 |
| Viscosity cSt @ 40 °C | D445 | 88,7 |
| @ 100 °C | D445 | 14,4 |
| Cold Cranking Viscosity, cP @ -30°C | D5293 | 6250 |
| Viscosity Index | D2270 | 169 |
| Flash Point, °C, (COC) | D92 | 226 °C |
| Pour Point | D97 | -42 °C |
| Total Base Number, TBN | D2896 | 10,2 |
| Sulfated Ash, (wt %) | D874 | 1.0% |

Available size

| | 18,9 L | 208,2 L | TOTE | VRAC |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|
| OPTIMUM FULL SYN HD 5W40 | 07-2154-10 | 07-2154-05 | 07-2154-04 | 07-2154-00 |