



Product Data Sheet

ENGINE OIL SHPD 15W-40

Product Description:

ENGINE OIL SHPD 15W-40 is a fuel saving MID SAPS super high performance universal oil based on 100% synthetic technology designed for high loaded diesel engines in light- and heavy commercial vehicles working under severe operating conditions through the whole year for use in Euro-4, Euro-5 and Euro-6 engines equipped with a Diesel Particle Filter (DPF) and suited for diesel engines equipped with EGR and/or SCR after treatment system.

ENGINE OIL SHPD 15W-40 is formulated with high refined base stock in combination with an unique additive package to reach the following properties:

- Excellent thermal- and oxidation stability.
- Very good dispersancy and detergency.
- High anti-foam, anti-wear and anti-corrosion properties.
- Excellent protection against "Bore Polishing".
- Extended drain intervals.
- Complies with strictest European emission regulation.

ENGINE OIL SHPD 15W-40 exceeds the following performance criteria:

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|------------------|------------------|-------------------|----------------|-----------------|
| ACEA E9/E7 | MB-228.31 | Volvo VDS-4 | MAN M3575 | MACK EO-O+ |
| API CJ-4 | Renault VI RLD-3 | Cummins CES 20081 | CAT ECF-3/2/1a | DCC PGOS 93K218 |
| Deutz DQC III-05 | MTU Type 2.1 | JASO DH-2 | Global DHD-1 | |

| Properties | Unit | Test Method | Typical Value |
|----------------------------------|--------------------|------------------|---------------|
| SAE Grade | | SAE J3000 | 15W-40 |
| Density@15°C | kg/m ³ | ASTM D4052 | 873 |
| Kin. Viscosity @40°C | mm ² /s | ASTM D7042 | 112 |
| Kin. Viscosity @100°C | mm ² /s | ASTM D7042 | 14.9 |
| Viscosity Index | | ASTM D2270 | 135 |
| Viscosity CCS @-20°C, max | cP | ASTM D2270 | 7000 |
| Flash Point COC | °C | ASTM D92 | >201 |
| Pour Point | °C | ASTM D7346 | -36 |
| Total Base Number | mgKOH/g | ASTM D2896 | 8.1 |
| Sulphated Ash | %Wt | ASTM D874 | 0.96 |

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| Product Nr: 4251 | Date Issued: 01-05-2015 | Date Superseded: 18-03-2015 | Revision nr: 2 |
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