



## Engine Oil HDX 15W-40

Product Code: 76210

Mineral Heavy Duty Diesel Engine Oil

**Engine Oil HDX 15W-40** is an extra high performance universal engine oil 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-3, Euro-4 and Euro-5 engines equipped with EGR and/or SCR. This product is not suitable for vehicles equipped with DPF filters.

**Engine Oil HDX 15W-40** is formulated with high refined solvent mineral stock in combination with a special 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.

**Engine Oil HDX 15W-40** meets the following performance criteria:

|                 |  |  |   |
|-----------------|--|--|---|
| <b>Approved</b> | MB-Approval 228.3<br>Mack EO-N   | Volvo VDS-3  | Renault RLD-2                                     |
| <b>Meets</b>    | API CI-4/ SL<br>Caterpillar ECF-1a<br>Deutz DQC-III<br>Cummins CES 20077/20078 | ACEA E7<br>Caterpillar ECF-2<br>MTU Type 2<br>Global DHD-1 | MB 228.1<br>JASO DH-1<br>MAN M 3275<br>DDC 93K215 |

### Typical Analysis

| Properties            | Unit               | Method     | Typical Value |
|-----------------------|--------------------|------------|---------------|
| SAE Grade             |                    | SAE J300   | 15W-40        |
| Density @15°C         | kg/m <sup>3</sup>  | ASTM D4052 | 863           |
| Kin. Viscosity @40°C  | mm <sup>2</sup> /s | ASTM D7042 | 105           |
| Kin. Viscosity @100°C | mm <sup>2</sup> /s | ASTM D7042 | 14.2          |
| Viscosity Index       |                    | ASTM D2270 | 137           |
| Viscosity CCS @-20°C  | cP                 | ASTM D5293 | 6100          |
| Flash Point COC       | °C                 | ASTM D92   | 225           |
| Pour Point            | °C                 | ASTM D7346 | -33           |
| Total Base Number     | mgKOH/g            | ASTM D2896 | 11.2          |
| Sulphated Ash         | %Wt                | ASTM D874  | 1.5           |

|                         |                        |                  |
|-------------------------|------------------------|------------------|
| Date Issued: 12-07-2022 | Supersedes: 09-11-2021 | Revision Nr.: 06 |
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