

## **Engine oils**

### **ISO L-E**

# **FENIX<sup>®</sup> SUPERIOR SAE 15W-40**

High quality multigrade mineral base SHPD (Super High Performance Diesel) engine oil required by the manufacturers of high-speed diesel engines. This oil provides protection against wear of the cylinder, it has excellent detergent properties that prevent the formation of deposits in the engine, which ensures long oil change period.

#### **ADVANTAGES**

- High alkaline reserve level;
- Excellent shear stability;
- Exceptional thermal and oxidation stability;
- Improved protection against wear and corrosion of engine parts;
- Easy engine start and application at all seasons;
- Improved cold start compared to monograde engine oils;
- Low volatility.

#### **QUALITY LEVEL**

|                         |                       |
|-------------------------|-----------------------|
| ISO 6743-15             | VOLVO VDS-3           |
| API CI-4/CH-4/CF/SL     | Global DHD-1          |
| ACEA E7-12              | MACK EO-M Plus/ EO-N  |
| MB Approval 228.3       | RLD/RLD-2             |
| MAN M3275               | CAT ECF-1a/ECF-2      |
| MTU Type 2              | DEUTZ DQC III-10      |
| Cummins CES 20076/77/78 | Detroit Diesel 93K215 |

#### **APPLICATION**

FENIX<sup>®</sup> SUPERIOR SAE 15W-40 is used for the lubrication of four-stroke diesel and gasoline engines of passenger and commercial vehicles, construction, mining and agricultural machinery engines, as well as stationary drive units, including highly pre-charged engines that operate in the most difficult working conditions. It is also used for rail and marine diesel engines. With its quality, it provides top results for use in mixed fleets. It is suitable for use in EURO III, EURO IV and most of EURO V engines without DPF filters.

#### TYPICAL CHARACTERISTICS

|                                                  | TYPICAL VALUE | METHOD           |
|--------------------------------------------------|---------------|------------------|
| Density at 15°C, g/ml                            | 0,88          | SRPS EN ISO 3675 |
| Kinematic viscosity at 40°C, mm <sup>2</sup> /s  | 116           | SRPS ISO 3104    |
| Kinematic viscosity at 100°C, mm <sup>2</sup> /s | 15.5          | SRPS ISO 3104    |
| Viscosity index                                  | 140           | SRPS ISO 2909    |
| Dynamic viscosity at -20°C, mPas                 | 6850          | DIN 53018/1      |
| Flash point, °C                                  | 220           | SRPS EN ISO 2592 |
| Pour point, °C                                   | -33           | SRPS ISO 3016    |
| TBN, mg KOH/g                                    | 10            | SRPS ISO 3771    |
| Sulphated ash, %                                 | 1,2           | SRPS ISO 3987    |

#### STORAGE

Store in covered area. If stored outdoors, it is necessary to place the drums in a horizontal position to prevent the accumulation of water on the surface of the drum. Do not store at elevated temperatures or in locations exposed to direct sunlight.

All necessary instructions can be found in the product SDS. It contains the details of possible hazards, warnings and first aid measures, as well as the impact on the environment and the necessary measures for the storage and handling.

#### PACKING

Drums 175kg, 60L, plastic containers of 1L, 5L, 10L and 20L.

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Data are orientational, manufacturer reserves the right to make changes in order to improve product quality.

