

# GOLDENSTONE® SUPER SHPD SAE 15W-40

## Technical Data Sheet (TDS)

### ULTRA HIGH PERFORMANCE DIESEL ENGINE OIL

#### Description and Application

**Goldenstone® Super SHPD 15W-40** is a new category engine oil of medium SAPS level intended for moderately extended oil drain intervals. This oil is based on API Group II base oils as per the new motor oil tendencies and complies with the requirements imposed by the heavy duty diesel engines bio-diesel fuel in accordance with EU regulations.

This lubricant is designated for the lubrication of the most modern heavy duty and heavy-loaded diesel engines used in international haulage and equipped with the modern aftertreatment systems (EGR or SCR) for hazardous NOx reduction and/or diesel particulate filters (DPF) combined with low-sulphur diesel fuels.

**Goldenstone® Super SHPD 15W-40** multigrade engine oil is recommended for highly rated diesel engines complying with Euro IV, Euro V & Euro VI low emission standards and operated under severe loads and conditions.

#### Benefits

- Protection against cylinder bore polishing and wear
- High engine cleanliness with considerably extended drain intervals up to 60 000 km
- Problem-free operation even in case of a heavily sooted oil
- High temperature thickening protection
- Bearing corrosion protection
- Foam control
- Easy engine start-ups even at very low sub-zero temperatures

#### Specifications

|                | SAE 15W-40           |
|----------------|----------------------|
| ACEA           | E9/E7                |
| API            | CJ-4/SM              |
| MB             | 228.31               |
| MAN            | M 3575-1             |
| Volvo          | VDS-4                |
| Renault Trucks | RLD-3                |
| MTU            | Type 2.1             |
| Scania         | Low Ash              |
| Deutz          | DQC III-10-LA        |
| Caterpillar    | ECF-3, ECF-2, ECF-1a |
| Cummins        | CES 20081            |
| Mack           | EO-O Premium Plus    |
| Detroit Diesel | 93K218               |

#### Typical Characteristics

| Parameter  | Test Method | Typical Value |
|--|-------------|---------------|
| Density at 20°C, g/ml                            | EN ISO 3675 | 0.882         |
| Kinematic Viscosity at 100°C, mm <sup>2</sup> /s | EN ISO 3104 | 14.8          |
| Kinematic Viscosity at 40°C, mm <sup>2</sup> /s  | EN ISO 3104 | 109           |
| Viscosity Index                                  | ISO 2909    | 140           |
| Flash point COC, °C                              | EN ISO 2592 | 234           |
| Pour point, °C                                   | ISO 3016    | -33           |
| TBN (HClO <sub>4</sub> ), mg KOH/g               | ASTM D 2896 | 9.5           |
| Sulfated Ash, %                                  | EN ISO 3987 | 1.0           |

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Goldenstone Europe APS

### **Health, Safety and Handling**

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application.

For more information about product MSDS, terms and conditions for storage and shelf life please visit:

<http://www.goldenstoneoils.com>

### **Packages**

20L, 210L, 1000L

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