

# GOLDENSTONE® SHPD VDS-3 10W-40

## Technical data Sheet (TDS) HEAVY DUTY DIESEL ENGINE OILS

### Description and Application

Goldenstone® SHPD VDS-3 10W-40 multigrade engine oil is formulated with exceptionally high quality and carefully balanced blend of solvent refined, hydrotreated and synthetic base stocks and high performance additive technology to provide superb performance and excellent durability in service.

Goldenstone® SHPD VDS-3 10W-40 is recommended for highly rated diesel engines in commercial vehicles, trucks, buses and equipment in road construction and agricultural industry meeting Euro I, Euro II, Euro III, Euro IV and Euro V emission requirements and running under severe conditions.

It is suitable for engines without particulate filters, and for most EGR engines and most engines fitted with SCR NOx reduction systems

### 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 10W-40
ACEA	E7
API	CI-4/SL
MB	228.3*
MAN	M 3275-1
Volvo	VDS-3
Renault Trucks	RLD-2
Cummins	200 76/77/78
Caterpillar	ECF-2
Mack	EO-N, EO-M Plus
MTU	Type 2
Global	DHD-1
Detroit Diesel	93K215
Deutz	DQC III-10

\*MB-Approval 228.3

### Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	0.873
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s	EN ISO 3104	14.1
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	96.3
Viscosity Index	ISO 2909	150
Flash point COC, °C	EN ISO 2592	220
Pour point, °C	ISO 3016	-33
TBN (HClO <sub>4</sub> ), mg KOH/g	ASTM D 2896	10.5
Sulfated Ash, %	EN ISO 3987	1.35

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.

### 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.

Goldenstone Europe

For more information about product MSDS, terms and conditions for storage and shelf life please visit:  
[www.goldenstoneoils.com](http://www.goldenstoneoils.com)

## Packages

20L, 210L, 1000L

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