



# PRISTA® SHPD VDS-3

## HEAVY DUTY DIESEL ENGINE OILS

### Description and Application

**Prista® SHPD VDS-3** multigrade engine oils are formulated with exceptionally high quality and carefully balanced blend of solvent refined and hydrotreated base stocks and high-performance additive technology to provide superb performance and excellent durability in service.

**Prista® SHPD VDS-3** are 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.

They are 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 15W-40	SAE 20W-50
ACEA	E7; A3/B4	E7
API	CI-4/CH-4/SL	CH-4/SJ
Daimler Trucks	DTFR 15B110	DTFR 15B110
MB – old specification	228.3	228.3
MAN	M 3275-1	M 3275-1
Volvo	VDS-3	-
Renault Trucks	RLD/RLD 2	-
Cummins CES	200 76/77/78	-
Caterpillar	ECF-2, ECF-1-a	ECF-1-a
Mack	EO-N, EO-M Plus	-
MTU	Type 2	-
Global	DHD-1	-
Deutz	DQC III-10	-
Detroit Diesel	93K215	-

### Typical Characteristics

Parameter	Test Method	Typical Value	
		SAE 15W-40	SAE 20W-50
Density at 20°C, g/ml	EN ISO 3675	0.882	0.887
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s	EN ISO 3104	14.4	18.9
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	EN ISO 3104	108.9	169.2
Viscosity Index	ISO 2909	135	127
Flash point COC, °C	EN ISO 2592	226	232
Pour point, °C	ISO 3016	-30	-24
TBN (HClO <sub>4</sub> ), mg KOH/g	ASTM D2896	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.

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