



## HEAVY DUTY DIESEL ENGINE OIL PRISTA SHPD VDS-3 15W-40

### DESCRIPTION and APPLICATION

**PRISTA SHPD VDS-3 15W-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.

**PRISTA SHPD VDS-3 15W40** 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.

### SPECIFICATIONS

ACEA	E7-08 Iss 2, E7/B4/A3-07
API	CI-4/CH-4/CG-4/CF-4/SL
MB APPROVAL	228.3
MAN	M 3275
VOLVO	VDS-3
RENAULT TRUCKS	RLD/ RLD 2
CUMMINS	200 76/77/78

CATERPILLAR	ECF-2, ECF-1a
MACK	EO-N, EO-M Plus
MTU	Type 2
GLOBAL	DHD-1

### 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

### 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.

Material safety data sheet is available on [www.prista-oil.com](http://www.prista-oil.com)

### PACKING

20L, 210L, 1000L, Bulk

### TYPICAL CHARACTERISTICS

	PARAMETER	TYPICAL VALUE	TEST METHOD
1.	Density at 20°C, g/ml	0.882	EN ISO 3675
2.	Kinematic Viscosity at 100°C, mm <sup>2</sup> /s	14.4	EN ISO 3104
3.	Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	108.9	EN ISO 3104
4.	Viscosity Index	135	ISO 2909
5.	Apparent viscosity( CCS) at minus 20°C, mPa.s	6500	ASTM D 5293
6.	HTHS viscosity, mPa.s	4.0	CEC-L-36-A-97
7.	Flash point COC, °C	220	EN ISO 2592
8.	Pour point, °C	-28	ISO 3016
9.	TBN (HClO <sub>4</sub> ), mg KOH/g	10.5	ASTM D 2896
10.	Sulfated Ash, %	1.35	EN ISO 3987