

# DINARA OIL®

Vaš kod za ulja i maziva

## TECHNICAL INFORMATIONS ABOUT THE PRODUCT SYNTHETIC OIL FOR COMMERCIAL VEHICLES

### UNIVERSAL D SHPD SAE 15W40, SAE 20W50

**UNIVERZAL D SHPD SAE 15W40, SAE 20W50** are a high quality motor multigrade mineral base oils from the SHPD (Super Hige Performance Diesel) LONG LIFE oil series intended for the lubrication of four-stroke diesel engines of trucks, city and intercity vehicles, mining, agricultural and construction machines, operating in harsh working conditions and under heavy loads. Recommended for lubrication of the latest generation engines with EGR. Not recommended for engines with DPF particulate filters.

Advantages:

- safe operation of the engine in all operating conditions;
- stable viscosity in a wide range of working machines;
- does not form deposits and sediments, so it ensures good cleanliness of the engine and longer service life;
- meets extended oil change periods in accordance with the recommendations of vehicle and equipment manufacturers.

**QUALITY LEVEL: API CI-4/CH-4/CG-4/CF/SL ; ACEA E7/E5/E3/B4/B3/A3; MB 228.3/MB229.1; MAN 3275, VOLVO VDS-3; Cummins CES 20076/77/78; ALISON C-4, MACK EO-N /EO-M PLUS Caterpillar ECF-2/1a, Detroit Diesel DDC 93K215, Deutz QDC III-10**

### PHYSICAL - CHEMICAL CHARACTERISTICS

Characteristics	Units	Typical values		Test methods
		SAE 15W40	SAE 20W50	
Density on 15 °C	g/cm <sup>3</sup>	0,88	0,89	SRPS EN ISO 3675
Kinetic viscosity at 100 °C	mm <sup>2</sup> /s	14,5-16,3	18,5	SRPS ISO 3104
Viscosity index	-	135	130	SRPS ISO 2909
Point of ignition, COC	°C	220	230	SRPS ISO 2592
Pour point	°C	-35	-27	SRPS ISO 3016
Total base number (TBN)	mgKOH/g	10	10	SRPS ISO 3771
Foaming, max sequence I, sequence I, sequence III	mL/mL	10/0, 20/0, 10/0	10/0, 20/0, 10/0	SRPS ISO 6247

### PURPOSE

**UNIVERSAL D SHPD SAE 15W40, SAE 20W50** are an engine oils for the lubrication of high-power four-stroke diesel engines, with and without turbocharging, of trucks, buses, agricultural and construction machinery which are operating under the heavy loads. Suitable for lubrication of most EGR engines and most SCR engines, vehicles without particulate filter (DPF), Euro 3 generation and most of Euro 4 and Euro 5 engines.

Oil change is done according to the vehicle manufacturer's recommendations, but the common recommendation is 25 000 - 30 000 km.

### STORAGE

**UNIVERSAL D SHPD SAE 15W40, SAE 20W50** - should be stored in their original packaging protected from the direct influence of the atmosphere.

### PACKAGING:

1 L	5 L	10 L	20 L	200 L	1000 L
		x 2 pcs	x	x	x