



## Typical Chemical Characteristics

### Product:

### Hercules SHPD SAE 15W-40 “Euro II, III, IV & V”

### Description:

High quality mineral lubricant with high quality additives for high speed and for super high performance diesel engines (SHPD). It is recommended for engines without particulate filters, and for engines equipped with EGR or with SCR NOx reduction system where the manufacturer suggests Full SAPS technology oil. Its synthesis provides “stay in grade” viscosity stability after mechanical exhaustion, engine's parts cleanliness from carbon deposits, excellent wear control, soot handling etc. It meets Euro I, Euro II, Euro III, Euro IV & Euro V emission requirements even under severe conditions.

### Characteristics:

Property	Method	Unit	20W-50	15W-40
Specific Gravity 15°C	ASTM D 1298	kg/L	0,887	0,883
Viscosity at 100°C	ASTM D 445	cSt	16,3 – 21,9	12,5 – 16,3
Viscosity Index	-	-	>120	>120
Pour Point	ASTM D 97	°C	<20	<20
Flash Point	ASTM D 92	°C	>210	>210
Total Base Number	ASTM D 2896	mgKOH/g	>9,5	>9,5
Color	-	-	Crystal gold	Crystal gold
Cold Cranking Simulator	ASTM D 5293	mPa-s	<4500 @ -10°C	<3500 @ -15°C

### Specifications:

ACEA: E7-08 issue 2, A3/B4-10 & A3/B3-10,  
 API: CI-4/CF/SL, MB p228.3, Volvo VDS-3,  
 MAN 3275, MTU Type 2, Cummins 20076/77/78,  
 Mack EO-M plus, Caterpillar ECF-1a, Deutz DQC-III-05,  
 Renault RLD-2, Detroit Diesel DDC 93K215 & JASO DHD-1

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