

# CHAMPION NEW ENERGY

## 10W30 HD

This is a semi synthetic lubricant based on carefully selected very high quality base oils of the latest generation, for the lubrication of all diesel engines in on- and off-highway applications. The excellent fluidity at variable temperature conditions reduces wear and fuel consumption. Its high thermal stability and embedded dispersants allows longer oil drain intervals and keeping the engine parts cleaner in more extreme conditions.

### APPLICATIONS

This oil is suitable for heavy-duty on- and off-highway applications, agriculture and construction.

### FEATURES

Total engine protection: outstanding engine cleanliness and durability

Cold start: very good fluidity at low temperature

### PERFORMANCE

<b>ACEA</b>	A3/B4-12	<b>MACK</b>	EO-M PLUS
<b>ACEA</b>	E7-12	<b>MACK</b>	EO-N
<b>API</b>	CI-4/SL	<b>MAN</b>	M3275
<b>CATERPILLAR</b>	ECF-2	<b>MB</b>	228.3
<b>CUMMINS</b>	CES 20077	<b>MB</b>	229.1
<b>CUMMINS</b>	CES 20078	<b>MTU</b>	Oil Category 2
<b>DEUTZ</b>	DQC-III-10	<b>RENAULT</b>	RLD-2
<b>GLOBAL</b>	DHD-1	<b>VOLVO</b>	VDS-3

### TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.857
Kinematic viscosity at 40°C	ASTM D445	mm²/s	78
Kinematic viscosity at 100°C	ASTM D445	mm²/s	11.0
Viscosity index	ASTM D2270		152
B.N. [HCL04 method]	ASTM D2896	mg KOH/g	10.2
Pour point	ASTM D6892	°C	-36

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

#### CHAMPION CHEMICALS NV

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