

# CHAMPION NEW ENERGY

## 10W-40 HVI

This is a high viscosity index (HVI) semi synthetic lubricant based on carefully selected highly refined base oils. This oil is designed to meet the latest specifications of both European and American manufacturers of heavy diesel engines. It provides excellent protection against deposits in oil pipes, turbo's and provides improved protection against camshaft wear.

### APPLICATIONS

Suitable for low-emission engines in the Euro II and Euro III standards. It is not suitable for Euro IV engines with particulate filter. It allows very long drain intervals.

### FEATURES

Total engine protection: outstanding engine cleanliness and durability.  
Cold start: very good fluidity at low temperature

### SPECIFICATIONS

ACEA	A3/B4
ACEA	E7
API	CF-4
API	CG-4
API	CH-4
API	CI-4/SL
ALLISON	C4
CATERPILLAR	ECF-1a
CATERPILLAR	ECF-2
CATERPILLAR	TO-2
CUMMINS	CES 20076
CUMMINS	CES 20077
CUMMINS	CES 20078
DETROIT DIESEL	DFS 93K215
DEUTZ	DQC-III-10
DEUTZ	DQC-III-18
DTFR	15B110
GLOBAL	DHD-1
MACK	EO-M PLUS
MACK	EO-N
MAN	M3275-1
MB	229.1
MTU	Oil Category 1
MTU	Oil Category 2
RENAULT	RLD
RENAULT	RLD-2
VOLVO	VDS-3

#### CHAMPION CHEMICALS NV

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[www.championlubes.com](http://www.championlubes.com)





## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.870
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	97.3
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	14.8
Viscosity index	ASTM D2270		161
B.N. (HCL04 method)	ASTM D2896	mg KOH/g	11.4
Pour point	ASTM D6892	°C	-36
CCS viscosity at -25°C	ASTM D5293	mPa.s	5800
Sulfated Ash	ASTM D874	Mass %	1.49
Flash Point COC	ASTM D92	°C	220

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

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