

# CHAMPION OEM SPECIFIC 10W30 MS EXTRA

*This heavy-duty diesel engine oil is a semi-synthetic lubricant offering exceptional wear resistance. It is capable of maintaining its original composition thanks to its outstanding oxidation resistance, shear resistance and aeration control, giving it an increased drain interval compared to previous formulations.*

## APPLICATIONS

*Both modern and older engines benefit from the backward compatible heavy-duty diesel engine oil for most OEMs, making it a perfect match for a wide range of engine types. It is capable of offering optimal protection to a range of Caterpillar, Mack, Renault, Volvo and other market-leading engines with or without after-treatment system, turbocharger or supercharger. It is compatible with emission control technology EURO IV, V and VI for trucks; as well as stage IIIB, IV and Tier 4i, 4f for heavy-duty off-road.*

## FEATURES

*Improved engine cleanliness: Improved engine cleanliness*

*High wear protection: High wear protection*

*Increased oxidative stability: extended optimal oil performance.*

## SPECIFICATIONS

<b>ACEA</b>	E11	<b>MACK</b>	approval EO-S 4.5
<b>ACEA</b>	E9-16	<b>MACK</b>	EO-M PLUS
<b>API</b>	approval CI-4 Plus	<b>MACK</b>	EO-N
<b>API</b>	approval CK-4	<b>MACK</b>	EO-N Premium Plus
<b>API</b>	CI-4	<b>MACK</b>	EO-O Premium Plus
<b>API</b>	CJ-4	<b>MAN</b>	M3575
<b>JASO</b>	DH-1	<b>MAN</b>	M3775
<b>JASO</b>	DH-2	<b>MB</b>	228.31
<b>ALLISON</b>	C4	<b>MTU</b>	Oil Category 2.1
<b>CATERPILLAR</b>	ECF-1a	<b>RENAULT</b>	approval RLD-3
<b>CATERPILLAR</b>	ECF-2	<b>RENAULT</b>	RGD
<b>CATERPILLAR</b>	ECF-3	<b>RENAULT</b>	RLD
<b>CATERPILLAR</b>	TO-2	<b>RENAULT</b>	RLD-2
<b>CUMMINS</b>	CES 20076	<b>RENAULT</b>	RLD-4
<b>CUMMINS</b>	CES 20077	<b>RENAULT</b>	RXD
<b>CUMMINS</b>	CES 20078	<b>VOLVO</b>	approval VDS-4.5
<b>CUMMINS</b>	CES 20081	<b>VOLVO</b>	VDS-3
<b>CUMMINS</b>	CES 20086	<b>VOLVO</b>	VDS-4
<b>DAF</b>	PSQL 2.1 E		
<b>DAIMLER TRUCK</b>	DTFR 15C100		
<b>DETROIT DIESEL</b>	DFS 93K215		
<b>DETROIT DIESEL</b>	DFS 93K218		
<b>DETROIT DIESEL</b>	DFS 93K222		
<b>DEUTZ</b>	DQC-III-10 LA		
<b>DEUTZ</b>	DQC-III-18 LA		
<b>FORD</b>	WSS-M2C171-F1		
<b>JD</b>	JDQ-78X		

### CHAMPION CHEMICALS NV

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

**CHAMPION**  
LUBRICANTS



## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.860
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	74.1
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	11.6
Viscosity index	ASTM D2270		151
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	8.2
Pour point	ASTM D6892	°C	-39
Sulfated Ash	ASTM D874	Mass %	1.0
Flash Point COC	ASTM D92	°C	232

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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