

# CHAMPION OEM SPECIFIC 10W40 MS EXTRA

This semi-synthetic lubricant extends the lifespan of the equipment by offering excellent wear resistance and engine cleanliness. The high level of wear resistance is obtained through the additive package's outstanding oxidation resistance, shear resistance and aeration control. The formulation is altered to extend the lifespan of the application compared to previous comparable engine oil formulations.

## APPLICATIONS

A wide range of different original equipment manufacturer specifications are met by this excellent heavy-duty engine oil. This engine oil's full backward compatibility with the CJ-4 specification turns it into a versatile solution for both on- and off-road applications. 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

Extended wear protection: extended lifespan of the equipment.

Improved shear stability: extended optimal oil performance.

Improved engine cleanliness: increased vehicle uptime.

## SPECIFICATIONS

<b>ACEA</b>	E11	<b>MACK</b>	E0-M PLUS
<b>ACEA</b>	E9-16	<b>MACK</b>	E0-N
<b>API</b>	CI-4	<b>MACK</b>	E0-N Premium Plus
<b>API</b>	CI-4 Plus	<b>MACK</b>	E0-0 Premium Plus
<b>API</b>	CJ-4	<b>MAN</b>	approval M3775
<b>API</b>	CK-4	<b>MAN</b>	M3575
<b>JASO</b>	DH-1	<b>MB</b>	228.31
<b>JASO</b>	DH-2	<b>MTU</b>	Oil Category 2.1
<b>ALLISON</b>	C4	<b>RENAULT</b>	approval RLD-3
<b>CATERPILLAR</b>	ECF-1a	<b>RENAULT</b>	RGD
<b>CATERPILLAR</b>	ECF-2	<b>RENAULT</b>	RLD
<b>CATERPILLAR</b>	ECF-3	<b>RENAULT</b>	RLD-2
<b>CATERPILLAR</b>	TO-2	<b>RENAULT</b>	RLD-4
<b>CUMMINS</b>	CES 20076	<b>RENAULT</b>	RXD
<b>CUMMINS</b>	CES 20077	<b>VOLVO</b>	approval VDS-4.5
<b>CUMMINS</b>	CES 20078	<b>VOLVO</b>	VDS-3
<b>CUMMINS</b>	CES 20081	<b>VOLVO</b>	VDS-4
<b>CUMMINS</b>	CES 20086		
<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>	approval DQC-III-18 LA		
<b>DEUTZ</b>	DQC-III-10 LA		
<b>FORD</b>	WSS-M2C171-F1		
<b>JD</b>	JDQ-78X		
<b>MACK</b>	approval E0-S 4.5		

### 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	0.859
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	87.5
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	13.8
Viscosity index	ASTM D2270		162
B.N. (HCL04 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	224

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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