

CHAMPION OEM SPECIFIC 15W40 MS EXTRA

Keeping the engine in optimal condition, therefore increasing vehicle uptime, is the core task of this low SAPS oil. It achieves this by offering high wear resistance and complete engine cleanliness, optimising vehicle uptime compared to previous engine oil formulations. The engine oil's high viscosity grade enables this engine oil to maintain its excellent protective properties, even in hot climates and rough conditions.

APPLICATIONS

This versatile product meets the requirements of challenging specifications like the Mack EO-S 4.5, Renault RLD-4 or Volvo VDS-4.5. It is backward compatible with preceding oil categories like CJ-4, suiting the needs of both recent and older engines. 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: increased operating hours

High wear protection: increased engine lifespan

Increased oxidative stability: extended optimal oil performance

SPECIFICATIONS

ACEA	E11	MACK	EO-N
ACEA	E9-16	MACK	EO-N Premium Plus
API	approval CK-4/SN	MACK	EO-0 Premium Plus
API	CI-4	MAN	approval M3775
API	CI-4 Plus	MAN	M3575
API	CJ-4	MB	228.31
JASO	DH-2	MTU	approval Oil Category 2.1
ALLISON	C4	RENAULT	approval RLD-3
CASE	MAT 3571	RENAULT	RGD
CASE	MAT 3572	RENAULT	RLD
CATERPILLAR	ECF-1a	RENAULT	RLD-2
CATERPILLAR	ECF-2	RENAULT	RLD-4
CATERPILLAR	ECF-3	RENAULT	RXD
CATERPILLAR	TO-2	VOLVO	approval VDS-4.5
CUMMINS	CES 20076	VOLVO	VDS-3
CUMMINS	CES 20077	VOLVO	VDS-4
CUMMINS	CES 20078		
CUMMINS	CES 20081		
CUMMINS	CES 20086		
DAIMLER TRUCK	approval DTFR 15C100		
DETROIT DIESEL	DFS 93K222		
DEUTZ	approval DQC-III-18 LA		
DEUTZ	DQC-III-10 LA		
FORD	WSS-M2C171-F1		
JD	JDQ-78X		
MACK	approval EO-S 4.5		
MACK	EO-M PLUS		

CHAMPION CHEMICALS NV

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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 ² /s	92.5
Kinematic viscosity at 100°C	ASTM D445	mm ² /s	13.7
Viscosity index	ASTM D2270		150
B.N. (HClO4 method)	ASTM D2896	mg KOH/g	8.2
Pour point	ASTM D6892	°C	-36
Sulfated Ash	ASTM D874	Mass %	1.0
Flash Point COC	ASTM D92	°C	226

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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