

# CHAMPION OEM SPECIFIC 5W-30 UHPD LS

The state-of-the-art wear-reducing additives contained within this full synthetic ACEA E8/E11 low SAPS engine oil are engineered to combine stable oil performance with excellent engine protection, resulting in longer drain intervals without ever compromising on engine protection. The ultra-thin protective oil film retains its excellent protective properties over a wide range of temperatures. Furthermore, this low SAPS engine oil has high shear resistance, cutting down on maintenance costs by further optimizing drain intervals.

## APPLICATIONS

Both off- and on-road heavy-duty applications with or without turbochargers, superchargers or after-treatment systems can be serviced with this ACEA E8/E11 low SAPS engine oil. It meets the specifications of a wide range of high-demanding OEM specifications including the newest of DAF and Daimler Truck. Thanks to its backward compatibility, this versatile engine oil can be used in both modern 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

Aftertreatment protection: full aftertreatment system protection

Fuel economy: superior fuel economy and CO<sub>2</sub> reduction

Total engine protection: outstanding engine cleanliness and durability

## PERFORMANCE

ACEA	E11	DEUTZ	approval DQC-IV-18 LA
ACEA	E6-16	DEUTZ	DQC IV-10 LA
ACEA	E7	FORD	WSS-M2C213-A1
ACEA	E8	IVECO	18-1804 Classe TLS E9
ACEA	E9-16	MACK	approval EO-S 4.5
API	CJ-4	MACK	EO-0 Premium Plus
API	CK-4	MAN	approval M3677
API	SN	MAN	approval M3775
JASO	DH-2	MAN	M3271-1
CATERPILLAR	ECF-3	MAN	M3477
CUMMINS	CES 20081	MB	228.31
CUMMINS	CES 20086	MB	228.51
DAF	EXTENDED DRAIN	MB	228.52
DAF	PSQL 2.1 E	MB	235.28
DAF	PSQL 2.1 E LD	MTU	Oil Category 2.1
DAIMLER TRUCK	approval DTFR 15C120	RENAULT	approval RLD-3
DAIMLER TRUCK	DTFR 13D110	RENAULT	RLD-2
DAIMLER TRUCK	DTFR 15C100	SCANIA	approval LDF-4
DAIMLER TRUCK	DTFR 15C110	VOLVO	approval VDS-4.5
DETROIT DIESEL	DFS 93K218	VOLVO	VDS-3
DETROIT DIESEL	DFS 93K222	VOLVO	VDS-4

### CHAMPION CHEMICALS NV

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## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average results
Density at 15°C	ASTM D4052	g/ml	0.855
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	72.4
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	12.2
Viscosity index	ASTM D2270		167
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	10
Pour point	ASTM D6892	°C	-36
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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