

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 CO2 reduction

Total engine protection: outstanding engine cleanliness and durability

SPECIFICATIONS

| | | | |
|-----------------------|-----------------------|-----------------|-----------------------|
| ACEA | E11 | DEUTZ | DQC IV-10 LA |
| ACEA | E6-16 | DEUTZ | DQC-IV-10 |
| ACEA | E7 | DEUTZ | TTCD |
| ACEA | E8 | DTFR | 13D110 |
| ACEA | E9-16 | DTFR | 15C100 |
| API | CI-4 | DTFR | approval 15C110 |
| API | CJ-4 | DTFR | approval 15C120 |
| API | CK-4 | FORD | WSS-M2C213-A1 |
| API | SN | IVECO | 18-1804 Classe TLS E9 |
| JASO | DH-2 | LIEBHERR | LH-00-ENG LA |
| AGCO/ALLIS | POWER LOCC-G2 | LIEBHERR | LH-00-ENG3A LA |
| CATERPILLAR | ECF-3 | LIEBHERR | LH-00-ENG5C LA |
| CUMMINS | CES 20077 | MACK | approval EO-S 4.5 |
| CUMMINS | CES 20081 | MACK | EO-M PLUS |
| CUMMINS | CES 20086 | MACK | EO-N |
| DAF | EXTENDED DRAIN | MACK | EO-N Premium Plus |
| DAF | PSQL 2.1 E | MACK | EO-O Premium Plus |
| DAF | PSQL 2.1 E LD | MAN | approval M3677 |
| DAF | PSQL 2.4 | MAN | approval M3691 |
| DAF | PSQL 2.4 LD | MAN | approval M3775 |
| DETROIT DIESEL | DFS 93K218 | MAN | M3271-1 |
| DETROIT DIESEL | DFS 93K222 | MAN | M3277 |
| DEUTZ | approval DQC-IV-18 LA | MAN | M3477 |

CHAMPION CHEMICALS NV

G. Gilliatstraat 52 - 2620 Hemiksem - Belgium

Tel. +32 3 870 00 00

www.championlubes.com



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|----------------|------------------|----------------|--------------------------|
| MB | 235.28 | RENAULT | RLD-4 |
| MTU | Oil Category 2.1 | RENAULT | RXD |
| MTU | Oil Category 3 | SCANIA | approval LDF-4 |
| MTU | Oil Category 3.1 | SCANIA | LDF-3 [excl. V8 engines] |
| RENAULT | approval RLD-3 | VOITH | Retarder Oil Class B |
| RENAULT | RGD | VOLVO | approval VDS-4.5 |
| RENAULT | RLD | VOLVO | VDS-3 |
| RENAULT | RLD-2 | VOLVO | VDS-4 |

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 ² /s | 72.4 |
| Kinematic viscosity at 100°C | ASTM D445 | mm ² /s | 12.2 |
| Viscosity index | ASTM D2270 | | 167 |
| B.N. [HClO4 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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