



## KROSS 5W30 CK-4 FULL SYNTHETIC DPF

The state of the art wear-reducing additives contained within this synthetic engine oil are engineered to combine stable oil performance with excellent engine protection, resulting in extended 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, the engine oil has high shear resistance, cutting down on maintenance costs by further extending drain intervals.

### APPLICATIONS

Both off- and on-road heavy-duty applications with or without turbochargers, superchargers or aftertreatment systems can be serviced with this engine oil. It meets the specifications of a wide range of high-demanding specifications including the Scania LDF-4. 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.

### MEETS OR EXCEEDS

ACEA E11 ACEA E4 ACEA E6-16 ACEA E7 ACEA E8 ACEA E9-16 API CI-4 API CI-4+ API CJ-4 API CK-4 API SN JASO DH-1-17 JASO DH-2-17 JASO DL-0-17 CATERPILLAR ECF-3 CUMMINS CES 20077 CUMMINS CES 20081 CUMMINS CES 20086 DAF EXTENDED DRAIN DAF PSQL 2.1 E DAF PSQL 2.1 E LD DAIMLER TRUCK DTFR 15C110 DAIMLER TRUCK DTFR 15C120 DAIMLER TRUCK DTFR 13D110 DAIMLER TRUCK DTFR 15C100 DETROIT DIESEL DFS 93K218 DETROIT DIESEL DFS 93K222 DEUTZ DQC-IV-18 LA DEUTZ DQC IV-10 LA DEUTZ TTCD FORD WSS-M2C213-A1 IVECO 18-1804 Classe TFE IVECO 18-1804 Classe TLS E6 IVECO 18-1804 Classe TLS E9 MACK EO-S 4.5 MACK EO-M PLUS MACK EO-N MACK EO-N Premium Plus MACK EO-O Premium Plus MAN M3677 MAN M3777 MAN M3271-1 MAN M3277 MAN M3477 MAN M3575 MAN M3691 MAN M3775 MB 228.31 MB 228.5 MB 228.51 MB 228.52 MB 235.28 MTU Oil Category 2.1 MTU Oil Category 3 MTU Oil Category 3.1 RENAULT RLD-3 RENAULT RGD RENAULT RLD RENAULT RLD-2 RENAULT RLD-4 RENAULT RXD SCANIA LDF-4 SCANIA LDF-3 VOITH Retarder Oil Class B VOLVO VDS-4.5 VOLVO VDS-3 VOLVO VDS-4.

The product has been blended to meet the above performance levels.

### SIZES & PACKAGING



## TYPICAL CHARACTERISTICS

Test	Method	Unit	Average Results
Density at 15°C	ASTM D4052	g/ml	0.858
Kinematic viscosity at 40°C	ASTM D445	mm <sup>2</sup> /s	70.8
Kinematic viscosity at 100°C	ASTM D445	mm <sup>2</sup> /s	12.2
Viscosity index	ASTM D2270		171
B.N. (HClO <sub>4</sub> method)	ASTM D2896	mg KOH/g	13.4
Pour point	ASTM D6892	°C	-39
Sulfated Ash	ASTM D874	Mass %	1.0
Flash Point COC	ASTM D92	°C	214

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.

## SIZES & PACKAGING



1LT



4LT



5LT



20LT



60LT



200LT



1000LT

