

Rubia Works 4000 0W-40

Diesel Engine Oil

KEY DATA



Synthetic "Low SAPS" diesel engine oil especially developed for earthmoving, mining and quarries machinery engines.

INTERNATIONAL STANDARDS

🔥 API CK-4

MEETS THE REQUIREMENTS OF

🔥 CUMMINS CES 20086

🔥 CATERPILLAR ECF-3

APPLICATIONS

Rubia Works 4000 0W-40 is especially suitable for engines used in earthmoving activities (quarries, construction, mining, road transport, railway traction and power generating units) requesting API CK-4 or CJ-4 level.

Furthermore, thanks to its numerous OEMs specifications, it can be used also in "On-road" truck engines. This lubricant withstands very long working hours under severe conditions and high load, with dust and heat.

Rubia Works 4000 0W-40 is recommended for engines equipped with Exhaust gas after-treatment system meeting EURO Stage IV (or US EPA Tier 4F) Standard and, for On-Road, EURO 6, as well as previous standards.

Rubia Works 4000 0W-40 is particularly suitable for American, European and Japanese engines.

Thanks to its specific "low-SAPS" technology (low content of Sulphated Ash, Phosphorus and Sulphur), Rubia Works 4000 0W-40 is designed for the latest Diesel engines equipped with post-treatment systems, such as Diesel particulate filters (DPF) or DENOX catalyst.

PERFORMANCES & CUSTOMER BENEFITS

Rubia Works 4000 0W-40 is formulated using fully synthetic technology base oil together with robust additive formulation that provide wide range of operating temperatures (Excellent cold start properties).

- 💧 Rubia Works 4000 0W-40 exhibits excellent thermal stability ensuring efficient lubrication of hot engine pieces during severe and long working periods.
- 💧 Rubia Works 4000 0W-40 has been especially reinforced in oxidation resistance (much higher than simple API CK-4), providing the possibility for the end user to reach or to exceed the maximum manufacturer's drain interval recommendation, even under severe working conditions with bad Fuel quality or with Bio-Diesel fuel.
- 💧 Its advanced "low-SAPS" formulation helps prevent the clogging of the Diesel treatment system durability.

CHARACTERISTICS *

PROPERTIES	UNIT	TEST METHOD	RESULT
Grade	-	SAE J300	SAE 0W-40
Density	kg/m ³	ASTM D4052	851
Kinematic viscosity at 40°C	mm ² /s	ASTM D445	81
Kinematic viscosity at 100°C	mm ² /s	ASTM D445	14.0
Viscosity index	-	ASTM D2270	170
Dynamic viscosity at -35°C	mPa.s	ASTM D5293	6020
Pour point	°C	ASTM D97	-45
Flash point	°C	ASTM D92	210
Total Base Number	mgKOH/g	ASTM D2896	10.0
Sulphated ash	% m/m	ASTM D879	1.0

* The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at <https://ms-sds.totalenergies.com>. This product should not be used for any purposes other than the ones for which it is intended.



TotalEnergies Lubricants / Last update of this datasheet: February 24 / Rubia Works 4000 0W-40

Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at www.lubricants.totalenergies.com.