



RUBIA WORKS 4000 15W-40



“Low SAPS” lubricant especially developed for **earthmoving, mining and quarries machinery engines**.

SPECIFICATIONS AND APPROVALS

International specifications	ACEA E9/E7	API CK-4/CJ-4/CI-4+/CI-4/CH-4/SN	JASO DH-2
Manufacturers' approvals (or in progress)	Meets the requirements of ✓ CATERPILLAR ECF-3/ECF-2 Especially recommended in engines of machinery ✓ KOMATSU ✓ HITACHI ✓ ISUZU ✓ KOBELCO ✓ etc...		
✓ DEUTZ DQC III-10 LA ✓ MTU Category 2.1 ✓ MB-Approval 228.31 ✓ VOLVO VDS-4.5 ✓ MACK EO-S 4.5 ✓ RENAULT VI RLD-4 ✓ CUMMINS CES 20086 ✓ DETROIT DIESEL DFS 93K222 ✓ ISUZU List 2018			

APPLICATIONS

TOTAL RUBIA WORKS 4000 15W-40 is especially suitable for **engines** used in **earthmoving activities** (quarries, construction, mining, railroads...) requesting API CK-4 or CJ-4 level.

Furthermore, thanks to its numerous approvals, it can be used also in “On-road” truck engines.

This lubricant withstands **very long working periods** under severe conditions and high load, with dust and heat.

TOTAL RUBIA WORKS 4000 15W-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.

TOTAL RUBIA WORKS 4000 15W-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), TOTAL RUBIA WORKS 4000 15W-40 is designed for the latest Diesel engines equipped with **post-treatment systems**, such as Diesel particulate filters (DPF) or DENOX catalysator.

PERFORMANCES AND CUSTOMER BENEFITS

TOTAL RUBIA WORKS 4000 15W-40 exhibits **excellent thermal stability** ensuring efficient lubrication of hot engine pieces during severe and long working periods.

TOTAL RUBIA WORKS 4000 15W-40 has been especially reinforced in viscosity stability under shearing and 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.

The advanced “**low-SAPS**” formulation TOTAL RUBIA WORKS 4000 15W-40 helps prevent the clogging of the Diesel Particulate Filter (DPF) and extends the post-treatment system durability.

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL RUBIA WORKS 4000 15W-40		Method	Value
Kinematic Viscosity at 40°C	mm ² /s	ASTM D445	115
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	15.3
Viscosity Index	-	ASTM D2270	139
Pour Point	°C	ASTM D97	-33
T.B.N	mgKOH/g	ASTM D2896	11
Sulphated Ash	% m/m max	ASTM D874	1.0

* The features mentioned above are average values obtained with some variability in production and do not constitute a specification.

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TOTAL RUBIA WORKS 4000 15W-40
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This lubricant does not cause adverse health effects when used in the intended application.
A safety datasheet is accessible on request from your local dealer or on the website www.quickfds.com