



# RUBIA WORKS 4000 15W-40



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

## SPECIFICATIONS AND APPROVALS

<b>International specifications</b>	ACEA E9/E7	API CK-4/CJ-4/CI-4+/CI-4/CH-4/SN	JASO DH-2
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### Manufacturers' approvals

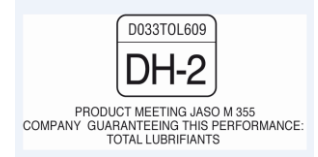
- ✓ DEUTZ DQC III-10 LA
- ✓ MTU Category 2.1
- ✓ MB-Approval 228.31
- ✓ VOLVO VDS-4.5
- ✓ MACK EO-S 4.5
- ✓ RENAULT VI RLD-3
- ✓ CUMMINS CES 20086
- ✓ DETROIT DIESEL DFS 93K222

### Meets the requirements of

- ✓ CATERPILLAR ECF-3/ECF-2

### Especially recommended in engines of machinery

- ✓ KOMATSU
- ✓ HITACHI
- ✓ ISUZU
- ✓ KOBELCO
- ✓ etc...



## 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 V (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 <sup>2</sup> /s	ASTM D445	115
Kinematic Viscosity at 100°C	mm <sup>2</sup> /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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[www.lubricants.total.com](http://www.lubricants.total.com)



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](http://www.quickfds.com)