



# RUBIA WORKS 2000 FE 10W-30



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

## SPECIFICATIONS AND APPROVALS

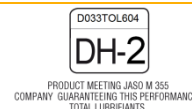
**International specifications**      **ACEA E9/E7/E5**      **API CJ-4/CI-4 plus/CI-4/SM**      **JASO DH-2 (Approved D033TOL604)**

### Manufacturers' approvals

- ✓ CUMMINS CES 20081
- ✓ DEUTZ DQC III-10 LA
- ✓ MTU Category 2.1
- ✓ VOLVO VDS-4
- ✓ DETROIT DIESEL DDC Power Guard 93K218
- ✓ MAN M 3575
- ✓ MB-Approval 228.31
- ✓ RENAULT RLD-3

### Meets the requirements of

- ✓ Caterpillar ECF-3 / ECF-2 / ECF-1a



### Recommended for the following engines

CASE NEW-HOLLAND, DEERE, HITACHI, ISUZU, JCB, KOMATSU, LIEBHERR, MITSUBISHI, PERKINS...

## APPLICATIONS

TOTAL RUBIA WORKS 2000 FE 10W-30 is especially suitable for **engines** used in **earthmoving activities** (quarrying, constructions, mining...)

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

TOTAL RUBIA WORKS 2000 FE 10W-30 is recommended for recent technology engines that meet **European standard Stage IV** and **American standard EPA Tier 4 final**.

TOTAL RUBIA WORKS 2000 FE 10W-30 is particularly suitable for American, European and Japanese engines.

Thanks to its “**low-SAPS**” (low Sulphated Ash, Phosphorus and Sulphur) technology, TOTAL RUBIA WORKS 2000 FE 10W-30 is designed for the latest Diesel engines equipped with **post-treatment systems**, such as Diesel particulate filters (DPF).

## PERFORMANCES AND CUSTOMER BENEFITS

TOTAL RUBIA WORKS 2000 FE 10W-30 ensures **efficient lubrication of hot engine pieces**, especially during severe and repeated periods.

Its advanced “**low-SAPS**” formulation helps prevent the clogging of the Diesel particulate filter (DPF) and extends the post-treatment system durability.

With its **Fuel Economy** technology, TOTAL RUBIA WORKS 2000 FE 10W-30 helps save fuel.

It is adapted to **all engines brands and types** of old or recent generation.

## PHYSICAL AND CHEMICAL CHARACTERISTICS\*

TOTAL RUBIA WORKS 2000 FE 10W-30	Method	Value	
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	77.5
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	11.8
Viscosity Index	-	ASTM D2270	146
Pour Point	°C	ASTM D97	-42
T.B.N	mgKOH/g	ASTM D2896	8.6
Sulphated Ash	% m/m	ASTM D874	0.9

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

### TOTAL LUBRIFIANTS

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### TOTAL RUBIA WORKS 2000 FE 10W-30

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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)