



RUBIA WORKS 3000 FE 5W-30



Fully Synthetic and “Low SAPS” lubricant especially developed for earthmoving, mining and quarries machinery engines, providing Fuel Economy.

SPECIFICATIONS AND APPROVALS

International specifications	ACEA E6/E9/E4-99/E7	API CJ-4/CI-4+/CI-4/CH-4	JASO DH-2
Manufacturers' approvals <ul style="list-style-type: none"> ✓ DEUTZ DQC IV-10 LA ✓ MTU Category 3.1 ✓ MAN M 3477 M 3677 ✓ MB-Approval 228.51 ✓ VOLVO VDS-4 ✓ MACK EO-O Premium Plus ✓ RENAULT VI RLD-3 ✓ SCANIA LDF 4 	Meets the requirements of <ul style="list-style-type: none"> ✓ LIEBHERR LH 01 ENG LA ✓ CATERPILLAR ECF-3 / ECF-2 / ECF-1a ✓ CUMMINS CES 20081 ✓ IVECO ✓ DAF 	 <small>PRODUCT MEETING JASO M 355 COMPANY GUARANTEEING THIS PERFORMANCE: TOTAL LUBRIFIANTS</small>	
	Recommended for the engines : <ul style="list-style-type: none"> ✓ KOMATSU ✓ ISUZU ✓ PERKINS... 		

APPLICATIONS

TOTAL RUBIA WORKS 3000 FE 5W-30 is especially suitable, throughout the year, for **engines** used in **earthmoving activities** (quarrying, construction, mining...), meeting the international Emission Standard EURO Stage IV or US EPA TIER 4F.

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

The “**low-SAPS**” technology of TOTAL RUBIA WORKS 3000 FE 5W-30 is especially designed for the latest Diesel engines equipped with **post-treatment systems**, such as Diesel particulate filters (DPF).

Furthermore, TOTAL RUBIA WORKS 3000 FE 5W-30 is perfectly suitable for Road truck engines meeting EURO 6 norm. It is also adapted for certain Gas engines.

PERFORMANCES AND CUSTOMER BENEFITS

TOTAL RUBIA WORKS 3000 FE 5W-30, thanks to its synthetic base oils together with a very efficient chemistry, exhibits **excellent thermal stability** ensuring efficient lubrication of hot engine pieces during long and severe working periods and also makes it easier cold starts.

The advanced “**low-SAPS**” formulation TOTAL RUBIA WORKS 3000 FE 5W-30 helps to prevent the clogging of the Diesel particulate filter (DPF) and extends the post-treatment system durability. Furthermore, its formula has been developed to provide substantial Fuel Economy for the end user.

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL RUBIA WORKS 3000 FE 5W-30	Method	Value
Kinematic Viscosity at 40°C	mm ² /s	ASTM D445 72.5
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445 12.2
Viscosity Index	-	ASTM D2270 166
Pour Point	°C	ASTM D97 -42
T.B.N	mgKOH/g	ASTM D2896 13
Sulphated Ash	% m/m	ASTM D874 <1

* 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 3000 FE 5W-30
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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