



RUBIA WORKS 2000 10W-40



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

SPECIFICATIONS AND APPROVALS

International specifications ACEA E9/E7/E5 API CJ-4/CI-4 plus/CI-4/SM JASO DH-2 (Approved D033TOL606)

Manufacturers' approvals

- ✓ CUMMINS CES 20081
- ✓ DEUTZ DQC III-10 LA
- ✓ MTU Category 2.1
- ✓ VOLVO VDS-4
- ✓ MACK EO-O Premium Plus
- ✓ 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

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

Approved according to ALLISON TES 439 (N° 439-33882016)

APPLICATIONS

TOTAL RUBIA WORKS 2000 10W-40 is especially suitable for **engines** used in **earthmoving activities** (quarrying, construction, mining). Furthermore, it is perfectly adapted to on-road truck engines, thanks to its numerous approvals. This lubricant withstands **very long working periods** under severe conditions and high load, with dust and heat.

TOTAL RUBIA WORKS 2000 10W-40 is recommended for recent engines meeting up to **EURO Stage IV** and **US EPA Tier 4 final** Standards and, for On-Road, **up to EURO 6** (with a reduced drain interval, excepted for RENAULT/VOLVO) and **US EPA-07**.

TOTAL RUBIA WORKS 2000 10W-40 is particularly suitable for American, European and Japanese engines.

Furthermore, it can be used in ALLISON Off-Road transmissions (5000 to 9000 series), for more rationalization.

Thanks to its “**low-SAPS**” (low Sulfated Ash, Phosphorus and Sulfur) technology, TOTAL RUBIA WORKS 2000 is designed for the latest Diesel engines equipped with **post-treatment systems**, such as Diesel Particulate Filters, by preventing any clogging and extending their operation life.

PERFORMANCES AND CUSTOMER BENEFITS

Thanks to its reinforced chemistry and its semi-synthetic base oils, TOTAL RUBIA WORKS 2000 10W-40 exhibits **excellent thermal stability** ensuring perfect lubrication of hot engine pieces during long and severe working periods.

Its **reinforced kinematic viscosity (100°C)** and **HTHS** (High Temperature, High Shear), similar to a “15W-40” one, help to resist to high pressure between engine pieces and to accept an eventual fuel dilution.

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

PHYSICAL AND CHEMICAL CHARACTERISTICS*

TOTAL RUBIA WORKS 2000 10W-40		Method	Value
Kinematic Viscosity at 40°C	mm ² /s	ASTM D445	109
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	15.5
Viscosity Index	-	ASTM D2270	150
Viscosity HTHS	mPa.s	ASTM D4683	4.10
Pour Point	°C	ASTM D97	-36
T.B.N	mgKOH/g	ASTM D2896	10.5
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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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