

RUBIA TIR 9900 10W-40

DIESEL & GAS ENGINE OIL

KEY DATA



SPECIFICATIONS AND APPROVALS

International Specifications:

ACEA E4, E6, E7, E9
API CJ-4/CI-4/CH-4

Manufacturers' Approvals:

- ✓ Detroit Diesel DDC Power Guard 93K218
- ✓ Mack EO-O Premium Plus
- ✓ MB-Approval 228.51
- ✓ Renault Trucks RLD-3
- ✓ Volvo VDS-4
- ✓ Scania Low Ash
- ✓ Cummins CES 20081

Meets the Requirements of:

- ✓ DAF
- ✓ IVECO TLS E9
- ✓ MAN M 3477/M 3575/M 3271-1

TECHNOLOGY

Pro-Efficient technology

Protection approved by professionals, for maximum efficiency.

The Pro-Efficient Technology protects and improves the efficiency of professional engines by ensuring reduced mechanical wear and extended oil drain intervals. Meaning longer engine life, less breakdowns and reduced maintenance costs.



APPLICATIONS

TOTAL RUBIA TIR 9900 10W-40 is particularly suitable for use in all **on-highway diesel heavy-duty** applications. It is also compatible with most **gas** engines.

Its "**low-SAPS**" (low sulphated ash, phosphorus and sulphur) technology protects the latest generation of diesel engines equipped with any kind of **post-treatment systems**, such as diesel particulate filters (DPFs). TOTAL RUBIA TIR 9900 10W-40 is a lubricant adapted to most new **Euro 6** engines, such as **DAF, Mercedes-Benz, Volvo, Renault Trucks**, and previous engine models as well. It is also suitable for new generation Euro 6 IVECO engines.

TOTAL RUBIA TIR 9900 10W-40 enables coverage of a fleet of mixed brands of engines, with very long oil drain intervals criterion and equipped with or without post-treatment systems, with a minimal number of products.

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PERFORMANCES AND CUSTOMER BENEFITS

High quality synthetic base stocks combined with high-performance additives make TOTAL RUBIA TIR 9900 10W-40 an **exceptional technical performances lubricant**.

Excellent detergent, antioxidant and anti-corrosion properties help to reach **extended oil drain intervals** and reduce maintenance costs.

The advanced "**low-SAPS**" formulation of TOTAL RUBIA TIR 9900 10W-40 improves the post-treatment system durability, preventing the clogging of the diesel particulate filter (DPF).

PHYSICAL AND CHEMICAL CHARACTERISTICS *

TEST	UNIT	TEST METHOD	VALUE
Density at 15 °C	kg/m ³	ASTM D1298	865
Kinematic Viscosity at 40 °C	mm ² /s	ASTM D445	92.4
Kinematic Viscosity at 100 °C	mm ² /s	ASTM D445	14
Viscosity Index	-	ASTM D2270	155
Flash Point	°C	ASTM D92	236
Pour Point	°C	ASTM D97	-30
T.B.N	mgKOH/g	ASTM D2896	13
Sulphated Ash	% m/m	ASTM D874	0.95

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

RECOMMENDATIONS FOR USE

Before using the product, it is important to check the service manual of the vehicle: the drain is carried out according to the manufacturer's requirements. The product should not be stored at a temperature above 60 °C. Exposure to strong sunlight, extreme cold or high temperature variations must be avoided. All packages should be protected from bad weather conditions. The drums should be stored horizontally to avoid a possible contamination by water and the damage of the product label.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on available information, this product does not cause adverse health effects when used in the intended application and the recommendations provided in the Safety Data Sheet (MSDS) are followed. It is accessible on request from your local dealer or on the website <http://sdstotalms.total.com>. This product should not be used for applications other than those for which it is intended. If disposing of used product, take care to protect the environment and comply with local regulations.