

Rubia Optima 3100 10W-40

Diesel & gas engine oil

KEY DATA



Synthetic technology Low-SAPS lubricant, suitable for use in heavy-duty on road diesel and gas engines.

INTERNATIONAL STANDARDS

- ACEA E6, E7, E8, E9, E11
- API CK-4/CJ-4/CI-4/CH-4/SN

MANUFACTURER APPROVALS

- Mack EOS-4.5
- DTFR 15C110 (228.51)
- DTFR 15C120 (228.52)
- Renault Trucks RLD-3
- Volvo VDS-4.5
- Cummins CES 20086
- DDC DFS 93K222

MEETS THE REQUIREMENTS OF

- MAN M 3477/M 3271-1
- DAF PSQL 2.1E LD

SUITABLE FOR

- FPT IVECO CATEGORY TLS E9
- FPT IVECO CATEGORY TLS CK-4

TECHNOLOGY

Inno-Boost technology

Ready for the next chapter of engine technology.

With the Inno-Boost Technology, formulations incorporate the right combination of strong anti-oxidant molecules. These active molecules inhibit radical formation and keep the hydrocarbon chains intact. As a result, the engine oil viscosity remains stable and keeps its properties for a longer time.



APPLICATIONS

Rubia Optima 3100 10W-40 is a **synthetic technology** lubricant particularly suitable for use in **on-road heavy-duty diesel** applications. With its "Low-SAPS" (low sulphated ash, phosphorus and sulphur) technology, Rubia Optima 3100 10W-40 protects diesel engines equipped with post-treatment systems such as diesel particulate filters (DPFs).

This high-performance lubricant is approved by **Volvo** for its latest generation of **Euro 6** engines with **long oil drain intervals** defined by the manufacturer. It is also recommended for **several manufacturers**, such as **IVECO** for **Euro 5** (and previous) engine models.

Rubia Optima 3100 10W-40 enables the coverage of a fleet of mixed brands of engines (American and European manufacturers) with a minimal number of products.

PERFORMANCES & CUSTOMER BENEFITS

- 🔥 Synthetic base stocks and high-performance additives offer a high-performance lubricant. Its semi-synthetic composition provides exceptional thermal stability.
- 🔥 Outstanding detergent, antioxidant and anti-corrosion properties, help to reach extended oil drain intervals, required by DAF, MAN and Mercedes-Benz and reduce maintenance costs.
- 🔥 The association of detergent, dispersant and anti-wear keeps the engine's most sensitive parts clean. Excellent piston cleanliness performance affords effective protection against cylinder liner polishing.
- 🔥 The advanced "Low-SAPS" formulation of Rubia Optima 3100 10W-40 helps prevent the clogging of the diesel particulate filter (DPF) and extends the post-treatment system durability.

CHARACTERISTICS*

| TEST | UNIT | TEST METHOD | RESULT |
|------------------------------|--------------------|-------------|--------|
| Density at 15 °C | kg/m ³ | ASTM D1298 | 866 |
| Kinematic viscosity at 40°C | mm ² /s | ASTM D445 | 103.1 |
| Kinematic viscosity at 100°C | mm ² /s | ASTM D445 | 14.75 |
| Viscosity index | - | ASTM D2270 | 149 |
| Pour point | °C | ASTM D97 | -33 |
| Flash Point | °C | ASTM D92 | 238 |
| T.B.N | mg KOH/g | ASTM D2896 | 9.7 |
| Sulphated Ash | % w/w max | ASTM D874 | 0.9 |

*The characteristics given above are obtained with a standard tolerance threshold during production and may not be considered specifications.

RECOMMENDATIONS FOR USE

Before using the product, the vehicle's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations. If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet (SDS).

This can be obtained on request from your local reseller and is available for consultation at <https://ms-sds.totalenergies.com>.

This product should not be used for any purposes other than the ones for which it is intended.



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Some variations can be expected under normal production conditions, but these should not affect the product's expected performance irrespective of the site. The information contained in this document is subject to change without notice. Our products can be viewed on our website at www.lubricants.totalenergies.com.

