

Rubia Optima 3100 FE 10W-30

Diesel engine oil

KEY DATA



Synthetic technology lubricant for diesel engines, suitable for on-road heavy-duty applications, with Fuel Economy technology.

INTERNATIONAL STANDARDS

- ❖ ACEA E8, E11
- ❖ API CK-4

MANUFACTURER APPROVALS

- ❖ DTFR 15C110
- ❖ DTFR 15C120
- ❖ Mack EOS 4.5
- ❖ Volvo VDS-4.5
- ❖ Renault Trucks RLD-3
- ❖ Cummins CES 20086

MEETS THE REQUIREMENTS OF

- ❖ DDC DFS 93K222
- ❖ MAN M 3477 / M 3271-1
- ❖ DAF PSQL 2.1E LD

SUITABLE FOR

- ❖ IVECO

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 FE 10W-30 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 FE 10W-30 protects diesel engines equipped with post-treatment systems such as diesel particulate filters (DPFs).

This high-performance lubricant is approved by Mercedes-Benz 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 FE 10W-30 enables the coverage of a fleet of mixed brands of engines (American and European manufacturers) with a minimal number of products.

PERFORMANCES & CUSTOMER BENEFITS

- Its Fuel Economy technology helps save 1% fuel on average, compared to a 40 grade reference lubricant. This value can reach 3% if used in combination with Fuel Economy transmission lubricants.
- Outstanding detergent, antioxidant and anti-corrosion properties help to reach extended oil drain intervals, defined by MAN and Mercedes-Benz to reduce maintenance costs.
- Rubia Optima 3100 FE 10W-30 exhibits a high T.B.N level (9.5 mgKOH/g) to neutralize acid compounds and prevent corrosion.
- Excellent detergent, dispersant and anti-wear additives keep the engine's most sensitive parts clean.

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	84.4
Kinematic viscosity at 100°C	mm ² /s	ASTM D445	12.3
Viscosity index	-	ASTM D2270	141
Pour point	°C	ASTM D97	-33
Flash Point	°C	ASTM D92	232
T.B.N	mg KOH/g	ASTM D2896	9.5
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.