

LubAnac off-road



What is the **ANALYSIS** Compared system of TotalEnergies?

LubAnac is a preventive maintenance tool and a fleet management system based on used oils analyses ensuring a **significant reduction of the TCO** of the customer by:

- Preventing possible breakdowns,
- Following regularly the condition of the lubricant and the wear of the mechanical components,
- Reinforcing the lifetime and the reliability of the machines,
- Optimizing the drain intervals in a safe way.

Our professional customers are active in the automotive (on-road or off-road), industrial and marine (Inland and international) sectors. LubAnac diagnosis service is sold worldwide by TotalEnergies affiliates to end-users.



LubAnac is a specialist in **OFF-ROAD**

How does LubAnac generate the diagnosis and propose corrective actions?

The diagnosis and the corrective actions are generated by LubAnac off-road system based on:

- **40 years of experience** and enrichment of the database LubAnac, more than **7 million analysis on 1 million monitored components**,
- **Customer feedbacks** on successful corrective actions,
- **A comparison between the measured values and the wear references** thanks to algorithms excluding variable parameters such as oil top-ups or drain intervals.



A major player

With our production, supply chain and commercial presence in more than **160 countries**, we deliver a full range of lubricants.

Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

References & OEMs

TotalEnergies Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.



Innovation & Research

TotalEnergies Lubrificants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

Quality and environment

TotalEnergies Lubrificants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.

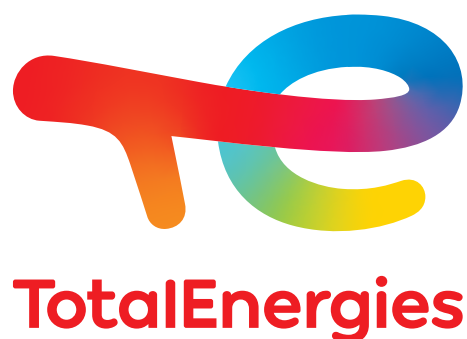


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Let your oil do the talking

Preventive maintenance tool and fleet management system:

- ✓ Extend the lifetime of your machine park
- ✓ Reduce the Total Cost of Ownership (TCO)
- ✓ Optimize reliability and performance



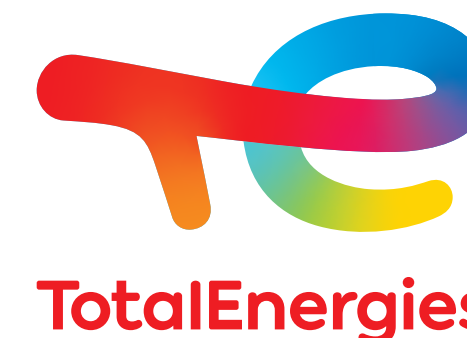
lubricants.totalenergies.com



TotalEnergies Industry Solutions

✉ ms.industry.lub@totalenergies.com

Safety Data Sheets are available at ms-sds.totalenergies.com



LubAnac off-road



Reduces downtime of the entire machinery fleet.
Prevention of possible mechanical breakdowns.



Increases the lifetime of your machinery.
Decrease of the risk of excessive wear of the mechanical components.



Optimizes the maintenance costs.
Control of your maintenance budget.

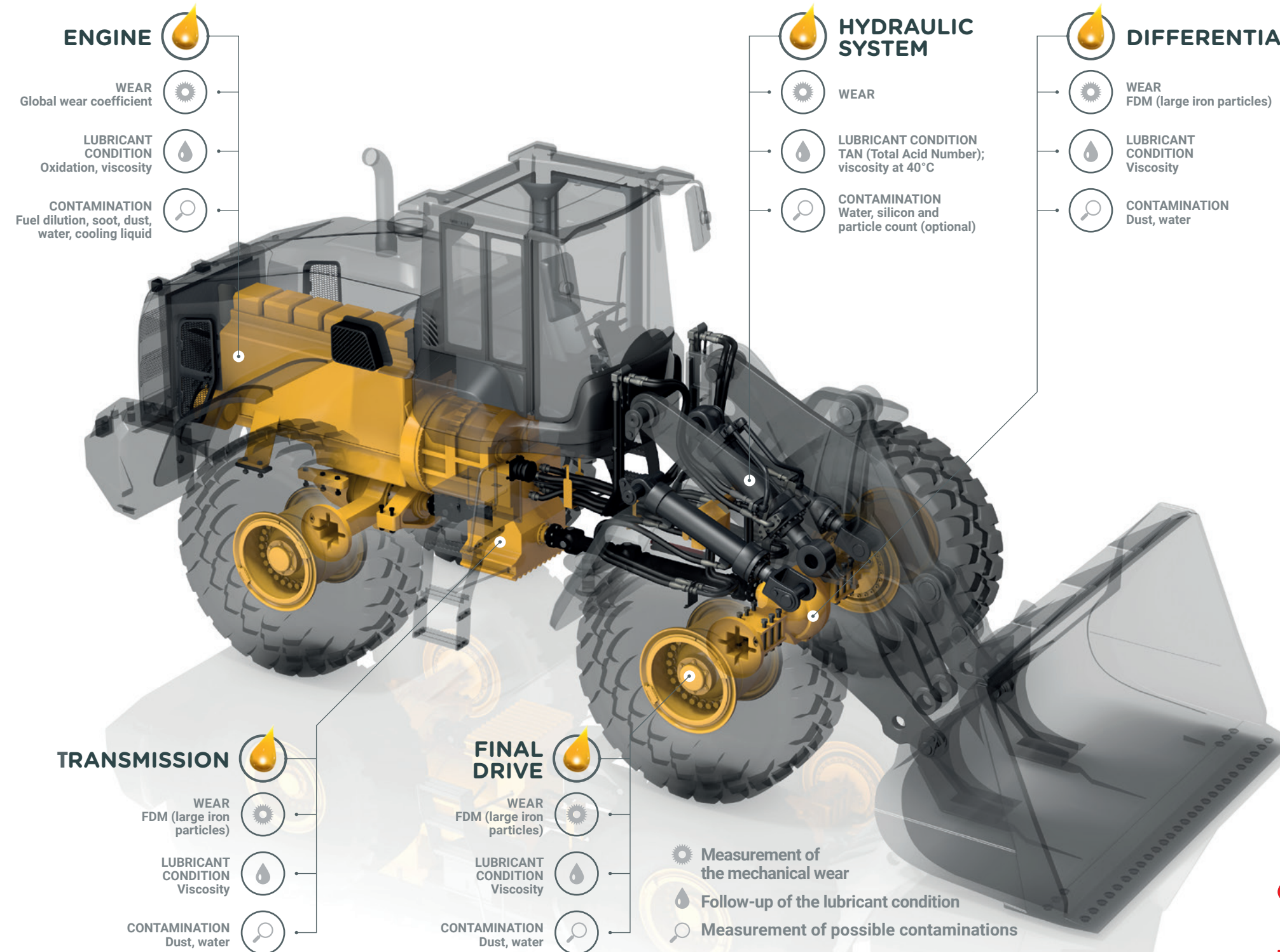


Reduces the Total Cost of Ownership (TCO).
Optimization of the amortization of your machinery park.



A preventive maintenance tool for all the components of your machine park

One analysis to cover all of your needs ensuring an optimal technical performance.



Technical aspect

FDM (large iron particles)

Some mechanical components work in severe operating conditions and under high loads (original: under high load conditions and shocks) which can generate large wear particles of Iron (>5µm). The FDM measurement makes it possible to detect their presence.

TAN (Total Acid Number)

The hydraulic system is a key component for Off-Road machines.

LubAnac off-road follows the evolution of the acidity of hydraulic oils in order to control its degradation over time. This follow-up allows the safe optimization of the drain intervals.

anac-diagnosis.com

A simple and effective tool to manage your machinery fleet

A personalized and secure access to:

- **consult** new reports and previous sample results
- **visualize** the analysis results in graphical form
- **go in depth** with personalized requests
- **download** the results in excel or pdf format
- **view** under smartphones and tablets
- **manage** statistical modules
- **pre-register** data from new samples
- **better understand** through diagnostic assistance (CAPS) and Call back Button

Our customers talk about us

Sébastien C.
Hardware Technical Inspector
NGE Group - France

Since LubAnac started monitoring our equipment, we have sharply cut machinery downtime, resulting in better availability. Efficient management of our lead times improves the profitability of our projects.

Guy Fredericks
Global Fleet Director
SARENS - Belgium

We estimate that we've avoided up to 20 engines breakdowns a year since we introduced a new maintenance strategy based on LubAnac.

The color codes of the measured characteristics



Available also via LubAnac QR App and its QR code system.

