

LubAnac agri



What is the **Lub 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 maintenance costs by:

- Preventing possible breakdowns,
- Following regularly the condition of the lubricant and the mechanical components' wear,
- 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 **AGRICULTURE**

How does LubAnac generate the diagnosis and propose corrective actions?

The diagnosis and the corrective actions are generated by LubAnac agri 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.

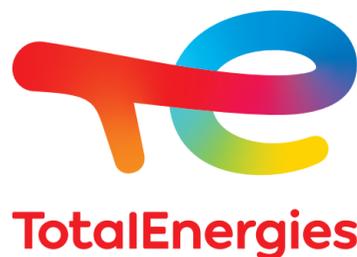


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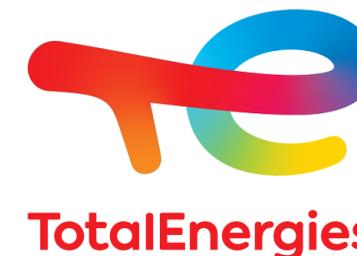
Let your oil do the talking

Preventive maintenance tool by analytical monitoring:

- ✓ Extend the lifetime of your tractor and machinery
- ✓ Increase value of your equipment for resale
- ✓ Optimize reliability and performance



lubricants.totalenergies.com/business/oil-diagnosis-lubnac





Reduces downtime of your machinery.
Prevention of possible mechanical breakdowns.



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



Optimizes maintenance costs of your machinery.
Control of your maintenance budget.

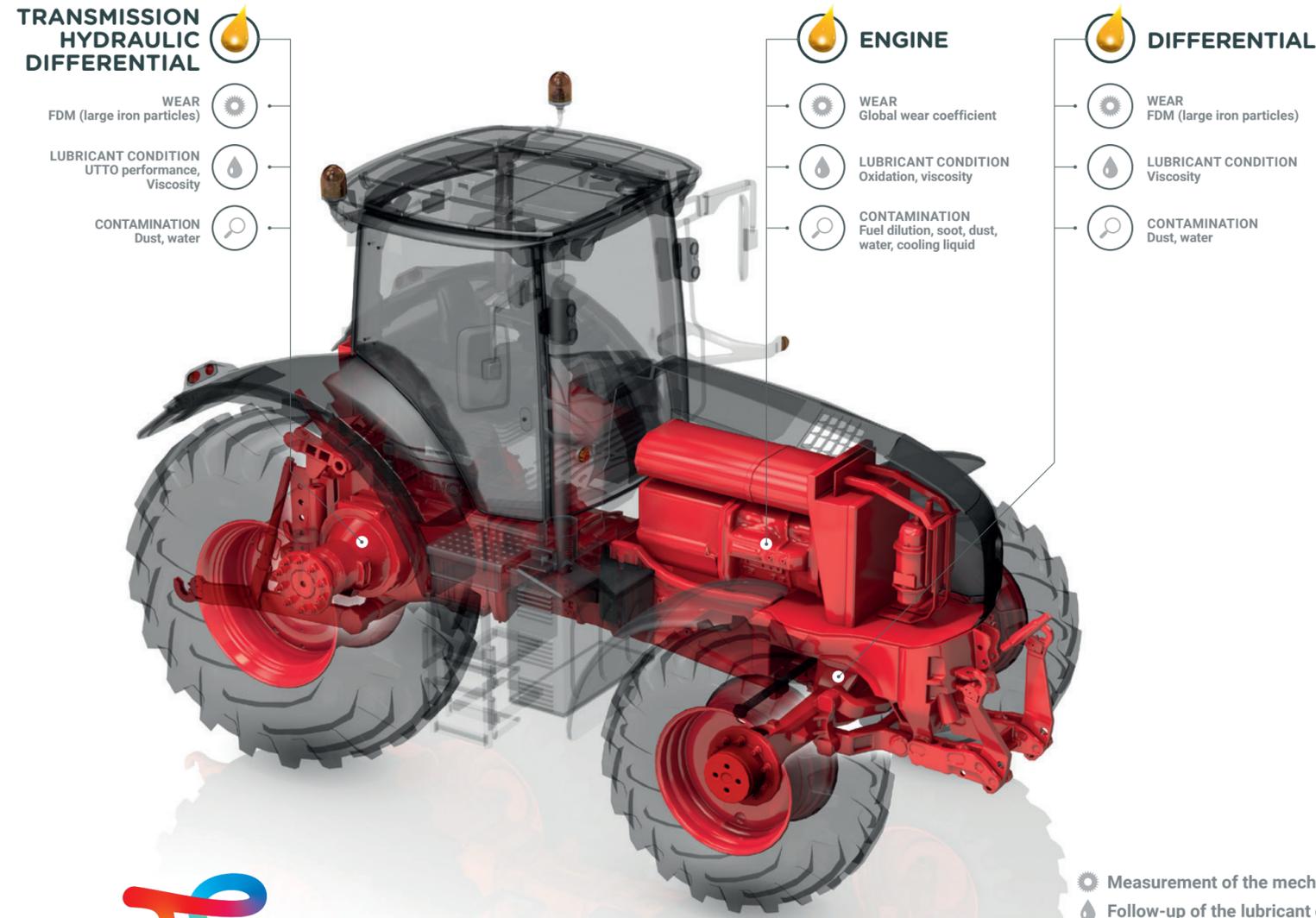


Increases value of your machinery for resale.
Optimization of the value for resale thanks to a complete and regular maintenance monitoring.



A preventive maintenance tool for all the components of your machinery

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



- Measurement of the mechanical wear
- Follow-up of the lubricant condition
- Measurement of possible contaminations

Technical aspect

Universal Tractor Transmission Oil (UTTO)

The hydraulic oil of the auxiliary equipment can contaminate the gear oil and cause noise in the transmission leading to some damages in the brake systems.

LubAnac agri detects the presence of hydraulic oil in the gear oil in order to control the dilution of the conventional hydraulic oil in it.

FDM (large iron particles)

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

LubAnac agri proposes this new measurement in order to guarantee a better follow-up of these mechanical components.

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A simple and effective tool to manage your machinery

A personalized and secure access to:

- **consult** new reports and previous sample results
- **visualize** the evolution of diagnoses and report colors
- **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

Thierry BOLOT,
Technical director, FAUPIN Group - France

LubAnac oil analyses have improved preventive maintenance of our high-wheel tractors with regular checks of engine condition. We need machinery in good working order all year round. Plus, the analyses give us food for discussions with our manufacturer on machinery operation.

Alejandro Castillo,
Agricultural Division Manager / Engineer
Ser San Antonio - Nicaragua

We use the LubAnac service every year to check motor, axles oil quality and to spot and prevent potential premature wear.

The color codes of the measured characteristics



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

