



LubAnac connected oil

Real time in use oil
condition monitoring



TotalEnergies

Summary

- The service
- Your needs, our solution
- Five good reasons for choosing TotalEnergies Lubrificants



LubAnac connected oil

Service which makes possible to monitor 24/7 the condition and aging of in-service oil.

LubAnac connected oil sensor measures 2880 times a day critical characteristics.

The sensor data are continuously processed using an in house algorithm developed by our data scientists and displayed in the connected oil application to **help to manage your operations.**

The benefits offered by **TotalEnergies Lubrificants**

Based on more than 45 years' experience on analysis of oil in service, LubAnac connected oil by TotalEnergies Lubrificants provides you the best in class solution for your day to day operations.

Much more than just an IIOT*, LubAnac connected oil also includes a complete support package :

1. Training
2. Personalised configurations
3. User support
4. Technical assistance

*IIOT = Industrial Internet of Things

#Smart solutions

by TotalEnergies Lubrificants

Your needs

- **Be connected** to your lubricant equipment **24/7**, and stand on the **latest oil condition** in one touch.
- **Optimize your lubricant drain interval** and **get maximum performance** out of it.
- **Develop your Industry 4.0 strategy** without heavy investment.
- **Be alerted** in case of detection of **anomalies**.

Our solution

- **LubAnac connected oil**, is our best in class solution for real time monitoring of oil condition, oil aging and viscosity. Our **IIOT solution monitors continuously** the various characteristics of the oil. Our dedicated interface provides you in real time and wherever you are, key information about your equipment oil conditions, displayed in graphs, values and **alarms in case of anomalies detection**.
- LubAnac Connected Oil helps you to timely manage your maintenance operation and **get the most out of your equipment**.



A field proven solution correlation between physico-chemical measurements and laboratory results.

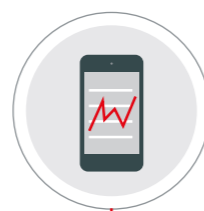
The monitoring of the sensor signal is the exact reflection of what is happening in the oil.



Maintenance optimization

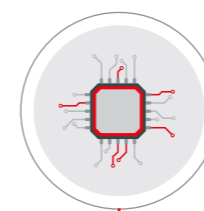
by 24/7 online monitoring

- Oil aging percentage: real time indication of the remaining life of oil.
- Real time indication of oil viscosity (KV100).



Easy display of oil condition

- Graphs and charts.
- PC / smartphone / tablet.



Data accuracy

by using specific algorithm

- Developed based on more than 45 years of oil analysis expertise.
- High accuracy consistent with lab analyzed samples.



Real time protection

warning / alerting

By e-mail or text message in case of:

- Threshold of 85% of oil aging is reached, so maintenance can be scheduled.
- Detection of abnormal presence of water, cooling liquid, soot or fuel. In this case, a physical oil sample can be taken to determine the exact level of contamination which allows the determination of the repairs to be scheduled.



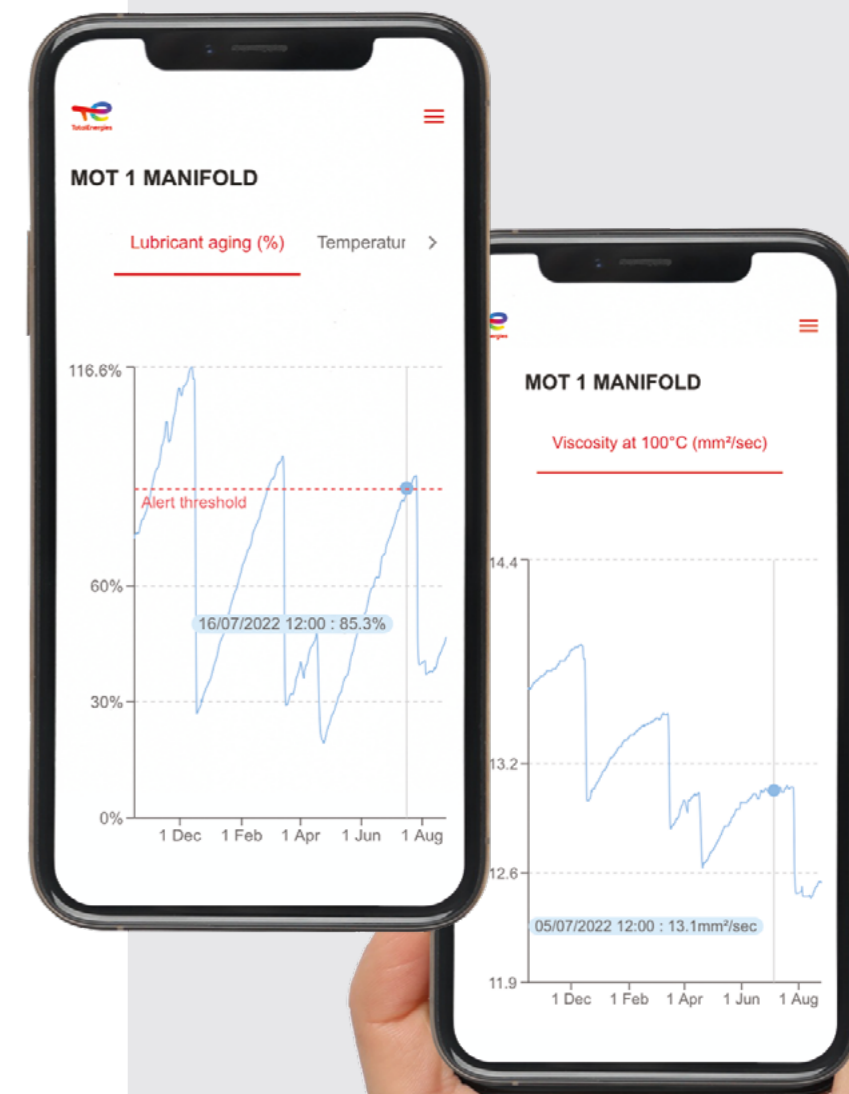
Savings

- Reduce lubrication cost / optimize oil drain interval.
- Reduce maintenance cost, by implementing predictive maintenance planning, avoid sudden breakdowns related to lubrication issues.
- Optimize operation stability, avoid machine downtime.
- Reduce number of systematic / laboratory oil analysis (sampling and labor costs).



Additional support recommendation

- For any question on the application, a personal support is on hand.





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.

5
good reasons
for choosing
TotalEnergies
Lubrificants

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.



TotalEnergies



lubricants.totalenergies.com



ms.industry@totalenergies.com

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



TotalEnergies Industry Solutions