LubAnac expert

The in-depth diagnostic system for driveline components

LubAnac Expert is an in-depth, personalised diagnosis system for engines, gearboxes and other driveline components. It combines the data of the LubAnac database with the experience and knowledge of the LubAnac experts.

LubAnac Expert is recommended for:

- Detailed follow-up of component wear and lubricant behaviour.
- Spot analysis and diagnosis in special cases (breakdowns, claims, expertise, ...)
- Analysis of new lubricants.

⊘ Measured characteristics

Mechanical wear:

Wear elements (ppmc) : Iron, Lead, Copper, Tin, Chromium, Aluminium, Nickel Large ferromagnetic particles (>5 µm) are measured by FDM (Ferrous Debris Monitor).

Contamination of the lubricant:

Silicon (ppm), Soot* (%), Water (%), Cooling Liquid*(presence), Fuel* (%)

Characteristics of the lubricant:

Viscosity (mm²/s) at 40°C and 100°C, Viscosity Index Total Base Number - TBN* (mg KOH/g) or Total Acid Number - TAN** (mg KOH/g) Sulphated Ash and Oxidation/Nitration*

Optional:

Additive elements Ca, Zn, P, Mg, Mo, Ba, V, Na, B, K, Ag

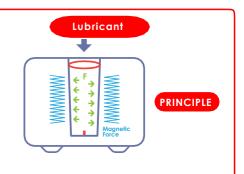
* engines - ** other components

Did you know?

The presence of large ferromagnetic particles (Size > 5µm) often indicates a major part dysfunction.

FDM (Ferrous Debris Monitor) allows to measure the content of these large particles in the oil.

Associated with the small particles of Fe (Iron) measured with ICP ($<5\mu$ m), the large particles allow a better diagnosis on the state of the parts subjected to high shocks and loads.

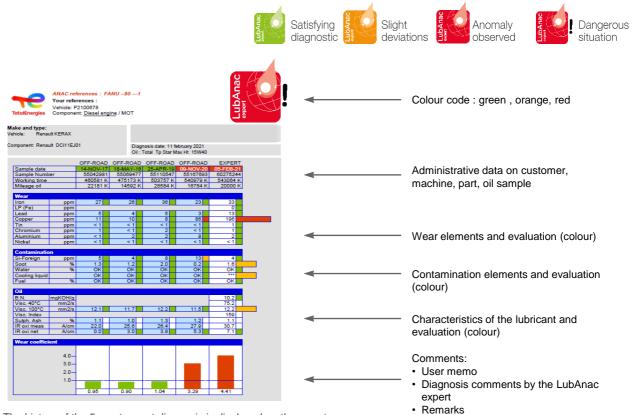




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Presentation of results

The diagnosis report is available within 72 hours after reception of the oil sample in the lab and can be dispatched e-mail or be consulted on a secured Internet portal.



The history of the 5 most recent diagnosis is displayed on the report. Reports are available in 19 languages.

A website that helps to manage the park monitoring: **Iubanac.totalenergies.com** A personal and secured access for:

- the consultation of new reports and history
- the possibility of creating QR codes for machine identification
- the management of diagnosis data
- the download of the data in Excel or pdf files
- compatibility with smartphone and tablet.

Diagnosis and comments



The diagnosis and comments are generated by a LubAnac experts who are specialized in lubricant and driveline technology. They uses the LubAnac database with reference data of all current part types. The experts consider all feedback on successful corrective actions by the users as well as the specific knowledge on the usage conditions and possible remarks by the user. The experts give personalised comments on the state of the part and the lubricant and are available for discussion and questions with users. They fully applie all advantages of the LubAnac system :

- More than 8,5 million performed analyses, over 400.000 parts in follow up.
- Customer feedback of successful interventions after LubAnac diagnosis.
- · Follow up of new technologies in lubricants as well as in drivelines.
- More than 45 years of experience

