



### What is the ANALYSIS Compared system of TOTAL?

TOTAL ANAC 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. TOTAL ANAC diagnosis service is sold worldwide by TOTAL affiliates to end-users.



### TOTAL ANAC is a specialist in OFF-ROAD

How does ANAC generate the diagnosis and propose corrective actions?

The diagnosis and the corrective actions are generated by TOTAL ANAC OFF-ROAD system based on:

- **40 years of experience** and enrichment of the database TOTAL ANAC, 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 150 countries, we deliver a full range of lubricants.

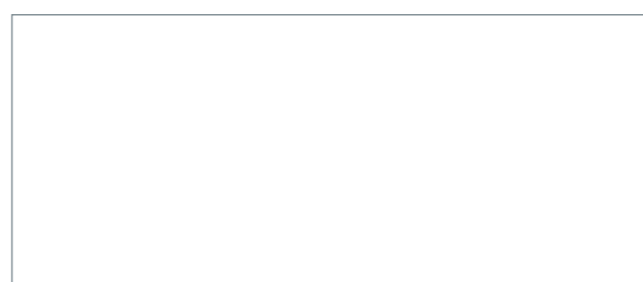
**Support and partnership**  
Thanks to local technical presence, we provide a high level of service to optimize your Total cost of Ownership.

**References & OEMs**  
Total Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.



**Innovation & Research**  
Total invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

**Quality and environment**  
Total Lubrificants ISO 9001 certification is the guarantee of a long term commitment to quality. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



Safety Data Sheets are available at [quickfds.com](http://quickfds.com)  
**total.com**



## TOTAL ANAC OFF-ROAD 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



06/2019 - TOTAL LUBRIFIANTS SA 552 006 454 RCS Nanterre - Photos: 123RF, Shutterstock. Design: GOLDEN DESIGN





## 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.



### 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.



## 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.

**TOTAL ANAC 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.

## Our customers talk about us

**Sébastien C.**  
Hardware Technical Inspector  
NGE Group - France

Since **TOTAL ANAC** 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 **TOTAL ANAC**.

[anac-diagnosis.com](http://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

The color codes of the measured characteristics



Available also via **TOTAL ANAC QR App** and its QR code system.

