# TOTAL ANAC VISIO



# The in-depth diagnostics system for hydraulic systems and other non combustion components.

**TOTAL ANAC Visio** is an in-depth diagnostics system for non combustion driveline components (e.g. automatic and manual gearboxes, differentials, reduction cases) and hydraulic systems in automotive applications (e.g. construction equipment). It adds a microscopic examination of the particles in the oil to the analysis of the physico-chemical condition of the lubricant and the wear condition of the component.

#### TOTAL ANAC VISIO is recommended for:

- In-depth follow-up of the mechanical wear, condition and contamination of the lubricant for hydraulic systems and non-combustion driveline components
- Spot analysis and diagnosis in special cases (breakdowns, claims, expertise, ...)
- Optimisation of the drain intervals

## **MEASURED CHARACTERISTICS**

Mechanical wear: Wear elements : Iron, Lead, Copper, Tin, Chromium, Aluminium, Nickel (ppm)

#### **Contamination of the lubricant:**

Silicon (ppm),Water (%)

#### **Characteristics of the lubricant:**

Viscosity (mm2/s) at 40°C and 100°C , Viscosity Index Acid Number TAN (mg KOH/g)

#### Microscopic examination:

The oil is filtered at 5 micron. The filtrate containing particles from wear, contamination, sealings and friction material is examined under microscope. A photograph is included in the report and is also available on the TOTAL ANAC website.

#### **Optional:**

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

# **DIAGNOSIS AND COMMENTS**

The diagnosis and comments are established by an TOTAL ANAC technician, specialised in machine and lubricant technology, supported by the TOTAL ANAC database of reference data on all current part types.

The TOTAL ANAC VISIO expert takes into account the specific knowledge on the usage condictions and possible remarks by the user.

Personalised answers on questions by the users are provided.

The specific knowledge of ferrography allows the TOTAL ANAC VISIO technician to examine the colour, shape, size and number of the metallic and non-metallic particles in the oil. This leads to a detailed diagnosis on the source and severity of the wear and contamination of the system.



# **DIAGNOSIS REPORT**

The diagnosis report is available within 24 hours after reception in the lab and can be dispatched either by post or e-mail. It can also be consulted on the Internet. In urgent cases, the report will be faxed, as soon as the diagnosis is available.





#### A website that helps to manage the park monitoring: www.anac-diagnosis.com

#### A personal and secured access allows:

- Consultation of new results and history
- Picture of microscopic examination
- Graphical display of analyses results
- Queries
- Downloads of Excel and pdf files
- Statistics
- Available in 7 languages

- On-line recording of data of new samples
- Mobile version for smartphones & tablets



### **TOTAL ANAC MAKES A DIFFERENCE**

- Diagnosis supported by a historical database.
- Comments by a specialised technician.
- Microscopic examination determines exact nature of wear and contamination.
- Reports available by post, e-mail, fax and Internet.
- Over 15 year of experience in ferrography.
- Reports available in 19 languages.

