TOTAL ANAC EXPERT



The in-depth diagnostics system for driveline components

TOTAL ANAC Expert is an in-depth, personalised diagnosis system for engines, gearboxes and other driveline components.

TOTAL ANAC 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: Iron, Lead, Copper, Tin, Chromium, Aluminium, Nickel (ppm)

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 Base Number TBN* (mg KOH/g) or Acid Number TAN** (mg KOH/g) Sulphated Ash and Oxidation*

Optional:

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

DIAGNOSIS AND COMMENTS

The diagnosis and comments are established by an TOTAL ANAC expert, specialised in engine and lubricant technology, aided by the TOTAL ANAC database with reference data of all current part types, calculated on over 4 million performed analyses.

Also the database of feedback on successful corrective actions by the users is at the disposal of the specialist of the TOTAL ANAC EXPERT analysis.

The specialist of the TOTAL ANAC EXPERT analysis takes into account the specific knowledge on the usage conditions and possible remarks by the user.

Personalised answers on questions by the users.



^{*} engines - ** other components

DIAGNOSIS REPORT

The diagnosis report is available within 48 hours after reception of the oil sample in the lab and can be dispatched either by post or e-mail, and can be consulted on the Internet. In urgent cases, the report will be faxed, as soon as the diagnosis is ready.











Dangerous situation

	ANAC, a s	ervice of the TOTAL g	roup	- A		
AMAC references: FFVD =161 Your references: Vehicle: P21 10012 Component: Descel engine					←	Colour code : green , orange, red
ake and type:		TOTAL SPECIMEN /	ZZ			
omponent: XXXX Diagnosis date: 14 march 2014 Oil: Total Rubia Tie 7400 15W40						
Sample date Sample Number Working time Mileage oil	15-MAR-10 14-Fi 60023452 6003 7051 H 8	PERT EXPERT EB-11 21-MAR-12 33891 60087880 042 H 9012 H 000 H 1000 H	EXPERT EXPERT 18-OCT-13 05-FEB-14 60105688 60133230 10027 H 11089 H 1000 H 1000 H	1	←	Administrative data on customer, machine, part, oil sample
Wear Iron ppm Lead ppm Copper ppm Tin ppm Chromium ppm Aluminium ppm Nickel ppm	1 4	18 4 3 1 2 5 <1 <1 <1 <1 <1 <1 5 2 <1 <1	4 6 2 15 5 190 <1 <1 <1 <1 <1 <1 2 1 <1 <1		←	 Wear elements and evaluation (colour)
Si-Foreign ppm Soot % Water % Cooling liq. %	OK OK	6 4 0.4 0.2 OK <0.07 OK OK OK OK	2 2 0.0 0.0 OK OK OK *** OK 3.4		←	 Contamination elements and evaluatio (colour)
Oil mgKOH/g B.N. mgKOH/g Visc. 40°C mm2/s Visc. 100°C mm2/s Visc. Index Sulph. Ash IR oxi meas A/cm IR oxi net A/cm	95.7 9 13.2 1 137 1.0 19.5 1 2.5	8.5 11.2 11.9 107.4 2.8 14.3 136 136 1.0 1.2 18.7 22.5 1.5 3.5	10.7 11.3 103.7 103.3 13.8 14.0 134 137 1.3 1.2 18.7 20.4 0.0 0.0		←	Characteristics of the lubricant and evaluation (colour)
Interpretation of the diagnosis *** Attention: The measured values of certain elements strongly suggest that there is cooling liquid contamination in the oil. *This pollution increases the wear. Metal content to high. *Control the tightness of the coolant circuit *Make a control sample after intervention					4	Comments: • User memo • Diagnosis comments by the
						TOTAL ANAC expert • Remarks

The history of the 5 most recent diagnosis is displayed on the report.

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

A personal and secured access for:

- Consultation of new results and history
- Graphical display of analysis results
- Queries
- Downloads of Excel and Pdf files
- Statistics

Available in 7 languages

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



TOTAL ANAC MAKES THE DIFFERENCE

- Database on more than 4 million performed analyses, over 400.000 parts in follow up
- Database on feedback of successful interventions after TOTAL ANAC diagnosis
- Specific and personalised comments
- User friendly website for management of diagnosis data
- · Reports available by post, e-mail, fax or Internet
- More than 35 years of experience
- Reports available in 19 languages



