

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

* engines - ** other components

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.



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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.



Satisfying diagnostic



Slight deviations



Anomaly observed



Dangerous situation

ANAC, a service of the TOTAL group

ANAC references : FFVD --16 --1
 Your references :
 Vehicle: P2110012
 Component: Diesel engine

Make and type:
 Vehicle: XXXX
 Component: XXXX

Diagnosis date: 14 march 2014
 Oil : Total Rubia Tr7400 15W40

	EXPERT	EXPERT	EXPERT	EXPERT	EXPERT
	15-MAR-10	14-FEB-11	21-MAR-12	18-OCT-13	05-FEB-14
Sample Number	60023452	60033591	60037680	60105688	60133330
Working time	7051 H	6042 H	9012 H	10027 H	11089 H
Mileage oil	1000 H	1000 H	1000 H	1000 H	1000 H
Wear					
Iron ppm	30	18	4	4	6
Lead ppm	7	3	1	2	15
Copper ppm	9	2	5	5	190
Tin ppm	4	<1	<1	<1	<1
Chromium ppm	1	<1	<1	<1	<1
Aluminium ppm	4	5	2	2	1
Nickel ppm	<1	<1	<1	<1	<1
Contamination					
Si-Foreign ppm	6	6	4	2	2
Soot %	0.4	0.4	0.2	0.0	0.0
Water %	OK	OK	<0.07	OK	OK
Cooling liq.	OK	OK	OK	OK	***
Fuel %	OK	OK	OK	OK	3.4
Oil					
B.N. mgKOH/g	8.3	8.5	11.2	10.7	11.3
Visc. 40°C mm2/s	95.7	91.9	107.4	103.7	103.3
Visc. 100°C mm2/s	13.2	12.8	14.3	13.8	14.0
Visc. Index	137	136	136	134	137
Sulph. Ash %	1.0	1.0	1.2	1.3	1.2
IR ox. meas. A/cm	19.5	18.7	22.5	18.7	20.4
IR ox. net. A/cm	2.5	1.5	3.5	0.0	0.0

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 too high.
 • Control the tightness of the coolant circuit
 • Make a control sample after intervention

Colour code : green , orange, red

Administrative data on customer, machine, part, oil sample

Wear elements and evaluation (colour)

Contamination elements and evaluation (colour)

Characteristics of the lubricant and evaluation (colour)

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



Available in 7 languages

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



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