TOTAL ANAC INDUS

INDUSTRIAL OILS MONITORING BY ANALYSIS

TOTAL ANAC Indus is required to :

- Monitor the evolutions in the state of the oil.
- Assess the operating conditions of the machine.
- Reduce the maintenance costs.
- Plan the maintenance operations and reduce the production stoppages.
- Optimize the oil drain frequencies .
- Control that the lubricant used is the best suited to the operating conditions.
- Identify the origin of possible pollutions.
- Use along other condition based maintenance methods (vibration analyses, thermography, etc.)

ANALYSIS STANDARDS AND OPTIONS

Classic (standard) :	Hydraulics, Bearings, Compressors, Reducers, other industrial oils
Turbine (standard) :	Turbine oils
Frigo (standard) :	Refrigerating machine compressor oils
Calo (standard) :	Heat transfer oils
Trempe (standard) :	Quenching oils
VI (option) :	Viscosity @100°C and viscosity index (VI)
OPTIC (option) :	Microscopic analysis
AIR (option) :	Foaming and air release
PARTIC LNF (option) :	Particle counting (Lnf)

DIAGNOSIS AND COMMENTS

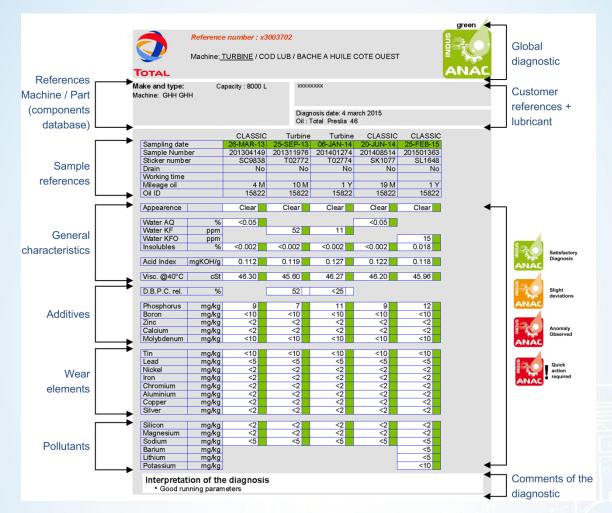**The Anac Indus diagnostic of an oil will rely on :**

- Its nature (commercial name + grade) : ex Azolla ZS 32
- Its application : ex Hydraulic
- The type of industry : ex Paper industry.
- The lubricated machine :
      Criticality.
      Capacity of the tank.
      Operating conditions.
- Previous analyses :
      History of the oil.
      History of the machine.
- Remarks and comments written by the customer

DIAGNOSIS REPORT

The diagnosis report is available within 72 hours (Classic standard) after reception in the lab.
It is dispatched either by post or e-mail, and then is available on the Internet

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Global diagnostic

Reference number : x3003702

Machine: <u>TURBINE</u> / COD LUB / BACHE A HUILE COTE OUEST

References Machine / Part (components database)

Customer references + lubricant

| Make and type: | Capacity : 8000 L | xxxxxxxxx |
| Machine: GHH GHH | | |

Diagnosis date: 4 march 2015
Oil : Total Preslia 46

Sample references

		CLASSIC	Turbine	Turbine	CLASSIC	CLASSIC
Sampling date		26-MAR-13	25-SEP-13	06-JAN-14	20-JUN-14	25-FEB-15
Sample Number		201304149	201311976	201401274	201408514	201501363
Sticker number		SC9838	T02772	T02774	SK1077	SL1648
Drain		No	No	No	No	No
Working time						
Mileage oil		4 M	10 M	1 Y	19 M	1 Y
Oil ID		15822	15822	15822	15822	15822

General characteristics

Appearance		Clear	Clear	Clear	Clear	Clear
Water AQ	%	<0.05			<0.05	
Water KF	ppm		52	11		
Water KFO	ppm					15
Insolubles	%	<0.002	<0.002	<0.002	<0.002	0.018
Acid Index	mgKOH/g	0.112	0.119	0.127	0.122	0.118
Visc. @40°C	cSt	46.30	45.60	46.27	46.20	45.96

Additives

D.B.P.C. rel.	%		52	<25		
Phosphorus	mg/kg	9	7	11	9	12
Boron	mg/kg	<10	<10	<10	<10	<10
Zinc	mg/kg	<2	<2	<2	<2	<2
Calcium	mg/kg	<2	<2	<2	<2	<2
Molybdenum	mg/kg	<10	<10	<10	<10	<10

Wear elements

Tin	mg/kg	<10	<10	<10	<10	<10
Lead	mg/kg	<5	<5	<5	<5	<5
Nickel	mg/kg	<2	<2	<2	<2	<2
Iron	mg/kg	<2	<2	<2	<2	<2
Chromium	mg/kg	<2	<2	<2	<2	<2
Aluminium	mg/kg	<2	<2	<2	<2	<2
Copper	mg/kg	<2	<2	<2	<2	<2
Silver	mg/kg	<2	<2	<2	<2	<2

Pollutants

Silicon	mg/kg	<2	<2	<2	<2	<2
Magnesium	mg/kg	<2	<2	<2	<2	<2
Sodium	mg/kg	<5	<5	<5	<5	<5
Barium	mg/kg					<5
Lithium	mg/kg					<5
Potassium	mg/kg					<10

Interpretation of the diagnosis
- Good running parameters

Comments of the diagnostic

Satisfactory Diagnosis

Slight deviations

Anomaly Observed

Quick action required

A website to manage all your ANAC analyses :
www.anac-diagnosis.com

A personal and secured access:
Export of the results to TIG 6 software.
Download in PDF or Excel files.
Monitoring of trends for all analysis data.
Query on administrative and analytical data.
Recording of new machine/component.

Available in 6 languages