

DynAlim®

An innovative tool analysing equipment's supply currents

- Rapid diagnosis of motors and generators
- A direct image of the shaft line's torque fluctuations
- An automatic analysis of AC or DC power supply modulations

- A simple measuring process
- A data base for managing a considerable stock of equipment
- Setting up a base of experience and follow-up database of maintenance actions



■ The dynamic analysis of electrical currents

Faults inducing instantaneous torque or rotation speed fluctuations are not easily identifiable, either by standard analyses or by complementary techniques (e.g.: vibratory analysis).

However, current fluctuations constitute a live image of the torque fluctuations which lead to them.

DynAlim® makes it possible to analyse these faults by automatically extracting indicators from the FMA and FMF of the AC or DC current.

■ An automatic analysis of the signals ...

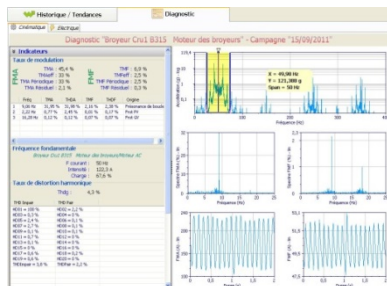
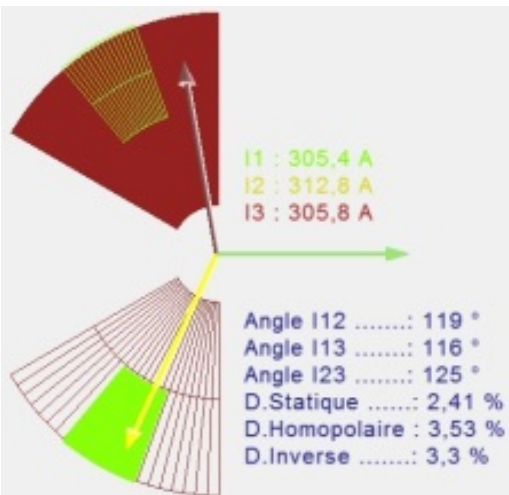
The data which is representative of the motors' current or voltages is processed automatically in order to highlight the fault indicators: FMA, FMF, the corresponding spectra, the TMA/TMF, TDH, modulation frequencies...

■ ... for clear recommendations

An assistant providing aid in analysing the results facilitates the editing of the recommendations sheet.

The analyses, recommendations and maintenance actions are displayed for the various operations, motor by motor .

The qualification of each machine condition materialised by a coloured dot.

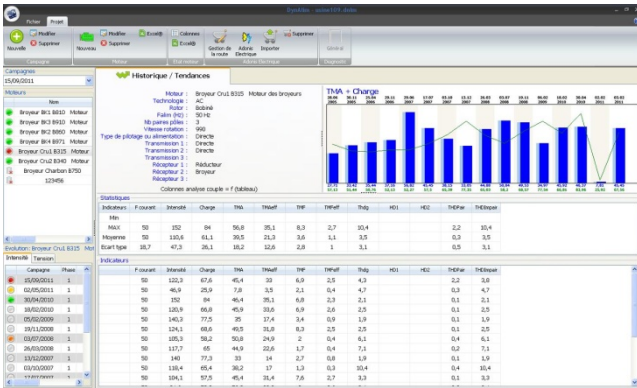


Moteurs	Nom	Mode	Type	Préconisation	Maintenance
●	Broyeur Bx1 8810	Moteur	I AC	RAS	
●	Broyeur Bx3 8910	Moteur	I AC	RAS	
●	Broyeur Bx2 8950	Moteur	I AC	RAS	
●	Broyeur Bx4 8971	Moteur	I AC	RAS	
●	Broyeur Cru1 8315	Moteur	I AC	Moteur à surveiller	
●	Broyeur Cru2 8340	Moteur	I AC	RAS	
●	Broyeur Charbon 8750	I AC	OC		
●	123456	I	OC		

Evolution: Broyeur Cru1 8315 Moteur des broyeurs					
Intensité	Tension	Phase	Préconisation	Analyse	Taux de modulation
●	15/09/2011	1	Moteur à surveiller	Taux de modulation en	
●	02/05/2011	1	Evolution à surveiller	Taux de modulation en	
●	30/04/2010	1			
●	18/02/2010	1			
●	05/02/2009	1			
●	19/11/2008	1			
●	03/07/2008	1	Vérifier l'état des	Taux de modulation un	
●	26/03/2008	1			
●	19/12/2007	1			
●	03/10/2007	1			
●	17/07/2007	1			

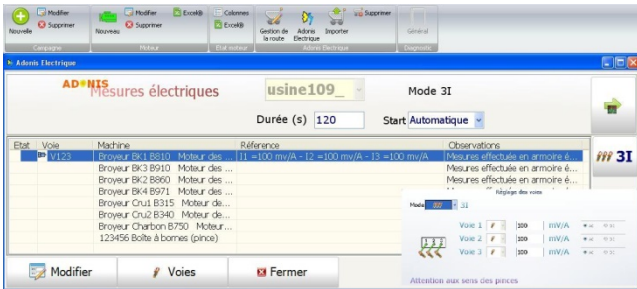
- **A detailed follow-up database**

Dynalim® keeps all the indicators calculated for each piece of equipment and for the whole history. Evolution curves for such and such an indicator can therefore be consulted at any time.



- **A simplified measuring process**

Organised in routes, the lists of equipment are managed easily by the acquisition module. Fully compatible with the CTMO®, DynAlim® optimises the loading of routes, and downloading of the recordings collected.



- **Additional vector analysis for three-phase measurements**

In the event of the 3 phases being measured simultaneously, an analysis of the imbalances is carried out in the form of a Fresnel and Park diagram.

