OLTC VIBRO-ACOUSTIC DIAGNOSTIC PRINCIPLE

Marc FOATA
On-line Measurement

Accelerometer

Current sensor
« Acoustic » Signature

Acoustic Signal

Motor Current
Interpretation of signatures
**Portable System Features**

- Simple interface to carry out the measurement: The measurements will be integrated in the regular duties of the maintenance crews.

- Completely configurable: The software easily adapts to new types of OLTC and the analysis suitable to each model can be programmed without recoding.

- Two levels of diagnostic:
  - A first level of diagnostic is immediately available on location to the maintenance crew.
  - A second in-depth diagnostic can also be applied as required by a trained technician or engineer using a more elaborate set of tools.
### Field Report

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#### Rapport de Mesure

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- **Échelle**: 1-3
- **Unité**: ms
- **État**:
  - Ok
  - Doubts

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List of OLTC malfunctions

- Brake Failure
- Contact wear
- Human errors
- Arcing in diverter
- Arcing in selector
- Misalignment
- Drive mechanism wear
- Mechanical failure
- Insulation (tracking)
- Synchronism
- Coking