Ferrous Debris Monitor Ferro-D101

Introduction:

Our portable ferrous debris monitor uses electromagnetic induction technology to measure the content of ferromagnetic wear particles in oil. Periodical monitoring of these particles in oil, helps the end user to predict any deterioration in machine condition in advance, to prevent failures by taking timely mitigation actions.

Trend check of ferrous debris helps in identifying cases of poor lubrication, and providing a quick judgement of the lubrication health status of machine on site.
This unit comes with a rugged suitcase that makes it easy to carry for field work or in laboratory test.

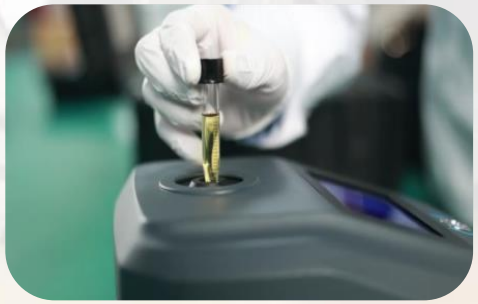
The Portable Ferrous Debris Monitor consists of;

- **High-performance ARM processor**
- **Ferromagnetic sensor**
- **5-inch touch screen**
- **USB interface**
- **Built-in battery, etc.**

Only 2 ml oil sample is needed to conduct the measurement within 5 seconds, and the concentration of ferromagnetic wear particles in oil sample is measured conveniently & quickly. No further sample preparation and training is required for users to operate.

Ferro-D101 Monitor Kit Includes:

- **0 PPM and 1050 PPM Calibration Sample**
- **100 Disposable Test Tubes**



Measuring range	**0-5500 mg/L (PPM)**
Power	**AC 110~240V, 50/60Hz**
Sensitivity	**1mg/L (PPM)**
Detection repeatability	**≤1% RSD**
Sampling volume	**2ml**
Detection speed	**< 2 seconds**
Oil temperature range	**0～50℃**
Working hours	**＞5 hours**

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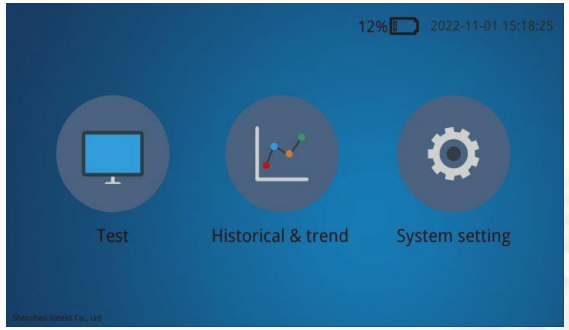
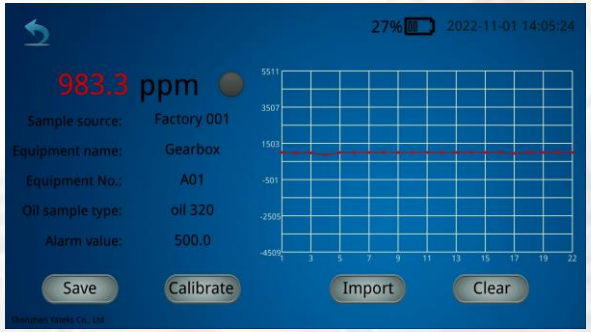
Features and Advantages

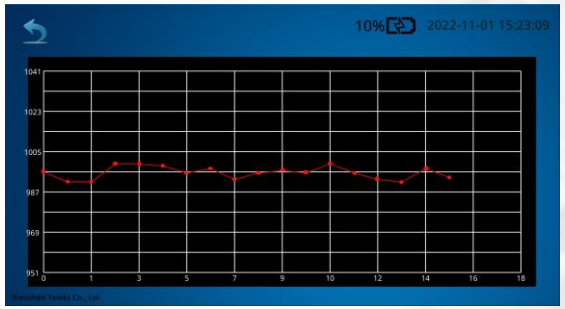
- Fast measurement with good repeatability, needs only 2 ml oil sample
- Easy to operate, all operations can be completed by touching the screen
- Full English interface, the test results are displayed instantly
- Trend check help further analysis on root causes of poor lubrication
- The PC software can can perform trend analysis and displays the change of wear intensity index;
- No training for users to operate;
- Built-in battery, convenient carry for on-site oil analysis;
- Calibration independent of base fluid used



Main interface



Real-time results display



Trend analysis

	A	B	C
1	Time	Working time	Measurement result
2	2022-11-12-00-00-38	10	796.6
3	2022-11-12-00-00-16	22	804.4
4	2022-11-12-00-00-44	60	932.6
5	2022-11-12-00-00-20	1	822.4
6	2022-11-12-00-11-32	22	700.8
7	2022-11-12-00-12-21	22	790.5
8	2022-11-12-00-00-29	10	0

Export test records

Applications

- **Oil Analysis Labs**
- **Wind Energy**
- **Oil & Gas processing**
- **Power Generation**
- **Offshore & Power generation**
- **Transportation**
- **Aerospace**
- **Process Machinery**
- **Onsite Oil analysis**
- **Military**
- **Manufacturing**