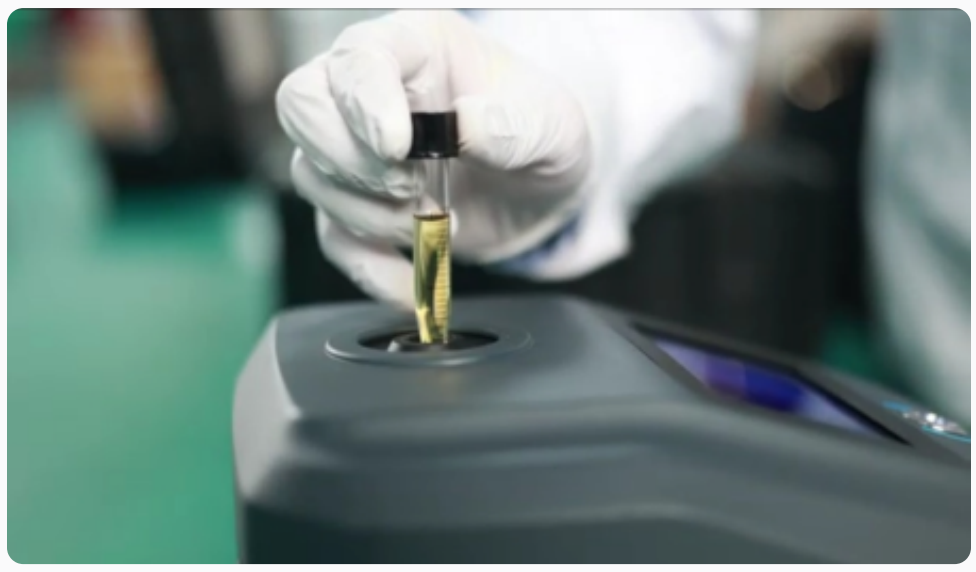
The KLTL-2 Ferrous Debris Tester



The KLTL-2 Ferrous Debris Tester is a portable device designed to detect potential machinery degradation early. Its electromagnetic induction technology offers exceptional sensitivity and ease of use.

Enables precise measurement of ferromagnetic particles in oil samples.

- **Sample Volume Efficiency:** Requires a mere 2ml of oil sample for highly accurate measurements.
- **User-Friendly Operation:** Intuitive touchscreen interface for easy and straightforward operation.
- **Instant Display:** Immediate and precise test results shown on a 5-inch touchscreen display.
- **Portability:** Encased in a durable suitcase, facilitating effortless use in the field or laboratory settings.
- **Advanced Components:** Includes a high-performance ARM processor, ferromagnetic sensor, USB interface, and a reliable built-in battery.
- **No Sample Preparation:** Streamlines the process by eliminating the need for additional sample preparation before measurement.
- **No Training Required:** Users can operate the device effectively without specific training or extensive learning curves.
- **On-Site Analysis:** Features a built-in battery for convenient on-site oil analysis without relying on external power sources.
- **Independent Calibration:** Calibration remains unaffected by the base fluid used, ensuring consistent and reliable measurements across various oil types.

Advantages :

Speed

Fast measurement with good repeatability.

Ease of Use

All operations can be completed via the touchscreen interface.

Language

Full English interface for immediate display of test results.

Trend Analysis

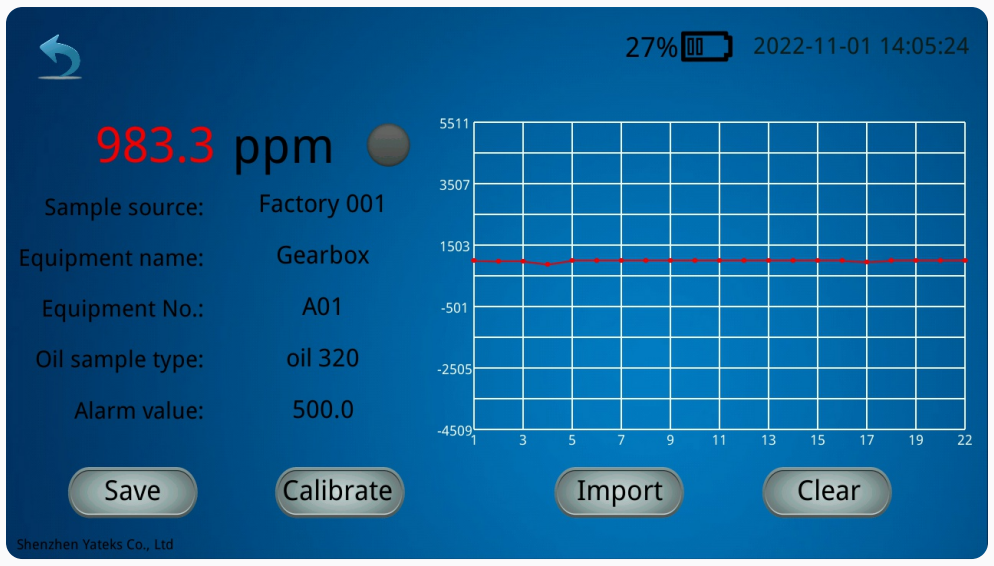
Capability for root cause analysis of poor lubrication through trend checks.

Technical Specifications :

Measuring Range	0-5500 mg/L (PPM)
Sensitivity	1 mg/L (PPM)
Detection Repeatability	≤1% RSD
Sampling Volume	2 ml
Detection Speed	< 2 seconds
Oil Temperature Range	0°C to 50°C
Screen	5-inch capacitive touch screen, 1280x720
Storage Memory	32G
Power	AC 100-240V, 50/60Hz
Battery Capacity	3400 mAh
Working Hours	>5 hours
Power Consumption	<5 W
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C (including battery)
Dimension	250 x 218 x 133 mm
Instrument Weight	2.7 kg

How the KLTL-2 Ferrous Debris Tester Works

The KLTL-2 Ferrous Debris Tester utilizes electromagnetic induction technology to detect ferromagnetic wear particle concentrations in oil samples. The device is highly sensitive and requires only 2ml of oil sample for accurate measurements. The results are displayed on a 5-inch touchscreen, and all operations can be completed through the simple interface.



Applications of the KLTL-2 Ferrous Debris Tester

Oil Analysis Labs

For comprehensive oil analysis procedures.

Wind Energy

Monitoring oil quality in wind turbines.

Oil & Gas Processing

Detecting wear particles in oil used in gas processing equipment.

Power Generation

Assessing oil condition in power generation machinery.

Offshore & Power Generation

Suitable for offshore machinery and power generation equipment.

Transportation

Monitoring oil quality in transportation machinery.Conclusion

The KL TTL-2 Ferrous Debris Tester, employing electromagnetic induction technology, swiftly detects machinery degradation. Its exceptional sensitivity supports predictive maintenance, saving time and costs. Versatile across industries like Oil Analysis Labs, Wind Energy, Oil & Gas processing, Power Generation, Offshore & Transportation, it accurately measures ferromagnetic wear particles in oil samples, offering a reliable solution for early detection

Applications

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