

MRG Wind Turbine Service Offerings

Reliable | Repeatable | Streamlined

Grease Analysis

MRG Labs utilizes the Grease Thief® technology to provide unparalleled insight into the health of **main, pitch and yaw bearings** in wind turbines.

Per ASTM D7718, the Grease Thief® Sampling Tool obtains representative grease samples using a repeatable technique, regardless of who is securing the sample.

Repeatable and representative samples are easily extracted and sent to the laboratory where tests can be performed at a fraction of standard grease analysis costs.

Benefits

Only one gram of grease is needed to gather information on the: **Wear, Consistency, Contamination and Oxidation** properties of the grease. Up to eight laboratory tests can be done with one gram of grease:

1. Grease Thief® Die Extrusion
2. fdM+ ferrous debris
3. Grease Colorimetry
4. RDE Spectroscopy
5. FTIR
6. RULER
7. Analytical Ferrography
8. Rheology

High Value Analysis

The Grease Thief® sampling & analysis methodology was developed over several years of research with the European Offshore bearing grease analysis research team. These tests are now outlined in **AWEA RP-812 – 815, Recommended Practice for Grease Sampling & Analysis**. The Grease Thief® sampling tools are **ASTM D7718** compliant.

Gearbox Oil Analysis

This comprehensive test package for gearboxes is designed to evaluate the condition of the lubricant and the component. The tests performed in this package include RDE Spectroscopy, Direct Read Ferrography (DR III), FTIR, water by Karl Fischer, Viscosity @ 40 C, RULER and particle count (ISO 4406).

Webview 2000 Access

Webview 2000 is a web-based data management system that provides customers real-time access to all analysis results for authorized users.

The system catalogs turbine identification number, turbine type/model number, lubrication information, equipment history and data history.

