

DT100—Dispersancy Tester

Innovation by AD Systems

Dispersancy is the property that allows oil to suspend and carry away pollutants of diverse sources such as soot from combustion, metallic particles from wear, corrosion of mechanical parts, and insoluble products resulting from the aging of the oil.

The Blotter Spot Test dates back to the early 1950s. It is one of the oldest techniques used to identify excessive engine soot, evaluate a lubricant's dispersancy, and detect the presence of glycol, fuel and other contaminants in engine crankcase lubricants.

For large Fleet Operators and Oil Conditioning Monitoring Laboratories, this simple, yet powerful technique, can provide valuable information when used as a screening tool.

Though this method has proven effective, individual subjectivity in readings and interpretation of oil spots effects the reliability of results.

To help oil analysts and engine diagnostic specialists take advantage of this valuable technique, AD systems, in cooperation with a lab dedicated to Oil Conditioning Monitoring (OCM), has developed a modern automatic instrument offering significant increases in accuracy and repeatability of measurements.

This new technique removes all arbitrary aspects of manual spot interpretation. The DT100 is the **only** instrument that automatically and simultaneously measures contamination index (content of sooty insoluble material in the oil) and provides unique information on oil dispersancy. This unique information helps to justify corrective actions and maintenance planning decisions. It is an integral part of the OCM programs for in-service lubricants.

The DT100 takes a spot image with a built-in digital camera. In seconds, the software scans and analyzes all the different areas of the oil spot and automatically calculates the quantitative quality parameters of a motor oil in service.

The DT100 has been designed to satisfy needs of OCM laboratories. It is an easy-to-use and robust analyzer equipped with enhanced quality and communication features. The spot images can be stored on USB storage devices and sent to local networks (LIMS) with an Ethernet interface. Versatile communication protocol is configurable for the specific requirements of each laboratory. The DT100 provides fully traceable electronic data storage eliminating the need for paper archiving. A laboratory technician can perform on-site calibration in minutes using a standard calibration tool supplied with the instrument. The DT100 complies with modern QA/QS laboratory practices.



Applications

- Oil Conditioning Monitoring (OCM)
- Oil testing laboratories
- Engine test laboratories
- Fleet maintenance
- Construction or Mining sites
- On-board Ship
- Lubricant Research and Development

Benefits

- Dispersancy measurement and soot content quantification
- Removes all arbitrary aspects of manual method
- Ideal for trend analysis in OCM programs and diagnosis on diesel engines

Note: Specifications subject to change.

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