

The 4 Types of Maintenance Concepts

LubeDoc 3

Different types of oil analysis test for you and your equipment:

There are many types of oil analysis tests that can be run to help determine "Root Cause Failure" of your equipment. It all depends on what type of "MAINTENANCE CONCEPT" you are trying to achieve for your company or yourself. There are basically four types of "Maintenance Concepts" that most of us use:

Unplanned Maintenance:

- a. Very high maintenance cost
- b. Short Component Life
- c. No time for failure analysis

Preventive Maintenance:

- a. Moderately high maintenance cost
- b. Over and under maintained equipment
- c. Short component life

Predictive Maintenance:

- a. Reduced maintenance cost
- b. Increase production
- c. Increased component life

Proactive Maintenance:

- a. Root cause analysis guides your maintenance action.
- b. Reduces the number of breakdowns
- c. Tending to develop unique component history

The main reasons for performing Oil Analysis testing is to improve the quality of equipment and machinery maintenance decisions. Without this data, we run in the "Unplanned Maintenance" group and spend more money fixing machinery and equipment that usually can be detected by oil sampling.

There are basically three categories of oil analysis testing:

- 1) Wear Metal debris analysis
- 2) Fluid Properties (Oil condition)
- 3) Contamination

To run your company to a "Proactive" level of maintenance usually involves doing all three tests as a necessity. But most of all, the Fluid Properties and Contamination are the most commonly used tests. This way you can determine if the oil is safe for continued use and what environmental elements are entering into the equipment's vital components.