

# OIL ANALYSIS & TRIBOLOGY

To improve reliability of plant, many companies implement predictive maintenance program that using various technology to monitor machine health and eliminate at least reduce unplanned breakdown and extend MTBF of machine.

As vibration, oil analysis is important technology in monitoring critical machine. Gearbox and turbine are examples machines that more powerful if monitored using oil analysis technology. Common problem that occurred are method and procedure of sampling oil, interpretation of oil analysis report and non integration of oil analysis report with other technology like vibration. This course explain how to good sample method, how to analyze data, interpret report and how to integrate oil analysis data with vibration to build comprehensive report.

This 3 (three) days course is designed for participants in order to improve knowledge and skill in

- Read and understand oil analysis report
- Understanding if you are using the wrong oil
- Squeeze maximum life out lubrication
- Set optimum Oil analysis limit
- Capable to take oil sampling with correct method and procedure\
- Have capability to analyze and building report

### *Participants :*

All Maintenance Professionals, Reliability Engineers, Lubrication Engineers & Technicians, Equipment Operators, Manufacturing and Industrial Engineers, Vibration Instrument Specialists, Predictive Maintenance Technicians, Laboratory Analysts

## OUTLINE

- Overview on Oil Analysis and Tribology
  - Introduction to Machinery Lubrication
  - Oil Sampling – The Very Best Practices
  - Oil Analysis Report
  - Alarm Setting for Oil Analysis Program
- Physical and Chemical Properties Analysis
  - Analysis for Oil Viscosity & Acid Number and Base Number
  - Detection and Root Cause of Oxidation
  - Workshop on Fluid Property Analysis
- Contamination Control and Proactive Maintenance
  - Damage Caused by Oil Contamination
  - Effect of Incorrectness ISO Code Target
  - Contamination Control Program
  - Water Effect and Foam Problem
  - Proactive Maintenance Steps to Control Contamination



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