



The South African Institute of Mechanical Engineering

Lubricants and Oil Monitoring Workshop

Only delegates who have attended SAIMechE's 'Practical Lubrication & Lubricants' Workshop, held in each area on the day before this workshop, may attend. This is because it is essential that delegates fully comprehend the material previously covered.

Duration - 1 Day : Time - 08h30 – 16h30 (Registration at 08h00)

Manual, teas and lunch provided

CPD Validation Number: SAIMechE-1100-12/20

This workshop will earn delegates 1 credit in Category 1

This workshop is suitable for SAIMechE Groups 0, 1, 2 & 3a

This workshop is developed and presented by

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SAIMechE Group Classification

0 = Non-technical,
e.g. HR,
Finance

1 = Candidate (including GCC) with <5 years experience

2 = Professional (including GCC) with <15 years experience

3a = Professional and Appointment with >15 years experience with specialist interest

3b = Senior Management with >15 years experience

Overview

The life of every machine depends on the effectiveness of lubrication and therefore the selection of proper lubricants, their correct application and monitoring are essential parts of operating the machinery. People responsible for production need the basic knowledge of lubricants to make decisions that could be crucial for the company. A wrong lubricant, or a lubricant wrongly applied, can stop the plant.

This highly interactive workshop is designed for:

- (a) decision makers and plant personnel who could be involved in selecting lubricant suppliers or lubricants, or will discuss lubricants with the suppliers, or who could be faced with lubricant-related problems;
- (b) supervisors and their managers responsible for maintenance of vehicles and industrial machinery (e.g. compressors, grease and oil lubricated bearings, gearboxes, hydraulic systems or machine tools);
- (c) people who need to implement oil sampling and understand the results.

A recent report claims that billions of Euros are lost each year because of unnecessary repair work which has to be carried out on processing equipment that has not been correctly lubricated.

Industrial as well as automotive lubricants vary in terms of performance as well as their composition.

We will discuss this. For example, some lubricants contain synthetic oils. This workshop will help you understand when it is necessary to use synthetics.

Contents

- Applying the knowledge gained in the Practical Lubrication & Lubricants workshop.
- Monitoring equipment without taking samples. Taking samples correctly, selecting tests and understanding and normalizing the results. Sampling frequency. Oil cleanliness monitoring. Sources of oil contamination. Oil degradation. Water in oil. Wear limits. Improving service life by filtration.