

# ENERGY & COST SAVINGS

ENSURING YOUR LONG-TERM PEACE OF MIND.

## VALUE ADDED SERVICES

### OIL ANALYSIS

Predictive Services

## ABOUT DAIKIN APPLIED ASIA & OCEANIA

Engineered for Performance and Flexibility

- Daikin Group is global leaders in the Air Conditioning sector.
- 96,000 employees globally.
- Over 100 Production manufacturing sites across the world.
- Providing technological solutions in more than 170 countries in the world.
- Daikin Applied Asia & Oceania is a subsidiaries under Daikin Industries Ltd Group ("Daikin") of companies.

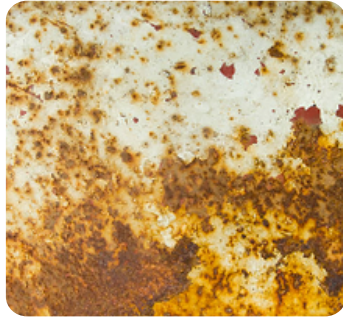


[www.daikinapplied.com](http://www.daikinapplied.com)



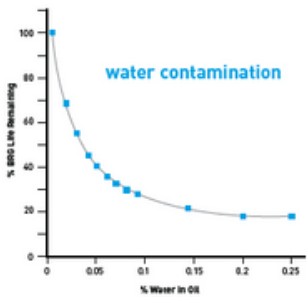
## Why Perform an Oil Analysis?

Oil comes in contact with many important internal components and can therefore hold valuable information about a chiller's condition. The presence of harmful acids, corrosion causing water and abnormal metal wear particles can all be detected by chemical analysis.



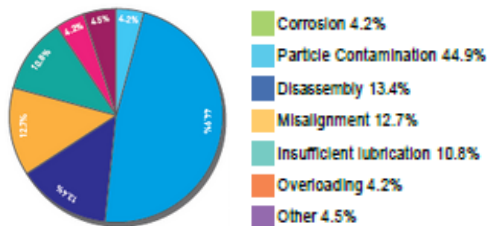
Laboratory analysis of chiller oil samples can identify potential problems so they can be remedied before they become disruptive headaches.

## How Oil Impacts Your Chillers



Water breaks down the oil, decreasing important lubricating properties, resulting in a much shorter bearing life.

### Causes of Bearing Failures



## A Diagnostic Window to Your Chiller



### Identifies

- Lubricant condition
- Internal contamination
- Abnormal wear
- Mechanical condition

### Results

- Earlier detection of problems
- Lower operating costs
- Increased reliability

Done once  
every 1-2  
years

## Benefits



### Reduce Downtime

Prevent catastrophic chiller failure and eliminate the cost of unexpected shutdowns.



### Minimize Costly Repairs

Helps pinpoint areas to be checked so scheduled repairs can be done quickly and cost effectively.



### Receive Realistic Data

One can collect accurate data about a system's performance and operating conditions.



### Prevent Compressor failure

Able to determine whether the weight load is too high, detect leaks and/or potential corrosion.