

Oil Analysis

Chemical Laboratory



Oil is the lifeblood of the compressor

An oil assessment provides you with information about the normal operating trends of your compressor's wear metals and your oil's condition. Regular lubricant analysis can be used to determine proper change intervals, as well as to predict problems before they become more serious.

The Trane Chemical Laboratory

The Trane Chemical Laboratory has been serving the HVAC industry for over 45 years. By focusing on this industry, we have developed the specialized expertise to analyze fluids from lithium bromide solutions to refrigerants. Backed by the world leader in chiller manufacturing, the Trane Chemical Laboratory has experience analyzing virtually all types of lubricants.

Why perform oil analysis?

Routine analysis of the lubricants in your HVAC equipment is essential to the proper maintenance and operation of the entire system. The Trane Chemical Laboratory services are a cost-effective way to trend the condition of your systems.

Oil is vital to the compressor, and regular analysis should be used to ensure that it is contaminant-free. Evaluation can help ensure that internal components are not prematurely wearing.

Fluid sampling can also be used to wear trend your equipment for maintenance planning purposes. Proactive maintenance can save you money as well as costly unplanned downtime.

The Trane Chemical Laboratory can analyze lubricant from almost any compressor make and type. In addition to the standard lubricant analysis test, we can also perform viscosity, aniline point and solid residue tests.

What does an oil analysis provide?

The lubricant analysis provides data to establish the integrity of the oil and allows us to identify any potential contaminants in your system, such as moisture, acid and other potential problems. This may allow you to extend the life of your oil.

Year-over-year trend data on the metallic components of the equipment is also provided by an oil analysis; this can help predict the wear of the equipment and any potential problems.

Trust the Trane Chemical Laboratory with your oil

The Trane Chemical Laboratory maintains a database of all past results from a particular machine, which can show trending over the life of the equipment. A baseline reading is recommended when the equipment is new; as it gets older, we use the data to predict any potential problems before they become catastrophic.

The Trane Chemical Laboratory has over 45 years of experience in the HVAC field, and we have access to the latest information regarding your equipment. Our analysts also have experience with a wide variety of oils and stay on top of industry testing and chemical trends, including emerging products. At the same time, we cater to those who have trusted the same lubricants for many years. No matter what oil you trust in your system, the Trane Chemical Laboratory has the experience and the expertise to evaluate it.

An important part of the Trane service team

An oil analysis, performed by a knowledgeable lab and interpreted by a qualified service engineer, will provide you with valuable information about your oil. We're Trane - we know oil.

A good scheduled maintenance program will include an annual sampling. We team up with the Trane service team to provide this service, as well as personal recommendations and suggestions for action, if necessary. We want to minimize your repair costs and prevent any potential downtime.

The Trane Chemical Laboratory also has quick turnaround on your lab results, which can be vital when there are potential wear concerns. The typical turnaround type for analyzing the sample is 48 hours or less. If there is a problem, we want you to understand the severity of the concern and be able to address it as quickly as possible.

The results of the analysis, along with comments and recommendations, are posted securely on Trane.com, accessible only with a password and an account identification code. Because of this unique feature, service technicians can access the analysis information, including the year-over-year trended information, on the job site, if needed.

The Trane Chemical Laboratory can also perform an analysis of your absorption chiller solution and refrigerant. Trust the Trane Chemical Laboratory with all of your analysis needs.

For more information, contact the [Trane Chemical Laboratory](#) (1-877-632-9192) or your local Trane office.



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