

Refrigerant and Lubricant Testing and Analysis



As a leader in HVACR equipment testing, Intertek provides refrigerant and lubricant testing for companies pursuing improvements in energy efficiency, downtime reduction, and more.

Whether you need refrigerant testing, lubricant testing, chemical compatibility testing or HVACR equipment safety/performance testing, Intertek delivers the solutions that are most efficient, cost-effective and the fastest time to market for your product.

Intertek is the world's largest independent HVACR testing company, providing manufacturers with local and regional testing centers through a network of labs across the globe.

A single solution for HVACR testing

Intertek has the expertise, resources and global reach to support its customers through its network of more than 1,000 laboratories and offices and over 36,000 people in over 100 countries around the world.



Refrigerant Testing

Refrigerant analysis is an extremely valuable, money-saving tool for your business. The information you obtain from a chemical analysis can help your company in a number of ways:

- Improve Energy Efficiency
- Reduce Downtime
- Increase System Life
- Lower Maintenance Costs
- Troubleshoot System Problems
- Verify Quality of Inventory

Determining the purity of recovered, recycled and reclaimed refrigerants is vital. Alternative refrigerants can be incompatible with old system components and used refrigerants are more likely to be contaminated. These contaminants can be incompatible with compressor metals, gaskets, seals or other system components, thus reducing the overall energy efficiency of the unit, and increasing the risk of system damage.

Reducing warranty claims will increase your profitability. Refrigerants of unknown purity can lead to a host of problems, including high head pressures, acid formation, capillary restrictions, oil migration and bearing failure. Documenting the integrity of your system fluid can help you eliminate costly warranty claims.

Our laboratory can identify these contaminants *before* they lead to system failure. Working with Intertek is easy; we are the one-stop-shop for all your HVACR testing needs.

Intertek's refrigerant testing services meet all analytical provisions mandated in Section 608 of the Clean Air Act. Our laboratory tests to the current version of the ARI-700 standard, the Industry Recycling Guideline (IRG-2) as well as several military and client specifications.

We are accredited by the American Association for Laboratory Accreditation (A2LA) as meeting the stringent requirements of ISO/IEC Guide 25, General Requirements for the Competence of Calibration and Testing. This standard far exceeds the requirements of ISO 9002.

Lubricant Testing

Lubricant analysis can peer inside a compressor and spot a developing problem. Changes in the operation of a compressor are reflected in the properties and makeup of its lubricating oil. Scheduled analysis of lubricants identifies problems before they cost you money. The chance of compressor burnout, system failures, and unscheduled maintenance can be greatly reduced by a combination of scheduled analysis and regular tear down inspections.

Our laboratory offers an array of lubricant testing for preventive maintenance and retrofits.

Wear Metals	ASTM D 5185
Moisture	ASTM D 6304
Total Acid Number	ASTM D 974
Viscosity at 40°C	ASTM 445