



PROTECT CRITICAL INFRASTRUCTURE DATA CENTRE COOLING WATER & GLYCOL ANALYSIS

RELIABLE DATA. INFORMED DECISIONS. MAXIMUM UPTIME.

Data centres rely on precision cooling to prevent downtime and protect assets worth millions of dollars. Specialized laboratory testing from Industrial Inspection & Analysis (IIA) provides the insights you need to maintain system efficiency, prevent corrosion, and extend equipment life.

IIA's ISO-accredited labs in Canada and the U.S. provide comprehensive, ASTM-compliant fluid testing and analysis to monitor the health of critical equipment.



PROTECT EQUIPMENT

Detect issues early and prevent costly failures



MAXIMIZE UPTIME

Proactive maintenance reduces unplanned downtime



OPTIMIZE PERFORMANCE

Ensure cooling systems run at peak efficiency

WHY PARTNER WITH IIA?

- **DATA CENTRE EXPERTISE:** Purpose-built testing tailored to critical cooling water and glycol systems
- **ACCURATE & RELIABLE RESULTS:** State-of-the-art instrumentation and strict QA/QC protocols
- **FAST TURNAROUND:** Quick, actionable results to support proactive maintenance and decision making
- **EXPERT SUPPORT:** Technical guidance from experienced analysts who understand your systems
- **CUSTOM REPORTING:** Clear, easy-to-read reports with trends, alerts, and actionable recommendations

When you partner with IIA, you'll gain confidence in the safety, reliability, and compliance of your data center operations.

**WE ALSO PROVIDE DIESEL FUEL ANALYSIS FOR BACKUP
GENERATORS AND TESTING OF OTHER EQUIPMENT FLUIDS.**

Engine Oil • Hydraulic Oil • Gear Oil • And More



COMPREHENSIVE DATA CENTRE COOLING ANALYSIS

We offer full-spectrum testing to monitor water chemistry, contamination, corrosion potential, and system health.

- pH
- Electrical Conductivity
- Turbidity
- Glycol Concentration
- Reserve Alkalinity
- Total Bacteria
- Sulfate
- Chloride + Bromide
- Nitrite
- Nitrate
- Total Calcium
- Total Magnesium
- Total Manganese
- Total Iron
- Filtered Iron
- Total Copper
- Filtered Copper
- Silicon
- Total Zinc
- Total Boron
- Total Chromium
- Total Molybdenum
- Total Nickel
- Total Aluminum
- Total Metals (Cu, Fe, Zn, Al, Ni, Mo, Cr, Mn, B, Pb, Ca, Mg)
- Total Hardness
- Tolyltriazole
- Glycolate
- Acetate
- Formate
- Particulates
- EDS analysis



IIA'S TURNKEY SOLUTION — WE HANDLE EVERYTHING

From sample collection to expert reporting, we handle everything so you can focus on what matters most — your uptime.

1 SAMPLE COLLECTION

We provide pre-labeled bottles and simple sampling instructions.

2 LAB ANALYSIS

Samples are analyzed in our ISO 17025-accredited laboratories.

3 RECOMMENDATIONS

We offer clear maintenance recommendations to protect your assets.

4 SAMPLE LOGISTICS

We manage shipping and chain-of-custody from start to finish.

5 DATA & REPORTING

Our detailed reports feature trends, alerts, and expert interpretation.

6 PEACE OF MIND

Reliable performance. Maximum uptime. Lower total cost.



BENEFITS OF ROUTINE FLUID TESTING

Fluid testing is a cost-effective strategy to increase reliability and sustainability, while reducing costs and risks. Routine fluid analysis:

- Minimizes Downtime
- Reduces Costs
- Prevents Equipment Damage
- Enables Predictive Maintenance
- Reduces Safety Hazards
- Supports Compliance
- Reduces Environmental Impact

ISO 17025 ACCREDITED LABORATORY



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