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An Inside Peek

Coolant Analysis

With our new GC's, we are now capable of performing various analyses on Coolants!

Read on to learn more.



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Analytic News

A Full-Service Analytical and Formulation Laboratory



Our full-service Laboratory is ISO/IEC 17025:2017 accredited as of February 2021! We will be expanding on this certification in the upcoming year.

With our team's combined 40+ years in the analytical field and our wide array of instrumentation, we have the capability to work out a solution to best fit your needs.

Coolants

Uses

Coolants are used in order to protect engines from overheating. It is also a lubricant to the moving parts it comes into contact with.

Why it is Important to Analyze

It's important to regularly test coolants because any contaminations can cause cooling system failure which ultimately can lead to engine failure (an expensive and avoidable problem.) Some things coolants should be analyzed for include the correct glycol concentration, pH levels, and the presence of any contaminants in order to keep your engines running smoothly.

We are currently offering several packages for coolant analysis, as well as individual tests. Give us a call for further information!

Analysis Methods We Offer

Acid and Esters by Titration by ASTM D7736

Ash Content by ASTM D1119

Anions by Ion Chromatography by ASTM D5827

Boiling Point of Engine Coolant by ASTM D1120

Color by Cobalt by ASTM D1209

Denatonium Benzoate (DNB) by ASTM D7304

Distillation Range of VOC by ASTM D1078

Extended Life Coolant Components (Standard)

Benzoate, 2-Ethylhexanoic acid, Sebacic acid, MBT, TTZ, BZT

Extended Life Coolant Components (Broad)

Benzoate, 2-Ethylhexanoic acid, Sebacic acid, MBT, TTZ, BZT, Azelaic acid, Dodecanedioic acid, Pimelic acid, Suberic acid, Undecanedioic acid

Foaming of Coolants at Room Temperature by ASTM D4921

Foaming Tendencies of Coolants by ASTM D1881

For Engine Grade Glycerin by ASTM D7640

For Glycols by ASTM E1177

Freeze Point of Engine Coolants by ASTM D1177

Freeze Point by Refractometer by ASTM D3321

Glycerin by Titration by ASTM D7637

Group Test by Determination & Quantification of Glycols by GC

Hardness in Water by ICP by ASTM D1126

Metals by ICP by ASTM D6130

Particulate and Dissolved Matter (Hardness by Titration) by ASTM D1126

pH of Engine Coolants by ASTM D1287

pH of Water by ASTM D1293

Relative Density – Hydrometer by ASTM D1122

Reserve Alkalinity of Coolants by ASTM D1121

Water Content in Antifreeze by Karl Fischer by ASTM D1123

[Analytic, LLC is an ISO/IEC 17025:2017 accredited laboratory.](#)

