

COOLANT ANALYSIS

Techenomics laboratories are able to analyse water based fluids such as engine coolant. Quality of the coolant can seriously affect engine performance.

As the Automotive Industry grows larger day by day, engine designs are keep on changing making the cooling systems work harder than ever before to protect against corrosion and buildup of contamination. Coolant testing at Techenomics can help to identify the condition of the coolant to ensure proper cooling operation.

Studies have shown that a majority of the engine failures are due to issues within the coolant system. Eventhough coolants are used to prevent problems like pitting, cavitations, corrosion, electrolysis and erosion; improper maintenance of the fluid can create a negative impact on the engine system. Coolant testing can identify these problems and determine the coolant is providing adequate protection. By analyzing the coolant, Techenomics can assist in identifying the quality of the coolant in order to maintain an effective maintenance schedule.

Coolant Test Package

TESTS	TECHNIQUE	STANDARD
Wear metals & additives (Pb, Fe, Cr, Al, Ni, Cu, Sn, Si, Na, B, Mg, Ca, P, Zn)	Rotating Disk Electrode Spectrometer	ASTM D6595
Ethylene Glycol %/Freeze point (°c)	Refractometer	N/A
Molybdate	Test Strips	N/A
pH	Test Strips/pH Meter	ASTM D1287
Nitrate	Test Strips	N/A
Colour	Manual	N/A
Appearance	Manual	N/A
Odour	Manual	N/A
Reserve Alkalinity	Titration	ASTM D1121
Freeze Point	Refractometer	ASTM D3321
Density	Hydrometer	ASTM D1122
Boiling Point	Heating	ASTM D1120

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Blue Oceans Software



Techenomics specialises in providing oil analysis services, and specialty lubricants to the mining industry.



By implementing a regular magnetic plug inspection program you will have a very low cost, effective and immediate early warning condition monitoring tool.



Techenomics filtration services can assist companies with the design and installation of a range of fuel and oil filtration solutions.