



S.O.SSM
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D'ANALYSE
DES FLUIDES

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Your Fluid
Analysis
Laboratory
(Quality System
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Excellence*

Technical report

Fluid and glycol analysis using gas chromatography

In constantly striving to offer Service with Excellence, Hewitt equipment Ltd's SOS laboratory is proud to announce a new type of fuel and glycol analysis found in engine oil.

Gas Phase Chromatography (GPC) analysis is of course one of the most advanced techniques used to separate and analyse liquid contaminants within fluids. The main goal of this newly implanted technology is to identify and quantify fuel and glycol in fluids with greater precision. This represents a net advantage compared to other common analysis methods.

The dilution of engine fluids by fuel is caused by worn piston rings and cylinder liners, defective fuel injection, combustion residue or leaks on the fuel lines. Once one of these problems occur, a drop in oil viscosity is quickly noted, oil additives are diluted, oil film capacity is lost and premature oil oxydation occurs, generating immediate wear of components due to friction.

engine fluid contamination by glycol is often caused by failed seals, electrochemical or cavitation erosion, corrosion or a damaged radiator. The presence of glycol has devastating effects on oil by transforming it into an emulsion and then into a gel. It forms very corrosive glycolic acids, creates notable restrictions in oil flow and causes the oil filter to fail.

Both contaminants are reported in a percentage (v/v).

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