



Fluids Analysis

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Coolant Analysis Packages

Basic Coolant Condition

Part No.	Description	Tests Included	Method	Volume
CA1	<p>Coolant Analysis - Level 1</p> <p>Basic coolant condition designed to evaluate the basic maintenance aspects of the coolant for water-cooled engines and other water-cooled equipment.</p> <p>Recommended for routine coolant sampling. Recommended for conventional coolants.</p> <p>Allow 24 hours for sample processing.</p>	<p>Glycol Percent</p> <p>Freeze Point</p> <p>Boil Point</p> <p>pH Level</p> <p>Conductivity</p> <p>Additives Check: Nitrites (NO₂) by titration, Molybdenum by test strip</p> <p>Total Ferrous Debris</p> <p>Oil Contamination</p> <p>Color</p> <p>Odor</p> <p>Precipitate</p> <p>Foam</p>	<p>ASTM D3321</p> <p>ASTM D3321</p> <p>SOP 706</p> <p>SOP 728</p> <p>SOP 696</p> <p>SOP 701 & 700</p> <p>SOP 725</p> <p>SOP 698</p> <p>SOP 698</p> <p>SOP 698</p> <p>SOP 698</p> <p>SOP 698</p> <p>SOP 698</p>	120mL

Advanced Coolant and Cooling System Condition

Part No.	Description	Tests Included	Method	Volume
CA2	<p>Coolant Analysis - Level 2</p> <p>Advanced coolant/cooling system condition designed to evaluate the condition of the coolant and the cooling system for water-cooled engines and power generation units.</p> <p>Recommended for 1000 hour or annual sampling intervals. Recommended for (ELC) extended life coolants.</p> <p>Allow 10 to 14 business days for sample processing.</p> <p># Outsourced to a Caterpillar facility.</p>	<p>#Glycol Percent</p> <p>#Freeze Point</p> <p>#Boil Point</p> <p>#pH Level</p> <p>#Conductivity</p> <p>Total Ferrous Debris</p> <p>#Oil Contamination</p> <p>#Color</p> <p>#Odor</p> <p>#Precipitate</p> <p>#Foam</p> <p>#ICP Elements**: Fe, Al, Cu, Pb, Sn, Zn, Ca, Mg, Si, B, Mo, Na, K, P</p> <p>** Molybdate, silicates (SiO₃), borates (BO₃), phosphate, calcium chloride (CaCO₃), magnesium chloride (MgCO₂), & total hardness calculated from ICP. Does not test for formate.</p> <p>#Compounds: chloride, glycolate, sulfate, nitrite (NO₂), nitrate (NO₃)</p> <p>#Compounds: sebacates & tolyltriazole</p>	<p>Cat Method</p> <p>ASTM D3321</p> <p>Cat Method</p> <p>ASTM D1287</p> <p>Cat Method</p> <p>SOP 725</p> <p>Cat Method</p> <p>Cat Method</p> <p>Cat Method</p> <p>Cat Method</p> <p>Cat Method</p> <p>ICP Method</p> <p>IC Method</p> <p>HPLC Method</p>	120mL



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