

CONSTRUCTION EQUIPMENT VOLVO L45G 220049 - COOLANT



Sample No: VCP336010

Oil Type: CONVENTIONAL COOLANT

Job No:

CVMDLE	NFORMATION				
_	NF UKMA HUN				_
Sample Number		VCP336010			
Sample Date		02 Sep 2023			
Machine Hours		1675			
Sample Status		ABNORMAL			
COOLANT	CONDITION				
Boron	ppm	14			
Phosphorus	ppm	17			
Sodium	ppm	■3378			
Potassium	ppm	922			
Silicon	ppm	32			
рН	Scale 0-14	7.06			
Reserve Alkalinity	Scale 0-20	2.3			
Molybdenum	ppm	37			
Nitrites	ppm	A 280			
Percentage Glycol	%	44.5			
Freezing Point	°C	-21			
CONTAMI	NATION				
Magnesium			_	<u> </u>	
	ppm	4			
Calcium	ppm	16			
Calcium Coolant Appearance	ppm	□ 16 ▲ Cloudy			
Calcium Coolant Appearance Coolant Color	ppm	□ 16 ▲ Cloudy Other			
Calcium Coolant Appearance Coolant Color Sand/Dirt	ppm	■16 Cloudy Other ■NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris	ppm scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate	ppm scalar scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris	ppm scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate Silt	ppm scalar scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate	scalar scalar scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate Silt	scalar scalar scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate Silt CORROSIO	scalar scalar scalar scalar	□ 16 ▲ Cloudy Other □ NONE □ NONE □ NONE □ LIGHT			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate Silt CORROSIO	scalar scalar scalar scalar	□ 16			
Calcium Coolant Appearance Coolant Color Sand/Dirt Debris Precipitate Silt CORROSIO Iron Aluminum	scalar scalar scalar scalar	□ 16			



STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE CALGARY, AB CA T2C 4R7 Contact: MAH COX MCOX@STRONGCO.COM T: (403)216-1010 F: (403)216-1016

Diagnosis

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. We recommend an early resample to monitor this condition. Aluminum and iron ppm levels are abnormal. The iron level is high indicating rust in the system which clogs the cooling system. The high metal levels indicate corrosion in the system. There is no indication of any contamination in the component(unconfirmed). The reserve alkalinity of this fluid is lower than acceptable. The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The low nitrite level indicates reduced cavitation protection which leads to corrosion and ammonia formation. The pH is low which causes rust formation.

Depot:VOLVO3909Unique No:5643410Signed:Bill QuesnelReport Date:18 Sep 2023



CONSTRUCTION EQUIPMENT





