LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH

Oil Type: HYBRID (HOAT) COOLANT



SAMPLE INFORMATION

Sample Number	LH	 	
Sample Date	14 Nov 2023	 	
Machine Hours	0	 	
Sample Status	ABNORMAL	 	



COOLANT CONDITION

COLANI CONDITION						
Boron	ppm	420				
Phosphorus	ppm	29				
Sodium	ppm	3320				
Potassium	ppm	324				
Silicon	ppm	26				
рН	Scale 0-14	8.15				
Reserve Alkalinity	Scale 0-20	4.2				
Molybdenum	ppm	73				
Nitrites	ppm	440				
Percentage Glycol	%	27.0				
Freezing Point	°C	<u> </u>				



CONTAMINATION

Magnesium	ppm	12			
Calcium	ppm	23			
Coolant Appearance		Clear			
Coolant Color		Grn/Yellow			
Sand/Dirt	scalar	NONE			
Debris	scalar	○ NONE			
Precipitate	scalar	NONE			
Silt	scalar	NONE			



CORROSION

Report Id: LIEMIS [WCAMIS] 02596703 (Generated: 11/16/2023 05:12:22) Rev: 1

Iron	ppm	0 0	 	
Aluminum	ppm	2	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	0	 	





LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8

Contact: Joseph Rodgers joseph.rodgers@liebherr.com

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Diagnosis

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol. Recommend that you ensure the same technology coolant is being used for make-up. Resample at the next service interval to monitor.All metal levels are normal indicating no corrosion in the cooling system. There is no indication of any contamination in the coolant. The glycol level is low which leads to an increased rate of liner pitting and may be inadequate for freeze protection. The specific gravity is lower than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Depot: LIEMIS
Unique No: 5681783
Signed: Kevin Marson
Report Date: 16 Nov 2023

CONSTRUCTION EQUIPMENT





GRAPHS

