# **CONSTRUCTION EQUIPMENT**



Sample Number	LH0265161	LH0238066	 
Sample Date	26 Jun 2024	27 Jun 2023	 
Machine Hours	25320	23538	 
Oil Hours	0	0	 
Oil Changed	Changed	Changed	 
Sample Status	NORMAL	NORMAL	 
Oil Condition			

Oil Co	ndition			
Visc @ 100°C	cSt	<b>13.4</b>	O 14.5	 
Oxidation (PA)	%	90	74	 

Conto	Contamination					
Water	%	NEG	NEG			
Soot %	%	<b>0.4</b>	0.2			
Nitration (PA)	%	95	72			
Sulfation (PA)	%	58	57			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	<1.0			
Silicon	ppm	<b>2</b>	<b>6</b>			
Sodium	ppm	<b>2</b>	<b>3</b>			
Potassium	ppm	<b>2</b>	O <1			

<b>O</b> Was				
Wear	r Metals			
Iron	ppm	<b>8</b>	O 12	 
Copper	ppm	<b>5</b>	O 2	 
Lead	ppm	<b>0</b>	O <1	 
Tin	ppm	<b>0</b> <1	O 0	 
Aluminum	ppm	<b>1</b>	<b>1</b>	 
Chromium	ppm	<b>0</b> <1	O <1	 
Molybdenum	ppm	<b>47</b>	<b>6</b> 3	 
Nickel	ppm	<b>0</b>	O 0	 
Titanium	ppm	<b>0</b>	O 0	 
Silver	ppm	<b>0</b>	O <1	 
Manganese	ppm	<b>()</b> <1	O <1	 
Vanadium	ppm	0	0	 

Additives						
Calcium	ppm	<b>1365</b>	O 1115			
Magnesium	ppm	<b>904</b>	O 1066			
Zinc	ppm	<b>905</b>	O 1285			
Phosphorus	ppm	<b>757</b>	O 1111			
Barium	ppm	<b>()</b> <1	O 0			
Boron	ppm	<b>80</b>	<b>5</b>			



### Liebherr-Canada Ltd.

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## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEFTM Unique No: 5802920 Signed: Kevin Marson Report Date: 09 Jul 2024

**CONSTRUCTION EQUIPMENT** 





# **Graphs**

