### LIEBHERR

**CONSTRUCTION EQUIPMENT** 

#### LIEBHERR R920 051529-1705 - Hydraulic System

Sample No: LH0225026
Oil Type: {unknown}

SAMPLE INFORMATION							
Sample Number	LH0225026	LH0269740					
Sample Date	24 Jan 2024	21 Aug 2023					
Machine Hours	3129	2657					
Oil Hours	0	0					
Oil Changed	Not Changd	Not Changd					
Sample Status	ABNORMAL	NORMAL					

## OIL CONDITION Visc @ 40°C cSt ● 42.0 ● 42.2 -- --

CONTAMINATION					
Water	%	NEG	NEG		
Particles >4µm		<b>61699</b>	O 1154		
Particles >6μm		<b>8896</b>	O 276		
Particles >14µm		<b>39</b>	O 24		
ISO 4406:1999 (c)		23/20/12	17/15/12		
Silicon	ppm	<b>9</b>	<b>9</b>		
Sodium	ppm	<b>2</b>	O 2		
Potassium	ppm	<b>2</b>	<b>1</b>		

(O) WEA				
WEA	R METAL	.S		
Iron	ppm	<b>12</b>	<b>1</b> 0	 
Copper	ppm	<b>4</b>	<b>O</b> 4	 
Lead	ppm	<b>1</b>	O <1	 
Tin	ppm	<b>0</b>	0	 
Aluminum	ppm	<b>2</b>	O 1	 
Chromium	ppm	<b>○</b> <1	O <1	 
Molybdenum	ppm	2	2	 
Nickel	ppm	<b>0</b>	O 0	 
Titanium	ppm	0	0	 
Silver	ppm	<1	0	 
Manganese	ppm	0	<1	 
Vanadium	ppm	0	0	 

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ADD	ITIVES			
Calcium	ppm	1295	1279	 
Magnesium	ppm	5	5	 
Zinc	ppm	700	714	 
Phosphorus	ppm	600	634	 
Barium	ppm	0	0	 
Boron	ppm	<1	<1	 



#### SHAMROCK EARTHWORKS LTD 351 EVERSYDE WAY SW CALGARY, AB CA T2Y 4R2

Contact: Service Manager

T: F:

#### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: SHA351CAL
Unique No: 5722548
Signed: Wes Davis
Report Date: 06 Feb 2024

# CONSTRUCTION EQUIPMENT





#### **GRAPHS**

