# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH50 1216-131191 - Hydraulic System

Sample No: LH0227818

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLEINFORMATION					
Sample Number	LH0227818	LH0227806			
Sample Date	12 Oct 2023	08 Feb 2023			
Machine Hours	1905	1117			
Oil Hours	0	0			
Oil Changed	Not Changd	Not Changd			
Sample Status	NORMAL	NORMAL			

OIL CONDITION						
Visc @ 40°C	cSt	<b>44.3</b>	<b>44.8</b>			
Acid Number (AN)	mg KOH/g	<b>0.96</b>	0.99			
CONTAMINATION						
Particles >4µm		<b>8794</b>	O 1326			
Particles >6µm		<b>1975</b>	O 75			
Particles >14μm		<b>110</b>	<b>6</b>			
ISO 4406:1999 (c)		20/18/14	18/13/10			
Silicon	ppm	<b>1</b>	O 2			
Sodium	ppm	<b>0</b> 1	O 1			
Potassium	ppm	<b>0</b> 0	0			

₩EA	R METALS			
Iron	ppm	<b>14</b>	O 14	 
Copper	ppm	<b>2</b>	0 1	 
Lead	ppm	<b>0</b>	O <1	 
Tin	ppm	<b>0</b>	0	 
Aluminum	ppm	<b>○</b> <1	O <1	 
Chromium	ppm	<b>0</b> <1	O <1	 
Molybdenum	ppm	<b>0</b>	0	 
Nickel	ppm	<b>0</b>	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>0</b> <1	O <1	 
Vanadium	ppm	0	0	 

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ADDITIVES						
Calcium	ppm	<b>946</b>	O 1115			
Magnesium	ppm	<b>19</b>	<b>9</b>			
Zinc	ppm	<b>580</b>	O 616			
Phosphorus	ppm	<b>507</b>	O 540			
Barium	ppm	<b>0</b>	O 0			
Boron	ppm	<b>0</b>	0			



#### KOPPERS RECOVERY RESOURCES

17961 US HIGHWAY 41 L`ANSE, MI

L`ANSE, M US 49946

Contact: Service Manager

T: F:

#### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: KOPLAN
Unique No: 10701463
Signed: Wes Davis
Report Date: 20 Oct 2023

# CONSTRUCTION EQUIPMENT





#### **GRAPHS**

