# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## LIEBHERR LH60M 152978 - Hydraulic System

Sample No: LH0288201

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

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Sample Information					
Sample Number	LH0288201	LH0224300			
Sample Date	09 Apr 2024	15 Feb 2024			
Machine Hours	1107	556			
Oil Hours	0	0			
Oil Changed	Not Changd	Not Changd			
Sample Status	NORMAL	NORMAL			
Oil Condition	n				
\" 0 4000 0:	0	0 15 5			

Conta	mination			
Water	%	<b>0.022</b>	NEG	 
Particles >4µm		<b>14504</b>	O 5114	 
Particles >6µm		<b>4219</b>	719	 
Particles >14µm		<b>526</b>	O 29	 
ISO 4406:1999 (c)		21/19/16	20/17/12	 
Silicon	ppm	<b>1</b>	O 2	 
Sodium	ppm	<b>2</b>	<b>1</b>	 
Potassium	nnm	0 <1	02	 

<b>(0)</b>				
Wea	r Metals			
Iron	ppm	<b>13</b>	O 13	 
-		_		
Copper	ppm	<b>2</b>	0 1	 
Lead	ppm	<b>0</b>	O 7	 
Tin	ppm	<b>0</b>	O 0	 
Aluminum	ppm	<b>0</b> <1	<b>1</b>	 
Chromium	ppm	<b>0</b> <1	0 <1	 
Molybdenum	ppm	<b>0</b>	O 0	 
Nickel	ppm	<b>0</b>	O 0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>○</b> <1	0	 
Vanadium	ppm	0	0	 

• 4.144	PP	~	· ·	
Addi	itives			
Calcium	ppm	1174	1203	 
Magnesium	ppm	<b>7</b>	O 7	 
Zinc	ppm	<b>727</b>	O 731	 
Phosphorus	ppm	<b>630</b>	O 665	 
Barium	ppm	<b>0</b>	O 0	 
Boron	ppm	<b>○</b> <1	O 0	 



#### LIEBHERR CANADA LTD.

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#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.
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 water content is negligible. The system and fluid cleanliness is acceptable.
NOTE: An increase in the particle count is noted. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
Unique No: 5773951
Signed: Kevin Marson
Report Date: 05 May 2024

Contact/Location: Steve Lehto - LIEMIS

# CONSTRUCTION EQUIPMENT





### **Graphs**

