# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## LIEBHERR LH50M 138820-1216 - Transmission (Manual)

Sample No: LH

Oil Type: TDTO FLUID SAE 10W

SAMPLE INFORMATION							
Sample Number	LH	LH0260711	LH				
Sample Date	11 Dec 2023	26 May 2023	26 Mar 2023				
Machine Hours	2140	950	524				
Oil Hours	0	0	0				
Oil Changed	N/A	N/A	N/A				
Sample Status	NORMAL	ATTENTION	NORMAL				

- Cup.o	Otatao			 	
0	OIL CO	NDITION			
Visc @	40°C	cSt	<b>53.6</b>	<b>50.0</b>	
_					

CON	TAMINAT	ON			
Water	%	NEG	NEG	NEG	
Silicon	ppm	<b>5</b>	<b>4</b>	<b>4</b>	
Sodium	ppm	<b>16</b>	O 26	O 42	
Potassium	ppm	<b>0</b> <1	0 2	<b>3</b>	

Iron   ppm   0   19   0   11   0   20   0   0   0   0   0     Lead   ppm   0   0   0   0   0   0   0   0     Line   ppm   0   0   0   0   0   0   0     Molybdenum   ppm   0   0   0   0   0   0   0     Nickel   ppm   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0   0     Titanium   ppm   0   0   0   0   0   0   0   0   0						
Copper         ppm         11         15            Lead         ppm         <1         <1            Tin         ppm         0         <1            Aluminum         ppm         2         2         3            Chromium         ppm         0         0         <1            Molybdenum         ppm         44         24         <1            Nickel         ppm         <1         0         <1            Titanium         ppm         0         <1         <1	WEA	AR METAL	.S			
Lead         ppm         O <1         O <1            Tin         ppm         O 0         O <1            Aluminum         ppm         O 2         O 2         O 3            Chromium         ppm         O 0         O 0         O <1            Molybdenum         ppm         O 4         O 0         O <1            Nickel         ppm         O <1         O <1            Titanium         ppm         O <1         O <1	Iron	ppm	<b>19</b>	<b>1</b> 1	<b>2</b> 0	
Tin         ppm         0         <1	Copper	ppm	<b>11</b>	O 11	<b>1</b> 5	
Aluminum         ppm         2         2         3            Chromium         ppm         0         0         <1	Lead	ppm	<b>()</b> <1	O <1	<1	
Chromium         ppm         0         0         <1            Molybdenum         ppm         44         24         <1	Tin	ppm	<b>0</b>	O <1	O <1	
Molybdenum         ppm         44         24         <1            Nickel         ppm         <1         0         <1            Titanium         ppm         0         <1         <1	Aluminum	ppm	<b>2</b>	O 2	<b>3</b>	
Nickel         ppm         O <1            Titanium         ppm         0         <1	Chromium	ppm	<b>0</b>	O 0	O <1	
Titanium         ppm         0         <1         <1	Molybdenum	ppm	44	O 24	<1	
	Nickel	ppm	<b>0</b> <1	O 0	O <1	
	Titanium	ppm	0	<1	<1	
Silver ppm () <1 () 0	Silver	ppm	<b></b> <1	O 0	<b>0</b>	
Manganese ppm	Manganese	ppm	<b>4</b>	<b>6</b>	<b>9</b>	
Vanadium ppm 0 <1 <1	Vanadium	ppm	0	<1	<1	

vanadium	ppm	U	<1	< 1	
ADDI	TIVES				
Calcium	ppm	<b>1738</b>	○ 2329	○ 3567	
Magnesium	ppm	749	O 449	0 8	
Zinc	ppm	<b>1207</b>	O 1145	O 1143	
Phosphorus	ppm	<b>1071</b>	O 1156	O 1175	
Barium	ppm	<b>()</b> <1	O <1	O 1	
Boron	ppm	<b>29</b>	O 28	<b>3</b>	



D.P. Metal Inc. 373A Chemin Grande-Ligne Saint-Urbain Premier, QC CA J0S 1Y0 Contact: Service .

T: (450)427-0506 F:

#### Diagnosis

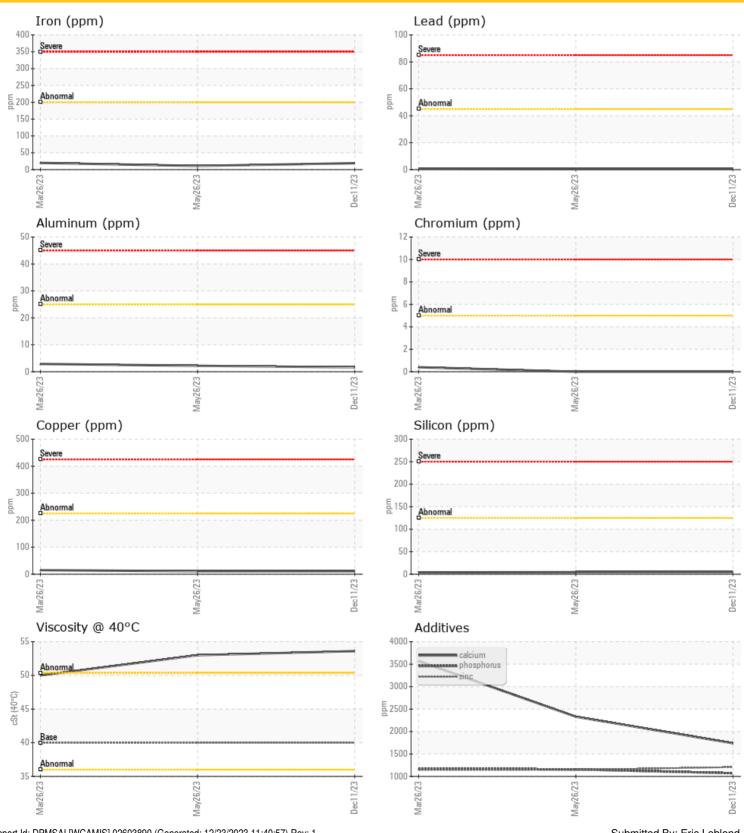
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot:DPMSAIUnique No:5696975Signed:Kevin MarsonReport Date:18 Dec 2023





### **GRAPHS**



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Submitted By: Eric Leblond