# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH22M 110435-1250 - Swing Drive

Sample No: LH0283996

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAMPLEINFORMATION					
Sample Number	LH0283996	LH0260473	LH0234095	LH0238723	
Sample Date	31 Jan 2024	14 Aug 2023	07 Mar 2023	20 Jan 2023	
Machine Hours	12137	11129	10153	9792	
Oil Hours	0	0	0	0	
Oil Changed	Changed	Changed	Changed	Changed	
Sample Status	ABNORMAL	NORMAL	SEVERE	SEVERE	
	-				



CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	<b>5</b>	<b>7</b>	<b>3</b> 1	<b>4</b> 0	
Sodium	ppm	<b>0</b> <1	<b>1</b>	<b>3</b>	<b>3</b>	
Potassium	ppm	<b>1</b>	O <1	O 1	O 1	

WEAR METALS					
PQ		<b>0</b> 0	O 0	<b>3</b>	<b>8</b>
Iron	ppm	<b>444</b>	○ 691	838	<b>786</b>
Copper	ppm	<b>32</b>	O 67	<b>140</b>	<b>158</b>
Lead	ppm	<b>0</b> <1	O 2	<b>4</b>	O 5
Tin	ppm	<b>2</b>	<b>3</b>	<b>1</b> 1	<b>1</b> 3
Aluminum	ppm	<b>○</b> <1	0 1	<b>4</b>	O 5
Chromium	ppm	<b>4</b>	<b>6</b>	08	<b>7</b>
Molybdenum	ppm	<b>0</b>	O <1	O <1	O <1
Nickel	ppm	<1	0	O <1	O <1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<b>2</b>	○ 5	<b>7</b>	<b>6</b>
Vanadium	ppm	0	0	0	<1

ADDITIVES						
ppm	<b>8</b>	O 17	○ 16	08		
ppm	<b>1</b>	O 1	O <1	O <1		
ppm	<b>17</b>	<b>20</b>	26	○ 30		
ppm	<b>1330</b>	O 1446	<b>1867</b>	2213		
ppm	<b>0</b>	O <1	O <1	<b>3</b>		
ppm	<b>115</b>	O 145	104	8		
	ppm ppm ppm ppm ppm	ppm	ppm	ppm     8     17     16       ppm     1     1     <1       ppm     17     20     26       ppm     1330     1446     1867       ppm     0     <1     <1		



# ECOWASTE INDUSTRIES 4 SPRUCE ST NEW WESTMINSTER, BC CA V3L 5G6 Contact: Service Manager

T: F:

#### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: ECONEW
Unique No: 5722900
Signed: Bill Quesnel
Report Date: 06 Feb 2024

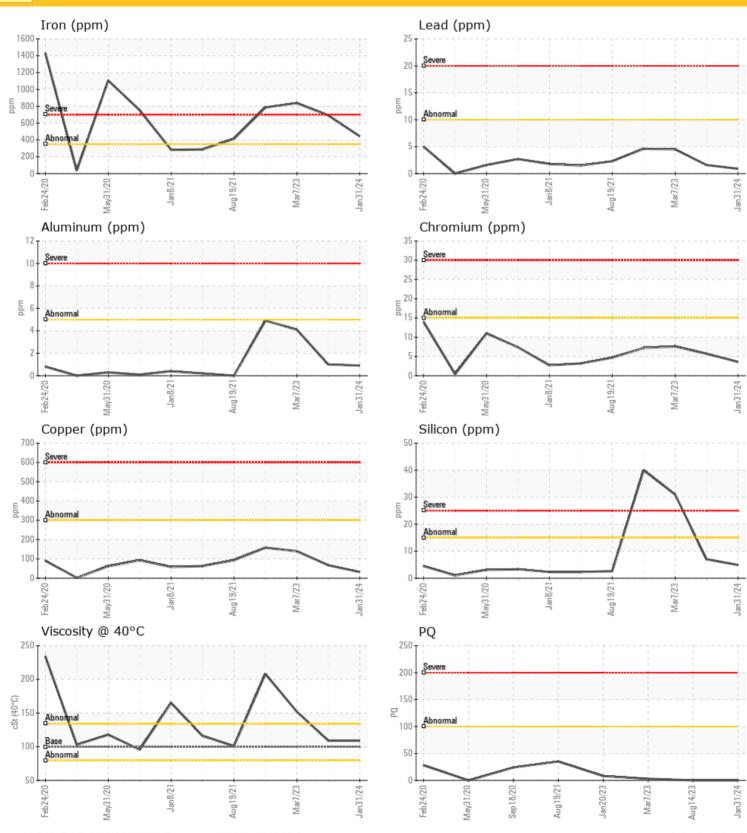
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### **GRAPHS**



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Submitted By: ?