# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

## LIEBHERR LH50M 097459-1216 - Swing Drive

Sample No: LH0277101

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAMPLEIN	FORMATION					
Sample Number	LH0277101	LH0250295	LH0238561	LH0194735		
Sample Date	13 Oct 2023	31 May 2023	24 Oct 2022	29 Oct 2021		
Machine Hours	28718	26834	1000	20093		
Oil Hours	0	0	0	0		
Oil Changed	Changed	Changed	N/A	Changed		
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL		
OIL CONDITION						
Visc @ 40°C cSt	<b>109</b>	95.6	O 103	O 101		
**						
CONTAMINATION						

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Water	%	<b>0.233</b>			
Silicon	ppm	<b>7</b>	O 5	O 2	O 5
Sodium	ppm	<1	O 1	<b>3</b>	O <1
Potassium	ppm	<b>○</b> <1	O <1	O 0	0 1

WEA	R METALS				
PQ		<b>13</b>			O 0
Iron	ppm	<b>2401</b>	<b>1079</b>	<b>237</b>	O 1396
Copper	ppm	<b>86</b>	O 62	<b>14</b>	<b>81</b>
Lead	ppm	<b>3</b>	O 2	O <1	O 5
Tin	ppm	<b>7</b>	<b>5</b>	<b>1</b>	02
Aluminum	ppm	<b>1</b>	O <1	O <1	O <1
Chromium	ppm	<b>22</b>	<b>10</b>	○ 3	<u>15</u>
Molybdenum	ppm	<b>0</b> 1	<b>5</b>	O <1	O <1
Nickel	ppm	<b>2</b>	O 2	O <1	O 2
Titanium	ppm	<b>0</b>	O 0	O 0	O 0
Silver	ppm	<1	0	0	<1
Manganese	ppm	20	08	O 2	O 12
Vanadium	ppm	0	0	0	<1

ADDITIVES					
Calcium	ppm	23	O 62	O 20	O 13
Magnesium	ppm	<b>12</b>	<b>O</b> 57	0 8	<b>4</b>
Zinc	ppm	<b>90</b>	O 103	<b>24</b>	<b>26</b>
Phosphorus	ppm	<b>1249</b>	O 1265	<b>1900</b>	O 1254
Barium	ppm	<b>0</b>	<b>0</b>	<b>0</b>	0
Boron	ppm	<b>243</b>	<b>188</b>	<b>244</b>	<b>175</b>





#### J.D. Irving

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### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: JDITRU
Unique No: 5668219
Signed: Kevin Marson
Report Date: 25 Oct 2023

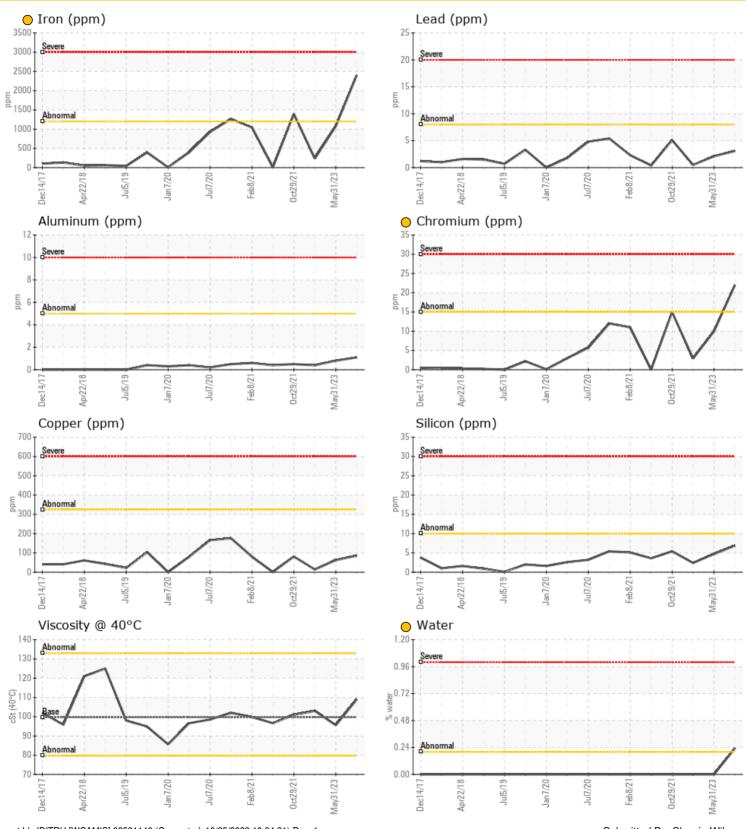
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### **GRAPHS**



Report Id: JDITRU [WCAMIS] 02591140 (Generated: 10/25/2023 10:34:21) Rev: 1

Submitted By: Sherrie Wilson