# LIEBHERR

### **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH50M 097459-1216 - Transmission (Manual)

Sample No: LH0183464

Oil Type: PETRO CANADA DURON HP 15W40

<b>=</b>					
JSAM	<b>PLE INFO</b>	RMATION			
Sample Number		LH0183464	LH0180235	LH	LH0139129
Sample Date		08 Feb 2021	06 Oct 2020	07 Jul 2020	01 Mar 2020
Machine Hours		8850	0	0	13087
Oil Hours		0	0	0	0
Oil Changed		N/A	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
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	ANDITIA				
	ONDITIO				
Visc @ 40°C	cSt	<b>71.1</b>	<del>0</del> 71.3	<b>64.3</b>	<b>S</b> 58.4
aria de la compansión d					
CON'	TAMINA	TION			
Silicon	ppm	O 4	O 4	O 5	O 4
Sodium	ppm	O 2	0 2	0 <1	0 <1
Potassium	ppm	01	0 <1	02	0 <1
	ррпп		0 <1	0 2	0 < 1
<b>WEA</b>					
WEA	R METAL	.S			
Iron	ppm	<b>14</b>	<b>16</b>	<b>1</b> 3	O 21
Copper	ppm	<b>6</b>	0 8	<b>4</b>	<b>6</b>
Lead	ppm	<b>0</b> <1	O <1	O <1	O 0
Tin	ppm	<b>0</b> <1	O <1	O <1	O <1
Aluminum	ppm	<b>2</b>	0 1	O 1	02
Chromium	ppm	<b>()</b> <1	0 <1	0	0<1
Molybdenum	ppm	<b>50</b>	O 39	O 51	O 42
Nickel	ppm	<b>0</b> <1	0 0	O <1	0 0
Titanium	ppm	0	0	0	<1
Silver	ppm	<b>0</b>	0 <1	0 0	O 0
Manganese	ppm	<b>0</b> 1	0 2	0 1	0 2
Vanadium	ppm	0	0	0	0
	PPIII				Ŭ
ADD					
ADD	ITIVES				
Calcium	ppm	<b>991</b>	O 877	O 1230	1498
Magnesium	ppm	<b>797</b>	599	794	554
Zinc	ppm	0 1076	869	O 1157	0 1067
Phosphorus	ppm	0 1113	O 1083	O 1034	973
	170	00	9 .000	9 .00.	0

 $\bigcirc$  <1

 $\bigcirc$  0

 $\bigcirc$  <1



#### J.D. Irving

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Contact: Sheldon Richardson richardson.sheldon@jdirving.com

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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. There is no indication of any contamination in the fluid.
Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Depot:JDITRUUnique No:5174404Signed:Bill QuesnelReport Date:10 Feb 2021

<1</p>

62

ppm

ppm

Barium

Boron

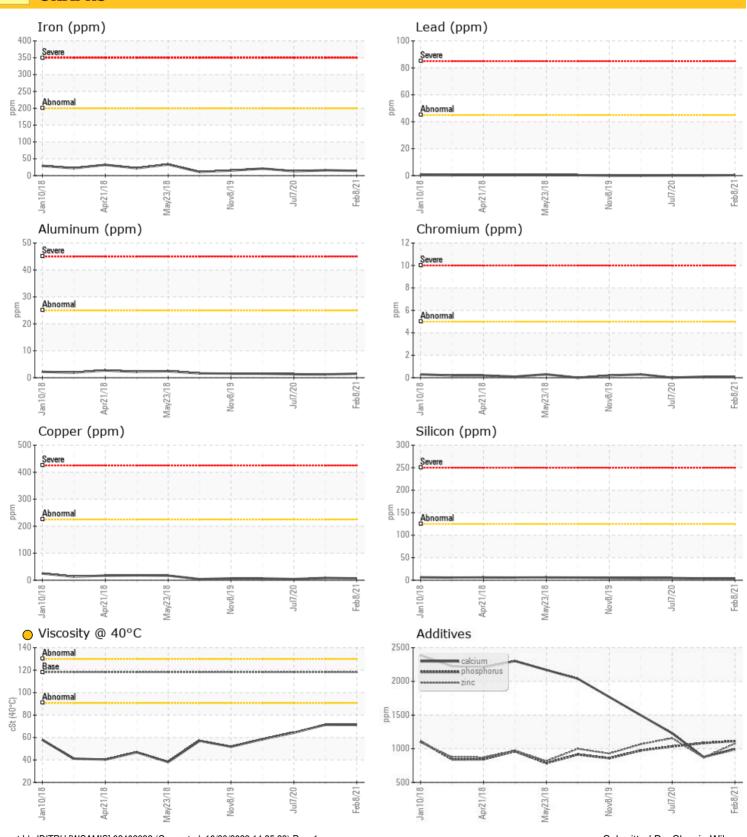
## LIEBHERR

**CONSTRUCTION EQUIPMENT** 





#### **GRAPHS**



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Submitted By: Sherrie Wilson