# LIEBHERR

**CONSTRUCTION EQUIPMENT** 

## [SUBLATOS] LIEBHERR R934 54888 - Right Final Drive

Sample No: LH0225019

Oil Type: GEAR OIL SAE 75W90

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SAMPLI	EINFORMATION				
Sample Number	LH0225019	LH0225120	LH0224984		
Sample Date	21 Jan 2024	29 May 2023	14 Mar 2023		
Machine Hours	1940	971	577		
Oil Hours	0	0	0		
Oil Changed	Changed	Changed	Changed		
Sample Status	ABNORMAL	NORMAL	NORMAL		
OIL CON	IDITION				
Visc @ 40°C cS	St 98.5	O 116	202		

CONTAMINATION						
Water	%	NEG	NEG	NEG		
Silicon	ppm	<b>482</b>	<b>60</b>	<b>9</b> 7		
Sodium	ppm	<b>9</b>	<b>4</b>	0 8		
Potassium	ppm	<b>25</b>	O 3	0 8		

WEA	R METALS	5			
Iron	ppm	<b>983</b>	○ 205	O 419	
Copper	ppm	<b>○</b> <1	O <1	O <1	
Lead	ppm	<b>0</b>	O <1	O 0	
Tin	ppm	<b>0</b>	O 0	O 0	
Aluminum	ppm	<b>84</b>	<b>9</b>	<b>19</b>	
Chromium	ppm	<b>14</b>	O 4	<b>9</b>	
Molybdenum	ppm	<b>0</b>	<b>0</b>	O <1	
Nickel	ppm	<b>4</b>	0 1	O 2	
Titanium	ppm	<b>4</b>	0	O 1	
Silver	ppm	0	<1	0	
Manganese	ppm	<b>9</b>	O 2	<b>5</b>	
Vanadium	ppm	0	0	<1	
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ADDITIVES						
Calcium	ppm	<b>()</b> 151	<b>4</b> 0	<b>3</b> 5		
Magnesium	ppm	35	<b>6</b>	<b>4</b>		
Zinc	ppm	<b>19</b>	<b>1</b> 9	<b>1</b> 9		
Phosphorus	ppm	<b>1248</b>	O 1251	O 1321		
Barium	ppm	<b>1</b>	<b>4</b>	<b>10</b>		
Boron	ppm	<b>255</b>	O 214	<b>5</b>		



#### LIEBHERR CANADA LTD.

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#### Diagnosis

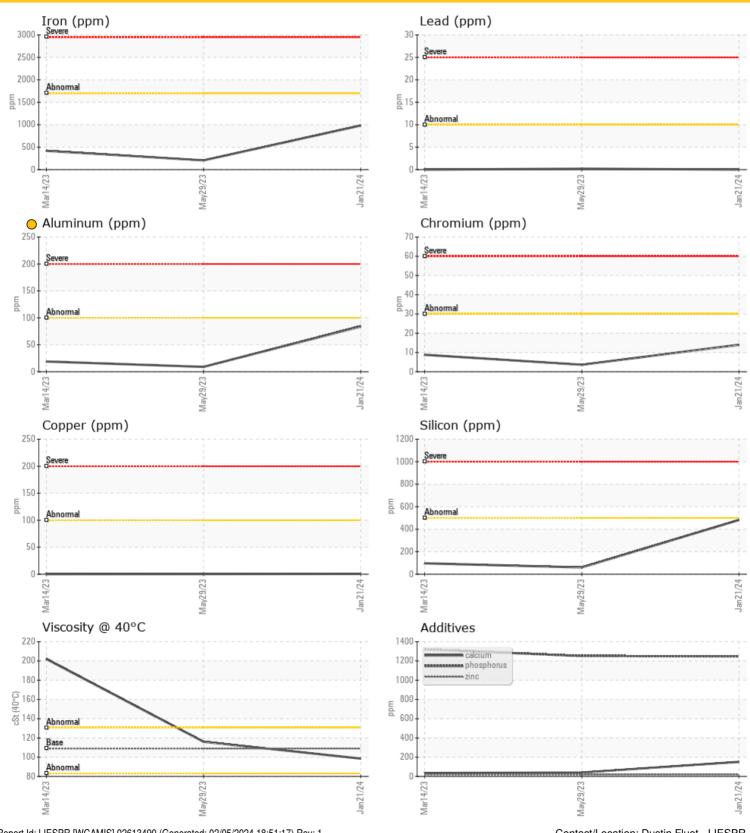
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are abnormal. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIESPR
Unique No: 5722585
Signed: Bill Quesnel
Report Date: 05 Feb 2024





### **GRAPHS**



Report Id: LIESPR [WCAMIS] 02613490 (Generated: 02/05/2024 18:51:17) Rev: 1

Contact/Location: Dustin Fluet - LIESPR