

## LIEBHERR R918LC 047212-1721 - Diesel Engine

Sample No: LH0286430

Oil Type: PETRO CANADA 10W40

## **Sample Information**

Sample Number	LH0286430	LH0284032	LH0221997	
Sample Date	15 Jun 2024	01 Mar 2024	11 Mar 2022	
Machine Hours	3540	3066	1505	
Oil Hours	0	0	0	
Oil Changed	Changed	N/A	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	

Oil Co	ndition				
Visc @ 40°C	cSt		0 105		
Visc @ 100°C	cSt	0 14.4	◯ 14.1	0 13.8	
Viscosity Index (VI)	Scale		0 136		
Oxidation (PA)	%	73	90	51	

Contamination						
Water	%	NEG	NEG	NEG		
Soot %	%	0	0	0		
Nitration (PA)	%	83	94	57		
Sulfation (PA)	%	58	71	53		
Glycol	%	NEG	NEG	NEG		
Fuel	%	<1.0	<1.0	<1.0		
Silicon	ppm	<b>0</b> 19	0 10	24		
Sodium	ppm	0 2	0 4	2		
Potassium	ppm	<b></b> <1	0 2	0 1		

## $\odot$ Wear Metals

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Iron	ppm	0 11	24	12	
Copper	ppm	<b>3</b>	0 10	2	
Lead	ppm	◯ <1	3	◯ <1	
Tin	ppm	0	0	0	
Aluminum	ppm	0 2	3	2	
Chromium	ppm	◯ <1	01	○ <1	
Molybdenum	ppm	<b>5</b> 9	37	55	
Nickel	ppm	0	○ <1	○ <1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	◯ <1	0	◯ <1	
Vanadium	ppm	0	0	0	

	litives				
Calcium	ppm	0 1585	0 1933	0 1724	
Magnesium	ppm	0 713	○ 556	863	
Zinc	ppm	0 1283	0 1209	1387	
Phosphorus	ppm	0 1091	994	1238	
Barium	ppm	0	0	0	
Boron	ppm	0 11	0 13	03	





33171 2ND AVENUE

MISSION, BC CA V2V 6T8 Contact: Service Manager

Т: F:

## Diagnosis

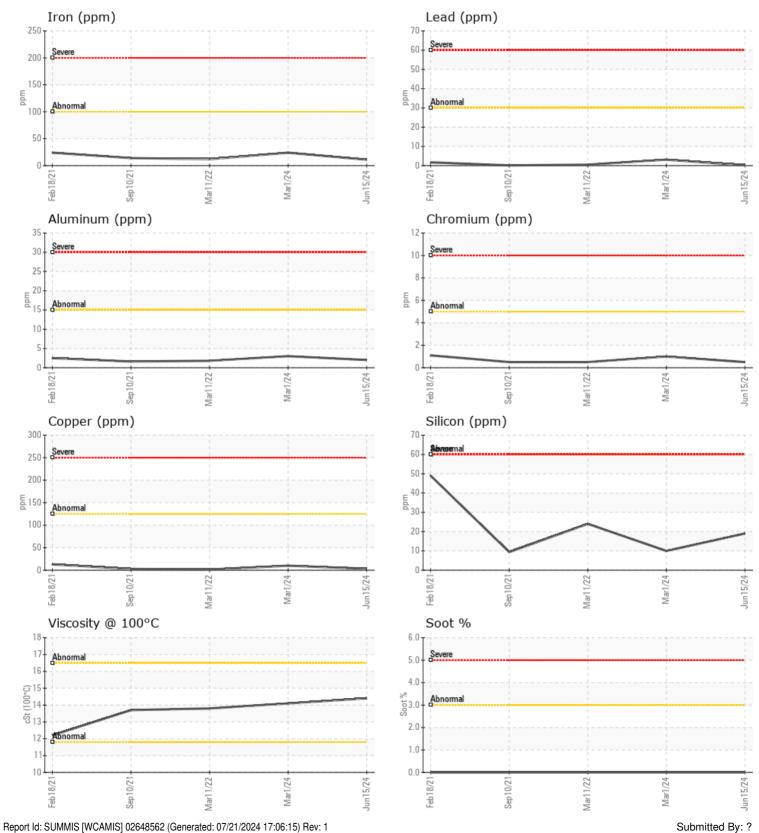
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





Graphs

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