

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[597028]] LIEBHERR R920 056505-1705 - Diesel Engine

Sample No: LH0269674

Oil Type: LIEBHERR MOTOROIL 5W30



**HAYSHAKERS BOBCAT SERVICES**  
 501 761 HWY  
 LESLIEVILLE, AB  
 CA T0M 1H0  
 Contact: Service Manager



### SAMPLE INFORMATION

Sample Number	LH0269674	---	---	---
Sample Date	08 Feb 2024	---	---	---
Machine Hours	528	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



### OIL CONDITION

Visc @ 100°C	cSt	12.2	---	---	---
Oxidation (PA)	%	174	---	---	---

T:  
F:



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	86	---	---	---
Sulfation (PA)	%	99	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	57	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	1	---	---	---

### Diagnosis

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Light concentration of visible metal present. 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.



### WEAR METALS

Iron	ppm	24	---	---	---
Copper	ppm	43	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	45	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	5	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	1845	---	---	---
Magnesium	ppm	746	---	---	---
Zinc	ppm	905	---	---	---
Phosphorus	ppm	788	---	---	---
Barium	ppm	5	---	---	---
Boron	ppm	99	---	---	---

**Depot:** HAYLES  
**Unique No:** 5733712  
**Signed:** Kevin Marson  
**Report Date:** 23 Feb 2024



### GRAPHS

