

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1203-88008 - Front Right Wheel Hub

Sample No: LH0258507

Oil Type: LIEBHERR GEAR BASIC 90 LS



**JR VINAGRO**  
2208 PLAINFIELD PIKE  
JOHNSTON, RI  
US 02919  
Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	<b>LH0258507</b>	LH0229240	LH0207352	LH0184647
Sample Date	<b>01 Feb 2024</b>	20 Jul 2022	11 Nov 2021	28 Jun 2021
Machine Hours	<b>7000</b>	7000	5159	4041
Oil Hours	<b>1000</b>	1841	459	1000
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>176</b>	171	163	139
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>0</b>	4	3	13
Sodium	ppm	<b>1</b>	14	17	17
Potassium	ppm	<b>0</b>	0	2	<1

#### 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.



#### WEAR METALS

Iron	ppm	<b>3</b>	45	50	93
Copper	ppm	<b>2</b>	3	4	12
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	1	<1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	1	1	2
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

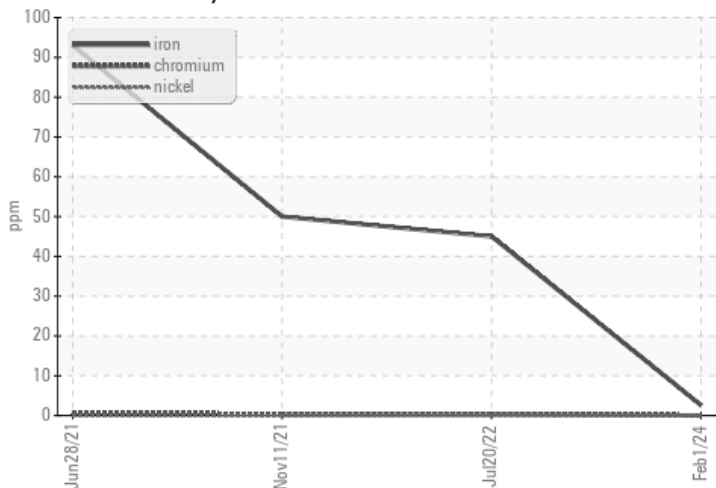
Calcium	ppm	<b>85</b>	62	104	263
Magnesium	ppm	<b>33</b>	<1	1	4
Zinc	ppm	<b>44</b>	30	26	63
Phosphorus	ppm	<b>2254</b>	2305	2265	2107
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>8</b>	4	23	21

**Depot:** JRVJOH  
**Unique No:** 10871847  
**Signed:** Wes Davis  
**Report Date:** 09 Feb 2024

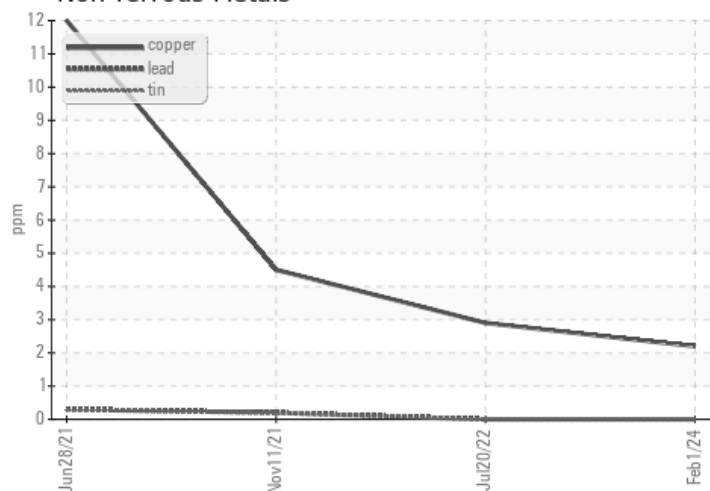


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

