

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 1216-108671- Splitter Box

Sample No: LH0268415

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### Sample Information

Sample Number	<b>LH0268415</b>	LH0258756	LH0272711	LH0203912
Sample Date	<b>14 Jun 2024</b>	23 Feb 2024	17 Jan 2024	17 Jun 2022
Machine Hours	<b>21235</b>	20036	19562	14203
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	<b>104</b>	105	106	114
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#### Contamination

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>&lt;1</b>	1	2	<1
Sodium	ppm	<b>1</b>	2	2	1
Potassium	ppm	<b>1</b>	1	<1	2



#### Wear Metals

Iron	ppm	<b>8</b>	10	14	6
Copper	ppm	<b>2</b>	2	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>0</b>	0	0	2
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



#### Additives

Calcium	ppm	<b>48</b>	82	101	194
Magnesium	ppm	<b>5</b>	5	3	20
Zinc	ppm	<b>36</b>	73	89	119
Phosphorus	ppm	<b>813</b>	848	826	869
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>13</b>	0	0	29

#### Diagnosis

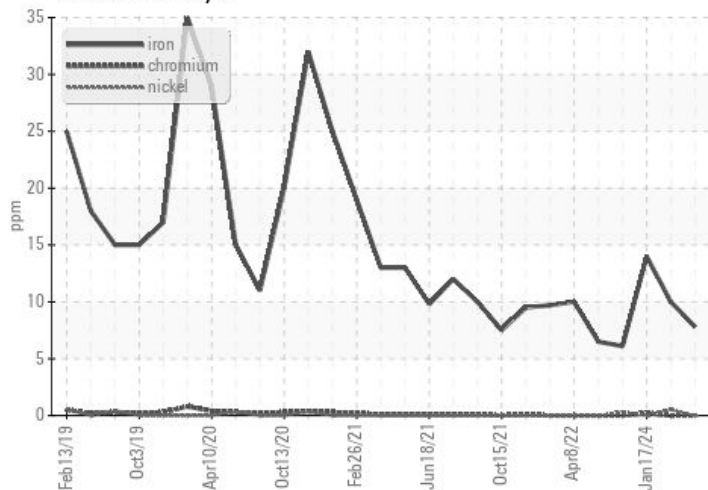
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 11097174  
**Signed:** Don Baldrige  
**Report Date:** 26 Jun 2024

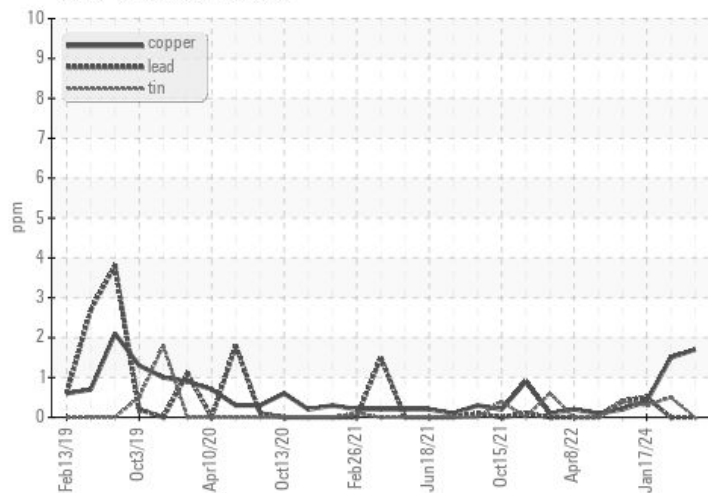


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

