

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 064064-1007 - Rear Left Wheel Hub

Sample No: LH0272538

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### SAMPLE INFORMATION

Sample Number	<b>LH0272538</b>	LH0254768	LH0243222	LH0217645
Sample Date	<b>21 Dec 2023</b>	23 Jun 2023	10 Jan 2023	05 Jul 2022
Machine Hours	<b>25949</b>	24973	24002	23011
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>120</b>	140	147	138
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>2</b>	5	3	4
Sodium	ppm	<b>0</b>	0	2	2
Potassium	ppm	<b>0</b>	2	2	1



#### WEAR METALS

Iron	ppm	<b>18</b>	21	27	16
Copper	ppm	<b>2</b>	3	3	2
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	<1	1
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>0</b>	<1	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>43</b>	37	61	116
Magnesium	ppm	<b>6</b>	9	11	14
Zinc	ppm	<b>11</b>	36	6	48
Phosphorus	ppm	<b>815</b>	1163	1040	1024
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>3</b>	8	9	26

#### Diagnosis

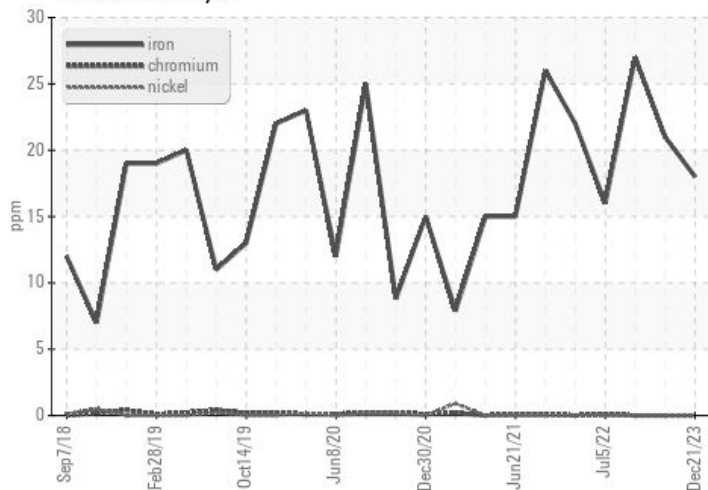
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 10819157  
**Signed:** Don Baldrige  
**Report Date:** 08 Jan 2024

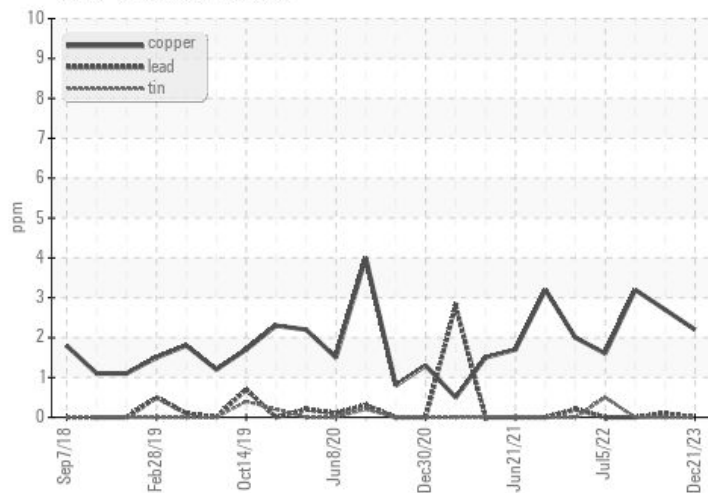


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

