

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0268388

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	<b>LH0268388</b>	LH0272538	LH0254768	LH0243222
Sample Date	<b>27 Jun 2024</b>	21 Dec 2023	23 Jun 2023	10 Jan 2023
Machine Hours	<b>26934</b>	25949	24973	24002
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	<b>98.1</b>	120	140	147
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#### Contamination

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



#### Wear Metals

Iron	ppm	<b>22</b>	18	21	27
Copper	ppm	<b>2</b>	2	3	3
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	1	<1	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>675</b>	43	37	61
Magnesium	ppm	<b>6</b>	6	9	11
Zinc	ppm	<b>305</b>	11	36	6
Phosphorus	ppm	<b>1008</b>	815	1163	1040
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>0</b>	3	8	9

#### Diagnosis

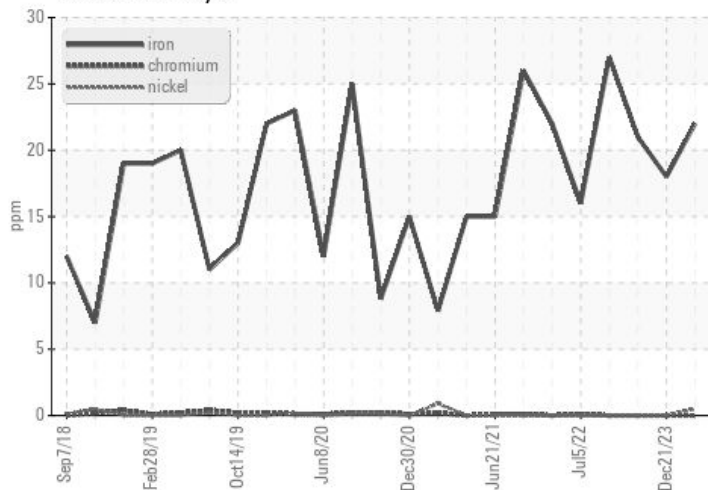
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

**Depot:** LEC0008  
**Unique No:** 11126020  
**Signed:** Don Baldrige  
**Report Date:** 17 Jul 2024

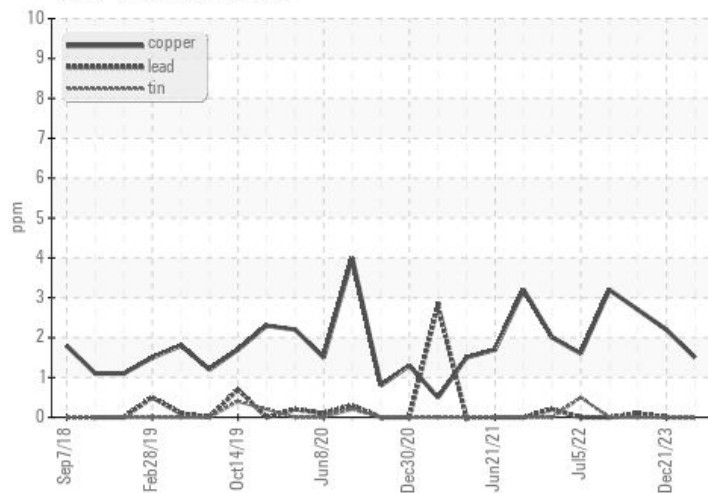


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

