

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 064064-1007 - Front Differential

Sample No: LH0254766

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	<b>LH0254766</b>	LH0243216	LH0217642	LH0217490
Sample Date	<b>23 Jun 2023</b>	10 Jan 2023	05 Jul 2022	18 Feb 2022
Machine Hours	<b>24973</b>	24002	23011	22205
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>133</b>	139	140	150
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#### CONTAMINATION

Silicon	ppm	<b>&lt;1</b>	1	<1	<1
Sodium	ppm	<b>0</b>	2	<1	<1
Potassium	ppm	<b>1</b>	<1	<1	0



#### WEAR METALS

Iron	ppm	<b>4</b>	9	2	2
Copper	ppm	<b>&lt;1</b>	2	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>0</b>	0	<1	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>29</b>	48	69	87
Magnesium	ppm	<b>7</b>	7	6	14
Zinc	ppm	<b>30</b>	0	28	34
Phosphorus	ppm	<b>838</b>	599	726	840
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>6</b>	8	14	22

#### Diagnosis

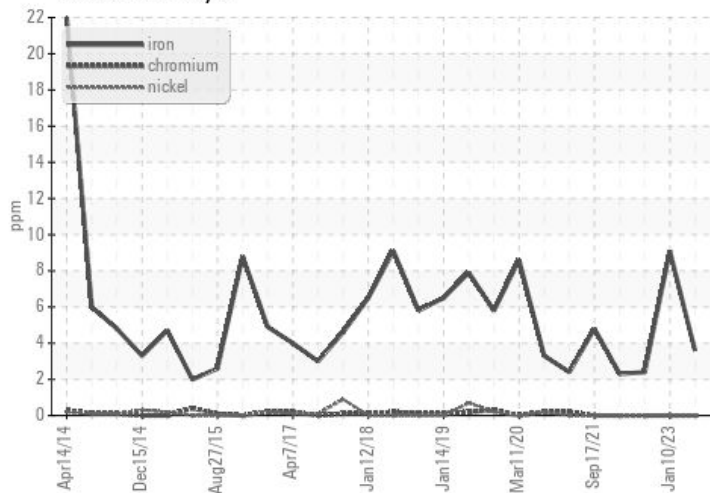
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LEC0008  
**Unique No:** 10546783  
**Signed:** Angela Borella  
**Report Date:** 07 Jul 2023

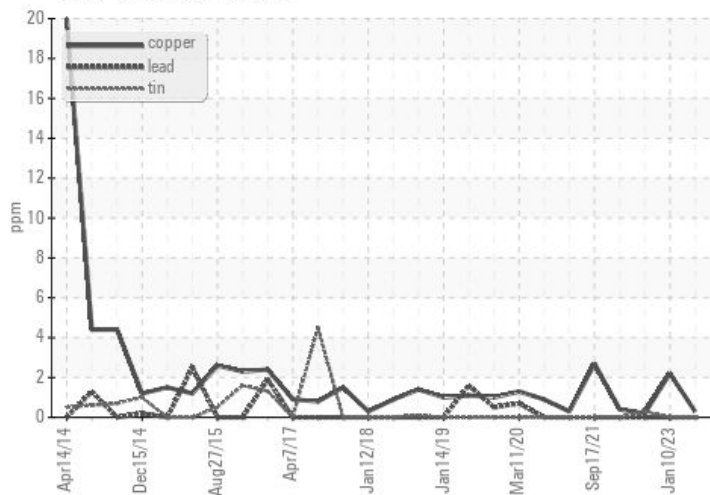


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

