

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 064064-1007 - Pump Drive

Sample No: LH0258825

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	<b>LH0258825</b>	LH0243333	LH0254761	LH0254035
Sample Date	<b>20 Feb 2024</b>	02 Oct 2023	23 Jun 2023	28 Mar 2023
Machine Hours	<b>26421</b>	25481	24973	24487
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>119</b>	121	125	128
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	<b>23</b>	11	9	13
Copper	ppm	<b>&lt;1</b>	<1	<1	0
Lead	ppm	<b>1</b>	1	1	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>1</b>	<1	<1	<1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>1</b>	1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>50</b>	55	49	70
Magnesium	ppm	<b>5</b>	17	14	21
Zinc	ppm	<b>40</b>	25	26	46
Phosphorus	ppm	<b>756</b>	1015	802	821
Barium	ppm	<b>2</b>	0	2	<1
Boron	ppm	<b>3</b>	8	8	10

#### Diagnosis

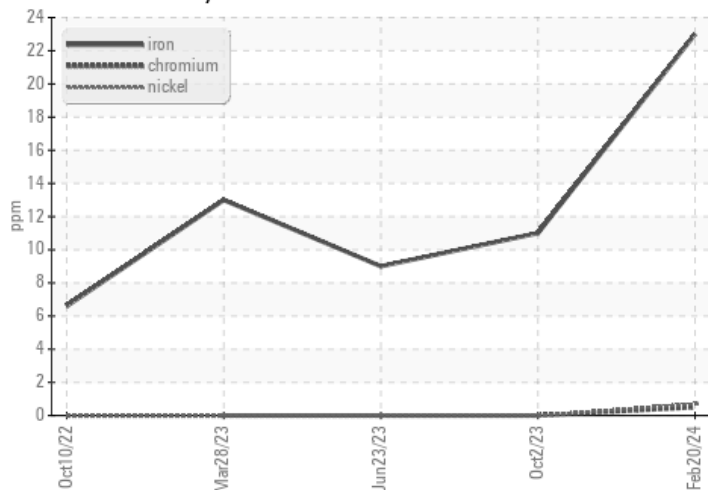
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10902152  
 Signed: Wes Davis  
 Report Date: 29 Feb 2024

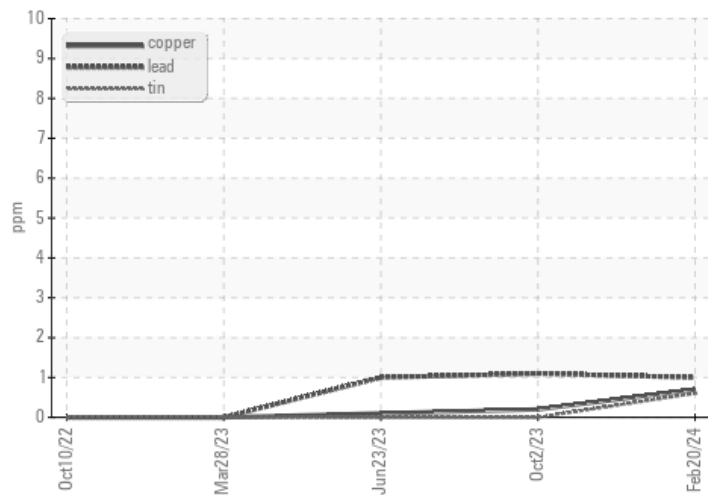


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

