

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 121854-1253 - Front Right Wheel Hub

Sample No: LH0272749

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	<b>LH0272749</b>	LH0264394	LH0220809	LH0235811
Sample Date	<b>02 Jan 2024</b>	04 Aug 2023	05 Dec 2022	03 Aug 2022
Machine Hours	<b>6976</b>	6000	3974	3014
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>127</b>	131	137	119
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>4</b>	5	2	6
Sodium	ppm	<b>2</b>	6	4	5
Potassium	ppm	<b>2</b>	4	<1	2



#### WEAR METALS

Iron	ppm	<b>137</b>	161	98	50
Copper	ppm	<b>3</b>	4	3	4
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	1	3	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>1</b>	<1	<1	1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>2</b>	1	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>40</b>	48	54	80
Magnesium	ppm	<b>5</b>	7	9	16
Zinc	ppm	<b>2</b>	9	11	23
Phosphorus	ppm	<b>763</b>	765	631	654
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	4	8	8

#### Diagnosis

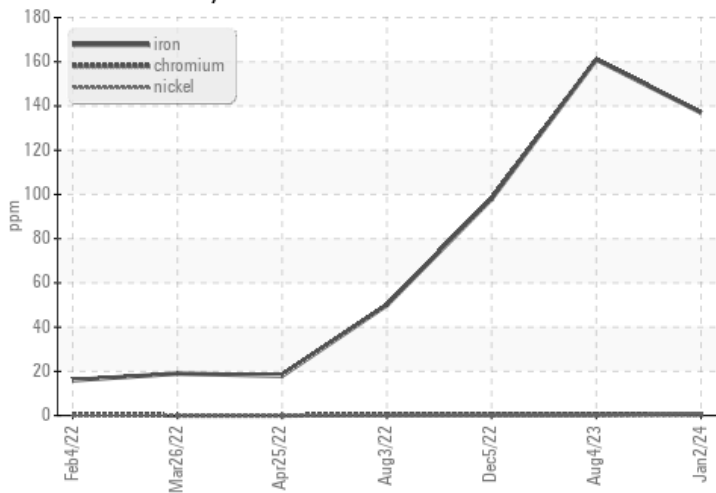
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10821031  
 Signed: Sean Felton  
 Report Date: 10 Jan 2024

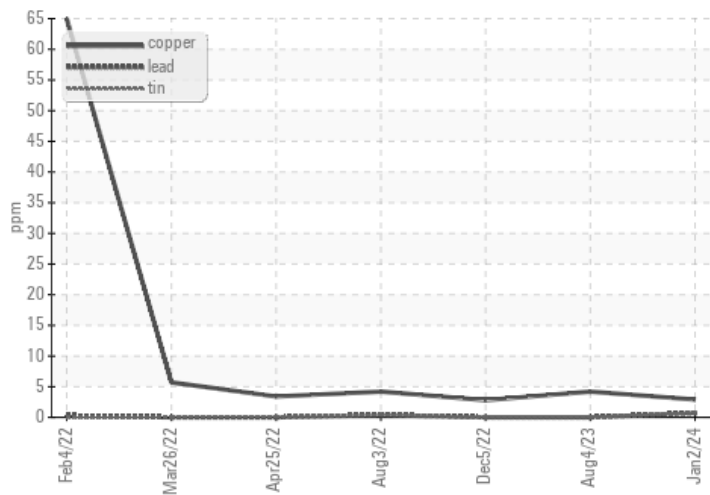


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

