

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1203-77107 - Front Right Wheel Hub

Sample No: LH0258796

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	LH0258796	LH0272542	LH0243164	LH0217031
Sample Date	01 Mar 2024	28 Nov 2023	22 Dec 2022	08 Dec 2021
Machine Hours	20946	20037	17940	15034
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	119	120	131	130
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	8	24	6
Sodium	ppm	5	5	10	0
Potassium	ppm	0	9	7	2



#### WEAR METALS

Iron	ppm	158	229	402	39
Copper	ppm	9	17	47	1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	6	0
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	0	0	<1	2
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	5	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	54	40	60	175
Magnesium	ppm	1	7	11	26
Zinc	ppm	34	20	42	89
Phosphorus	ppm	861	740	707	989
Barium	ppm	0	0	<1	0
Boron	ppm	5	10	4	71

#### Diagnosis

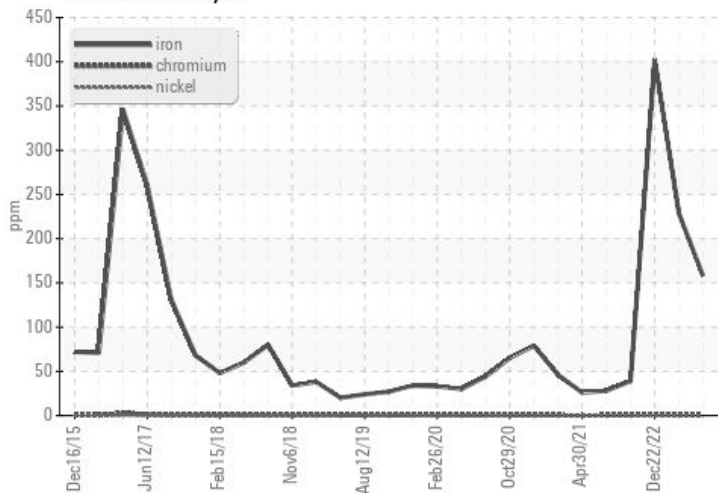
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10940053  
 Signed: Angela Borella  
 Report Date: 25 Mar 2024

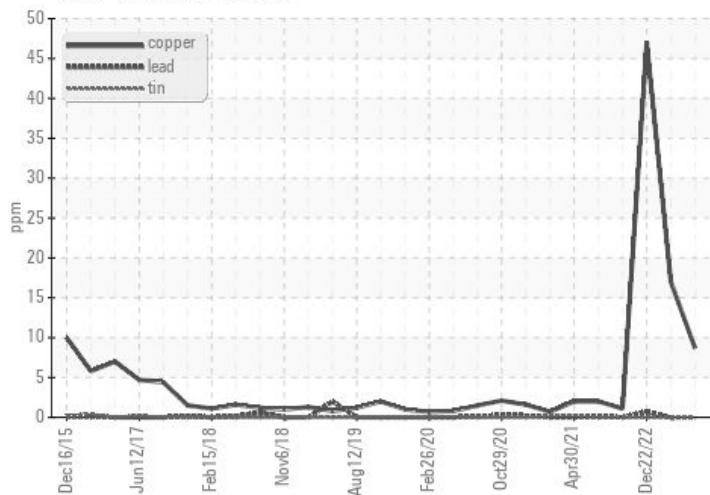


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

