

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1203-77107 - Rear Left Wheel Hub

Sample No: LH0258801

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	LH0258801	LH0272543	LH0254741	LH0243165
Sample Date	01 Mar 2024	29 Nov 2023	16 Jun 2023	22 Dec 2022
Machine Hours	20946	20037	18994	1790
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	117	119	128	135
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	4	14	13
Sodium	ppm	0	0	1	0
Potassium	ppm	0	0	<1	4



#### WEAR METALS

Iron	ppm	34	43	78	82
Copper	ppm	2	2	3	3
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	55	62	61	93
Magnesium	ppm	<1	11	7	13
Zinc	ppm	19	27	33	47
Phosphorus	ppm	878	722	826	807
Barium	ppm	0	0	0	0
Boron	ppm	1	6	10	24

#### Diagnosis

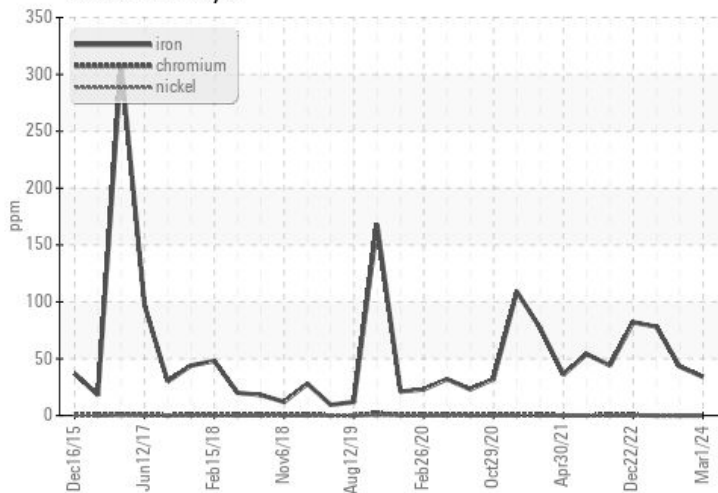
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10938562  
 Signed: Don Baldrige  
 Report Date: 23 Mar 2024

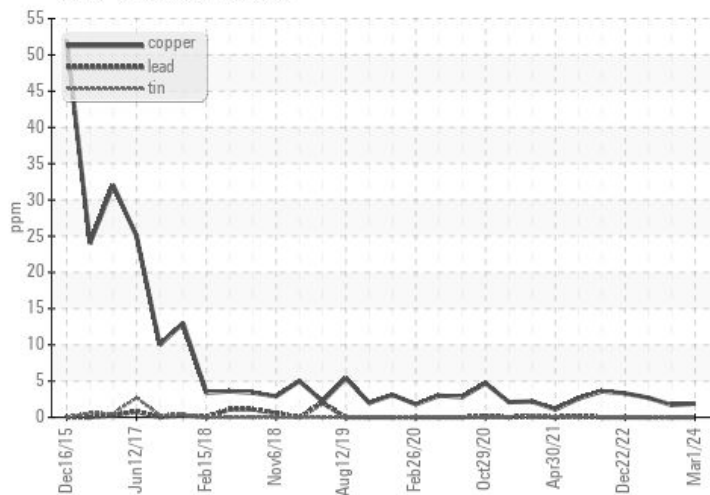


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

