

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 120113-1253 - Front Left Wheel Hub

Sample No: LH0264785

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	LH0264785	LH0264328	LH0220998	LH0200603
Sample Date	21 Mar 2024	27 Jul 2023	28 Nov 2022	28 Feb 2022
Machine Hours	10009	9001	7984	5989
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	115	129	126	138
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	1	2	2
Sodium	ppm	5	6	4	2
Potassium	ppm	2	2	0	0



#### WEAR METALS

Iron	ppm	97	68	49	39
Copper	ppm	<1	2	2	1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	2	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	6
Manganese	ppm	1	1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	131	123	92	118
Magnesium	ppm	10	17	18	18
Zinc	ppm	59	66	18	46
Phosphorus	ppm	908	880	651	812
Barium	ppm	0	0	0	0
Boron	ppm	8	2	12	22

#### Diagnosis

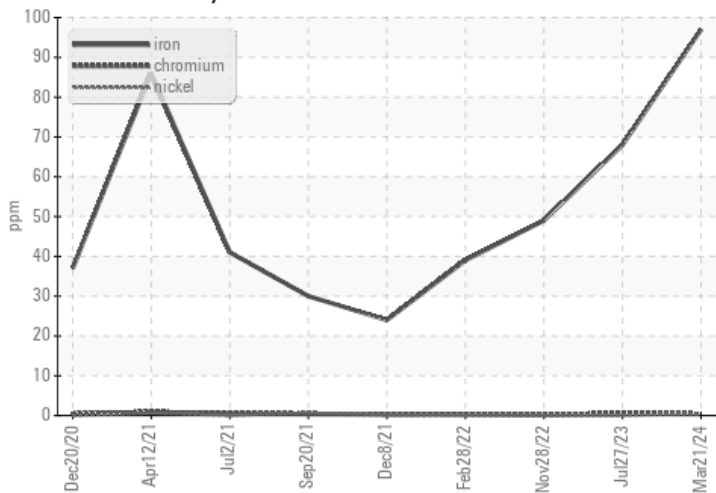
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10955348  
 Signed: Wes Davis  
 Report Date: 02 Apr 2024

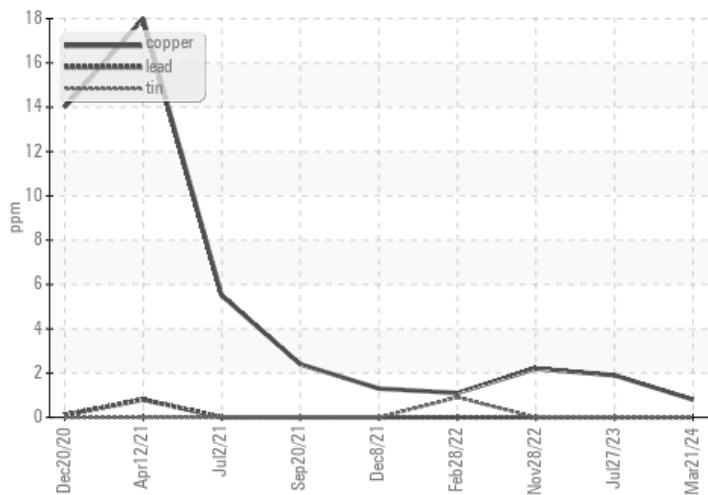


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

