

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 120113-1253 - Front Differential

Sample No: LH0264781

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### Sample Information

Sample Number	LH0264781	LH0220997	LH0200618	LH0217045
Sample Date	21 Mar 2024	28 Nov 2022	28 Feb 2022	08 Dec 2021
Machine Hours	10009	7984	5989	5034
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	121	130	140	141
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	1	<1	<1
Sodium	ppm	2	1	0	0
Potassium	ppm	3	0	0	1



#### Wear Metals

Iron	ppm	8	7	6	4
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	2	<1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	42	147	76	102
Magnesium	ppm	4	16	8	9
Zinc	ppm	23	65	26	31
Phosphorus	ppm	891	834	812	850
Barium	ppm	0	0	0	0
Boron	ppm	<1	25	15	30

#### Diagnosis

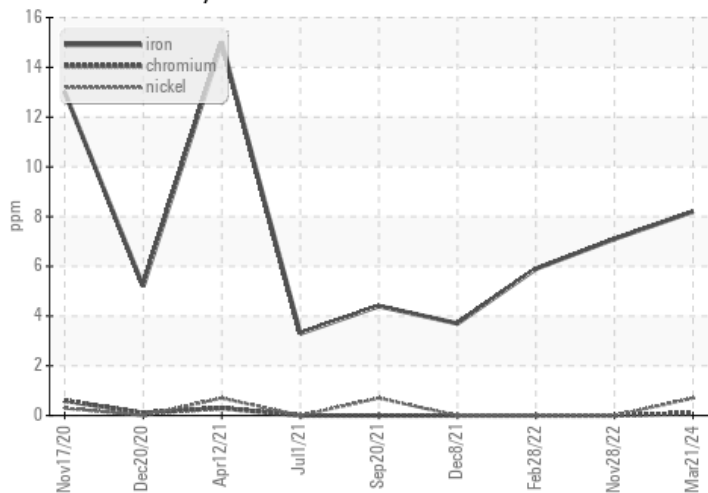
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10955342  
 Signed: Jonathan Hester  
 Report Date: 04 Apr 2024

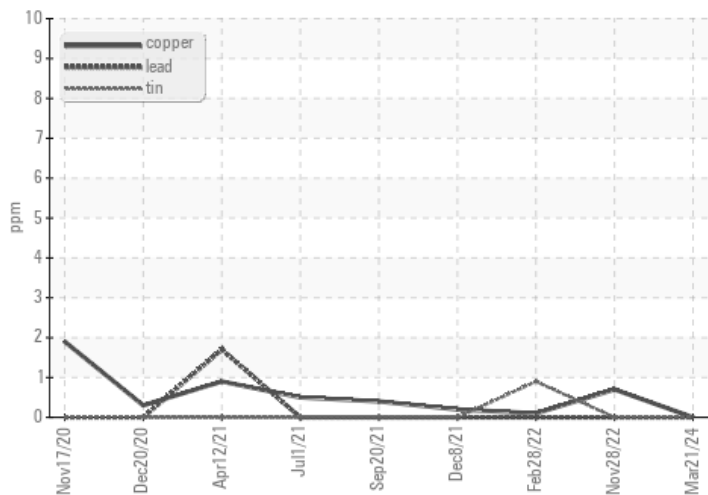


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

