

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-115017 - Swing Drive

Sample No: LH0272511

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



**ALTER RECYCLING**  
 2175 BADGERLAND DR  
 GREEN BAY, WI  
 US 54303  
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#### SAMPLE INFORMATION

Sample Number	LH0272511	LH0243331	LH0243373	LH0153419
Sample Date	30 Jan 2024	29 Sep 2023	03 Apr 2023	21 Sep 2022
Machine Hours	8879	8189	7172	6081
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	124	124	131	132



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	9	1	<1	2
Sodium	ppm	0	0	1	0
Potassium	ppm	1	2	2	3



#### WEAR METALS

Iron	ppm	301	99	107	223
Copper	ppm	123	163	117	162
Lead	ppm	<1	0	0	<1
Tin	ppm	6	7	6	7
Aluminum	ppm	3	0	<1	<1
Chromium	ppm	4	<1	<1	2
Molybdenum	ppm	2	<1	<1	2
Nickel	ppm	2	0	<1	0
Titanium	ppm	1	<1	0	0
Silver	ppm	1	0	0	0
Manganese	ppm	3	<1	1	2
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

Calcium	ppm	40	33	65	78
Magnesium	ppm	7	12	9	15
Zinc	ppm	45	25	48	44
Phosphorus	ppm	647	712	904	918
Barium	ppm	0	0	0	0
Boron	ppm	5	9	24	19

#### Diagnosis

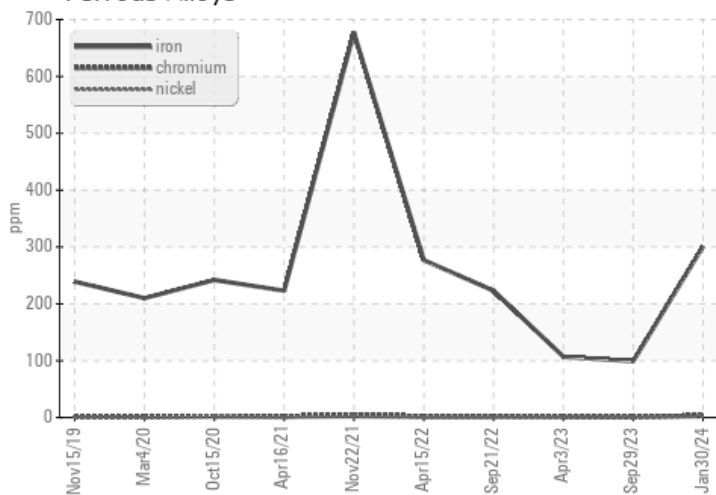
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTGRE  
 Unique No: 10869545  
 Signed: Angela Borella  
 Report Date: 08 Feb 2024

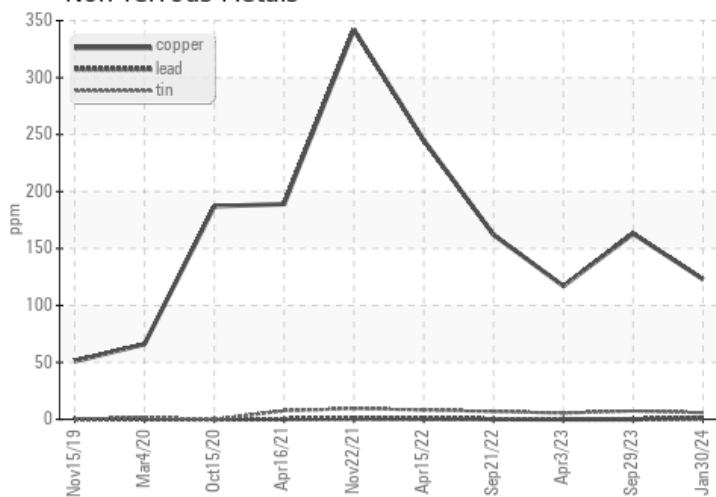


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

