

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[CLEVELAND CLIFF]] LIEBHERR LH60 107739-1217 - Splitter Bc

Sample No: LH0268102

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LH0268102</b>	LH0267640	LH0190704	LHMC104913
Sample Date	<b>22 Jan 2024</b>	16 Oct 2023	21 Jun 2021	15 Nov 2019
Machine Hours	<b>8998</b>	8524	4876	1922
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**FINKBINER EQUIPMENT CO.**  
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#### OIL CONDITION

Visc @ 40°C	cSt	<b>127</b>	132	119	139
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	1	1	2
Sodium	ppm	1	2	4	3
Potassium	ppm	5	<1	3	15

#### 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.



#### WEAR METALS

Iron	ppm	45	36	25	30
Copper	ppm	2	0	7	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	1	1	1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	0	0	0	<1



#### ADDITIVES

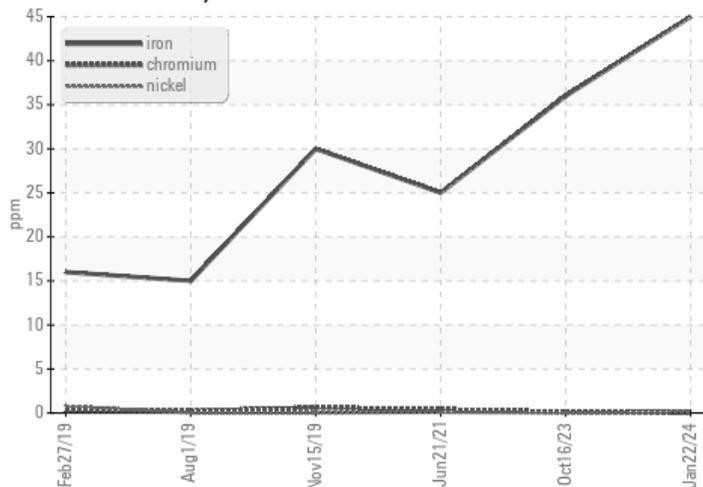
Calcium	ppm	242	63	336	112
Magnesium	ppm	8	<1	9	16
Zinc	ppm	126	38	210	69
Phosphorus	ppm	930	1551	1625	1642
Barium	ppm	0	0	0	<1
Boron	ppm	53	262	96	173

**Depot:** LEC0033  
**Unique No:** 10884165  
**Signed:** Don Baldrige  
**Report Date:** 18 Feb 2024

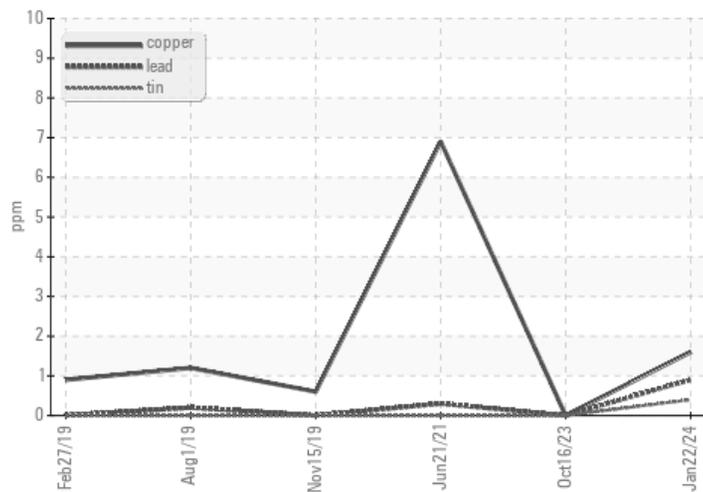


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

