

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH80M 1213-92590 - Front Center Energy Recovery

Sample No: LH06230512

Oil Type: X-2 HYDRUALIC OIL



**OZINGA BROS INC**  
 19001 OLD LAGRANDE RD, SUITE 300  
 MOKENA, IL  
 US 60448  
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 T: (847)344-1443  
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#### Sample Information

Sample Number	LH06230512	LHMC130096	LHMC131360	---
Sample Date	27 Mar 2024	09 May 2020	27 Nov 2019	---
Machine Hours	11144	6109	5341	---
Oil Hours	1000	750	300	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	SEVERE	---



#### Oil Condition

Visc @ 40°C	cSt	114	130	175	---
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#### Contamination

Water	%	NEG	NEG	0.120	---
Silicon	ppm	28	67	100	---
Sodium	ppm	46	73	72	---
Potassium	ppm	11	24	18	---



#### Wear Metals

Iron	ppm	171	212	373	---
Copper	ppm	2	<1	2	---
Lead	ppm	<1	2	0	---
Tin	ppm	0	0	85	---
Aluminum	ppm	9	17	18	---
Chromium	ppm	16	83	191	---
Molybdenum	ppm	3	33	85	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	<1	1	2	---
Silver	ppm	0	0	0	---
Manganese	ppm	3	3	8	---
Vanadium	ppm	<1	0	0	---



#### Additives

Calcium	ppm	96	185	368	---
Magnesium	ppm	24	29	38	---
Zinc	ppm	0	23	47	---
Phosphorus	ppm	157	123	169	---
Barium	ppm	0	<1	0	---
Boron	ppm	0	0	10	---

#### Diagnosis

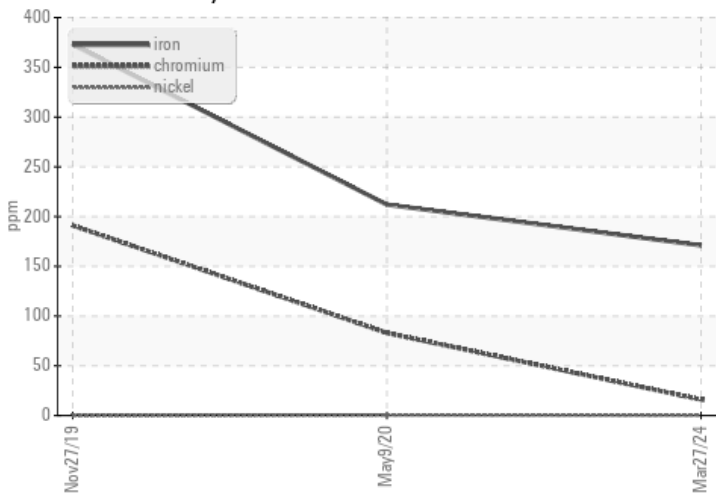
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: OZIMOKLH  
 Unique No: 11114005  
 Signed: Don Baldrige  
 Report Date: 10 Jul 2024

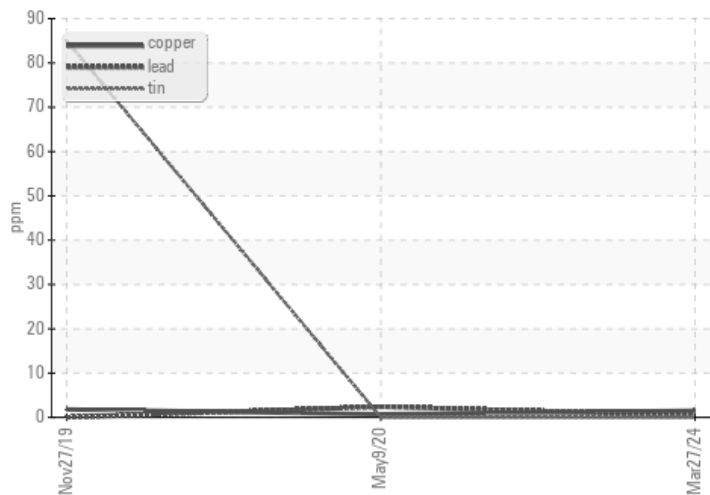


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

