

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH80M 1213-92590 - Swing Drive

Sample No: LH06230514

Oil Type: LIEBHERR GEAR BASIC 90 LS



**OZINGA BROS INC**  
 19001 OLD LAGRANDE RD, SUITE 300  
 MOKENA, IL  
 US 60448  
 Contact: TOM KONIECZNY  
 tom.konieczny@imcrushingllc.com  
 T: (847)344-1443  
 F:



#### Sample Information

Sample Number	LH06230514	LHMC130103	LHMC131362	LHMC115736
Sample Date	27 Mar 2024	09 May 2020	27 Nov 2019	06 Mar 2018
Machine Hours	11144	6109	5341	2080
Oil Hours	1000	0	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	130	191	194	194.0
-------------	-----	-----	-----	-----	-------



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	1	5
Sodium	ppm	1	0	3	3
Potassium	ppm	3	12	<1	<1



#### Wear Metals

Iron	ppm	478	214	238	268
Copper	ppm	359	8	177	57
Lead	ppm	<1	6	0	0
Tin	ppm	2	0	4	0
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	4	4	2	2
Molybdenum	ppm	<1	1	0	0
Nickel	ppm	3	1	1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	4	1	1	3
Vanadium	ppm	0	0	0	<1



#### Additives

Calcium	ppm	48	12	4	22
Magnesium	ppm	1	<1	0	2
Zinc	ppm	63	14	21	32
Phosphorus	ppm	712	1838	2223	1968
Barium	ppm	0	<1	0	<1
Boron	ppm	15	1	9	5

#### Diagnosis

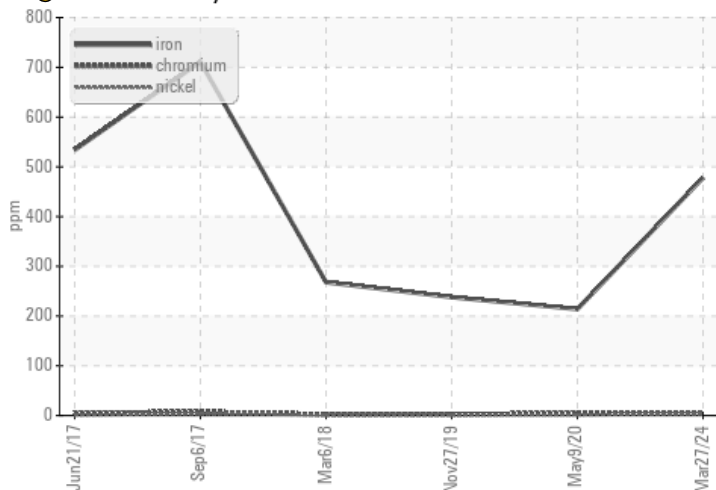
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: OZIMOKLH  
 Unique No: 11114007  
 Signed: Don Baldrige  
 Report Date: 10 Jul 2024

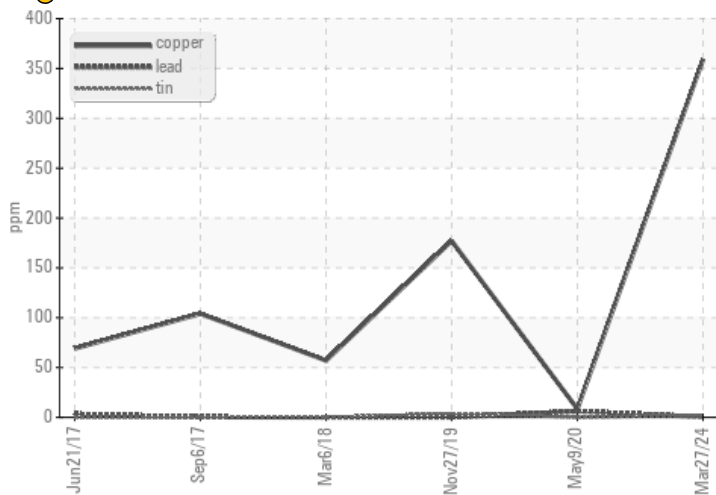


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

