

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R944 042563-194 - Swing Drive

Sample No: LH0243873

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0243873	LH0220405	LHMC93575	---
Sample Date	29 Feb 2024	03 Oct 2022	29 Dec 2015	---
Machine Hours	29512	28033	15560	---
Oil Hours	0	1000	1000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	ABNORMAL	ATTENTION	---

#### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE  
NEWPORT NEWS, VA  
US 23607

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#### OIL CONDITION

Visc @ 40°C	cSt	306	314	294.7	---
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#### CONTAMINATION

Water	%	NEG	0.669	NEG	---
Silicon	ppm	8	5	3	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	2	<1	8	---



#### WEAR METALS

Iron	ppm	1326	618	283	---
Copper	ppm	637	286	270	---
Lead	ppm	<1	7	<1	---
Tin	ppm	58	22	0	---
Aluminum	ppm	1	6	<1	---
Chromium	ppm	8	4	1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	4	1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	9	4	2	---
Vanadium	ppm	<1	<1	0	---



#### ADDITIVES

Calcium	ppm	20	17	78	---
Magnesium	ppm	5	2	23	---
Zinc	ppm	46	39	56	---
Phosphorus	ppm	1310	1015	772	---
Barium	ppm	0	0	<1	---
Boron	ppm	123	137	128	---

#### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.

Depot: LIEBHERRUS

Unique No: 10915848

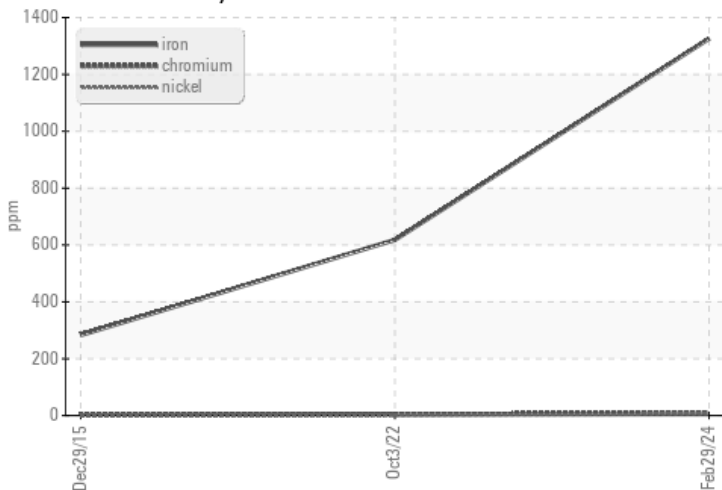
Signed: Don Baldrige

Report Date: 11 Mar 2024

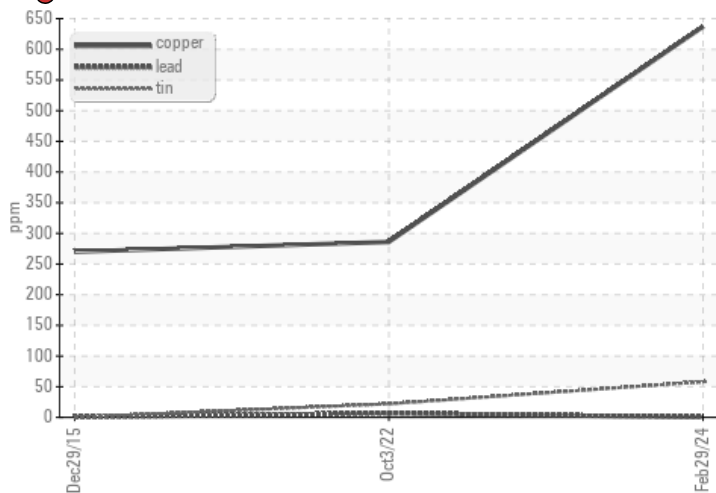


### GRAPHS

#### Ferrous Alloys



#### ● Non-ferrous Metals



#### ● Viscosity @ 40°C

