

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH110 155976-1227 - Rear Right Wheel Hub

Sample No: LH0267557

Oil Type: GEAR OIL SAE 80W90



**KINDER MORGAN**  
4301 IVERSON  
TRINITY, AL  
US 35601  
Contact: CHIP OAKES

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#### Sample Information

Sample Number	LH0267557	LH0267532	LH0280579	LH0280568
Sample Date	12 May 2024	18 Apr 2024	23 Feb 2024	30 Jan 2024
Machine Hours	1951	1623	995	534
Oil Hours	956	628	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	95.6	98.7	156	156



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	6	16	16
Sodium	ppm	2	<1	3	0
Potassium	ppm	2	10	1	2



#### Wear Metals

Iron	ppm	49	40	54	47
Copper	ppm	12	8	16	13
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	1	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	<1	2	<1
Vanadium	ppm	<1	0	0	0



#### Additives

Calcium	ppm	166	156	112	114
Magnesium	ppm	6	0	2	<1
Zinc	ppm	98	82	26	6
Phosphorus	ppm	428	403	1526	1240
Barium	ppm	0	0	0	6
Boron	ppm	3	15	13	17

#### Diagnosis

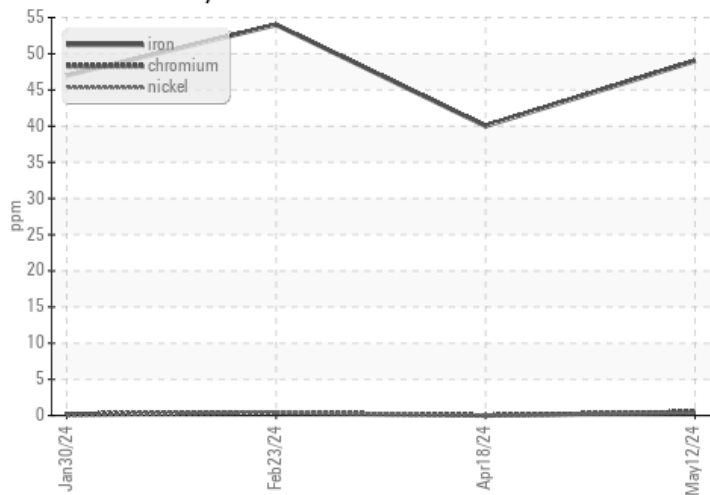
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** KINTRI  
**Unique No:** 11049375  
**Signed:** Don Baldrige  
**Report Date:** 30 May 2024

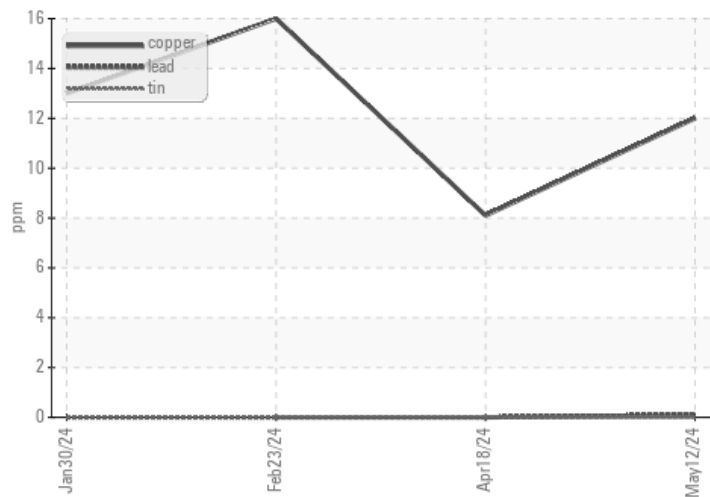


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C

