

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0267253

Oil Type: GEAR OIL SAE 80W90



**KINDER MORGAN**

4301 IVERSON

TRINITY, AL

US 35601

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#### Sample Information

Sample Number	LH0267253	LH0267551	LH0267534	LH0280578
Sample Date	08 Jun 2024	12 May 2024	18 Apr 2024	23 Feb 2024
Machine Hours	2430	1951	1623	995
Oil Hours	479	956	628	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	ABNORMAL	ATTENTION	ATTENTION	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	83.4	96.6	98.7	156



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	7	5	17
Sodium	ppm	2	2	0	3
Potassium	ppm	1	1	0	<1



#### Wear Metals

Iron	ppm	32	55	36	55
Copper	ppm	5	12	8	17
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	2	1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	<1	2
Vanadium	ppm	<1	<1	0	0



#### Additives

Calcium	ppm	222	161	177	111
Magnesium	ppm	40	6	4	2
Zinc	ppm	187	97	103	26
Phosphorus	ppm	444	435	466	1516
Barium	ppm	0	0	0	0
Boron	ppm	9	3	<1	14

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: KINTRI

Unique No: 11089048

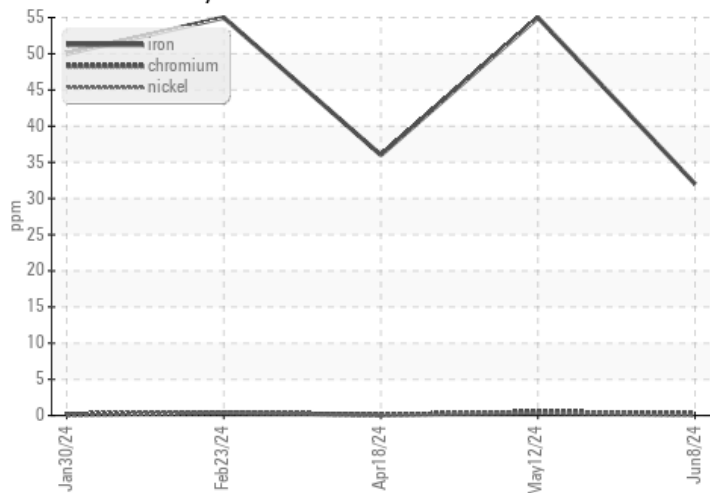
Signed: Don Baldrige

Report Date: 23 Jun 2024

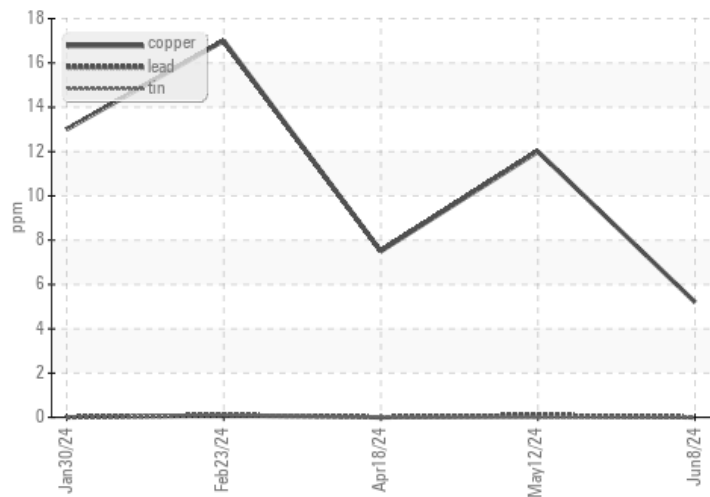


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

