

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH110 155976-1227 - Rear Differential

Sample No: LH0267258

Oil Type: GEAR OIL SAE 80W90



**KINDER MORGAN**

4301 IVERSON

TRINITY, AL

US 35601

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#### Sample Information

Sample Number	LH0267258	LH0267558	LH0280571	LH0280560
Sample Date	08 Jun 2024	12 May 2024	23 Feb 2024	30 Jan 2024
Machine Hours	2430	1951	995	534
Oil Hours	479	956	0	0
Oil Changed	Not Changd	Changed	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	83.0	96.7	157	156



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	7	16	15
Sodium	ppm	0	1	3	0
Potassium	ppm	<1	1	1	2



#### Wear Metals

Iron	ppm	26	50	57	41
Copper	ppm	5	12	17	12
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	2	0	0
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	2	<1
Vanadium	ppm	0	<1	0	0



#### Additives

Calcium	ppm	189	166	117	115
Magnesium	ppm	35	7	2	<1
Zinc	ppm	157	100	27	5
Phosphorus	ppm	369	437	1578	1283
Barium	ppm	0	0	0	6
Boron	ppm	8	4	14	17

#### 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 oil viscosity is lower than normal. Confirm oil type.

Depot: KINTRI

Unique No: 11089047

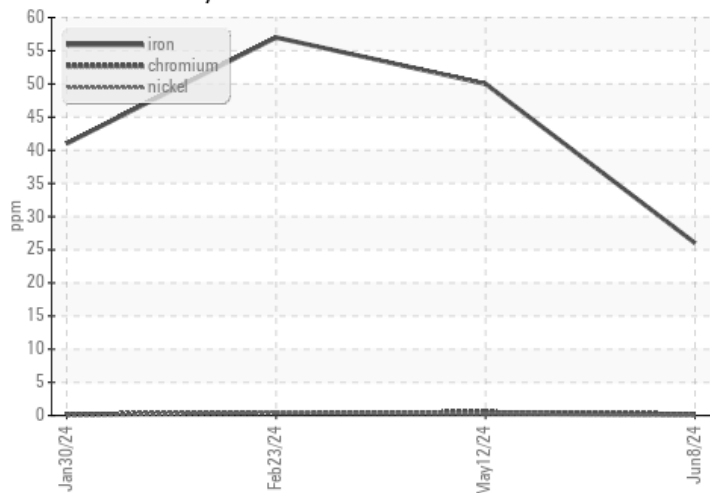
Signed: Don Baldrige

Report Date: 23 Jun 2024

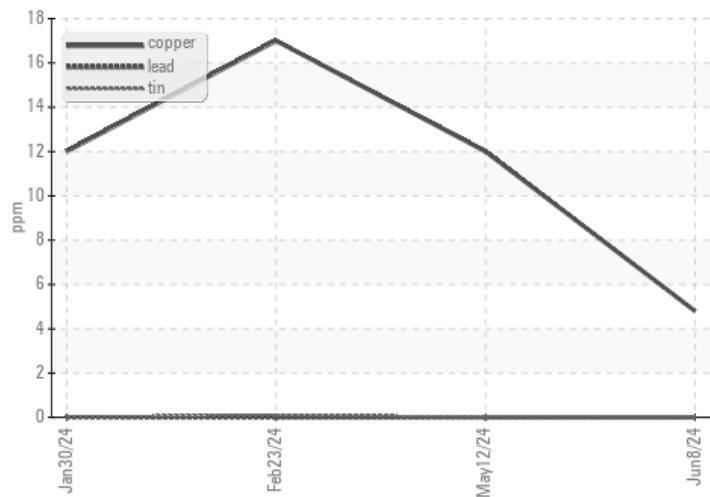


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

