

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 107076-1216 - Front Differential

Sample No: LH0254697

Oil Type: GEAR OIL SAE 80W90



**AMERICAN STATE EQUIPMENT CO.**  
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#### SAMPLE INFORMATION

Sample Number	LH0254697	LH0245017	LH0236230	LH0207876
Sample Date	08 Jun 2023	10 Mar 2023	17 Oct 2022	20 Apr 2022
Machine Hours	8928	9953	9029	8173
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	126	115	172	194
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#### CONTAMINATION

Silicon	ppm	<1	2	<1	<1
Sodium	ppm	0	<1	<1	3
Potassium	ppm	1	1	<1	0



#### WEAR METALS

Iron	ppm	4	3	1	4
Copper	ppm	<1	<1	2	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	3	<1	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	67	27	6	2
Magnesium	ppm	24	6	0	0
Zinc	ppm	35	18	0	0
Phosphorus	ppm	800	500	2464	2132
Barium	ppm	0	0	0	0
Boron	ppm	14	36	2	6

#### Diagnosis

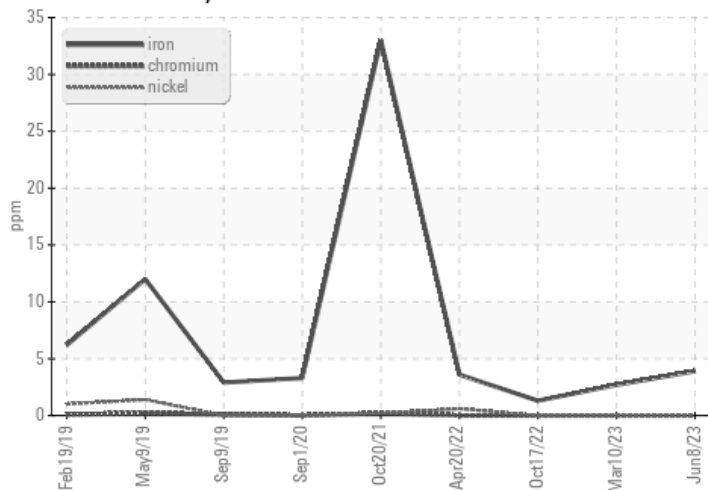
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10535784  
 Signed: Don Baldrige  
 Report Date: 30 Jun 2023

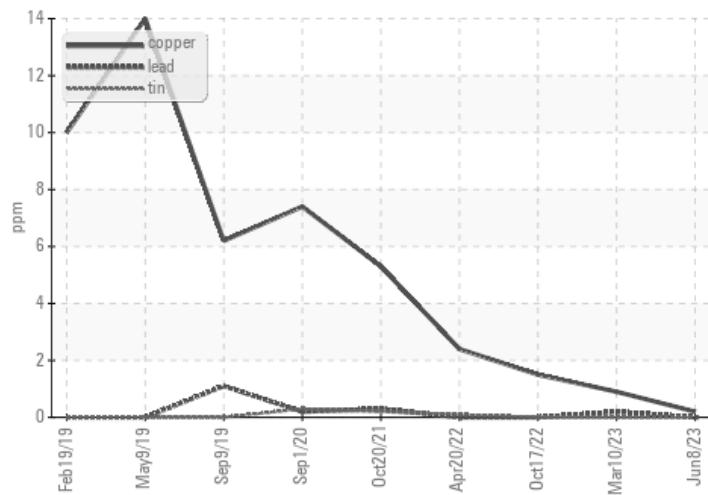


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

