

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 121854-1253 - Rear Differential

Sample No: LH0264397

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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

Sample Number	LH0264397	LH0220805	LH0217776	LH0217687
Sample Date	04 Aug 2023	05 Dec 2022	25 Apr 2022	26 Mar 2022
Machine Hours	6007	3974	1795	1331
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	133	139	125	127
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	38	24	6	11
Copper	ppm	3	<1	<1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	<1	2	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	0	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	41	60	127	385
Magnesium	ppm	4	7	0	0
Zinc	ppm	18	15	14	171
Phosphorus	ppm	803	647	800	928
Barium	ppm	0	0	0	0
Boron	ppm	7	12	28	12

#### Diagnosis

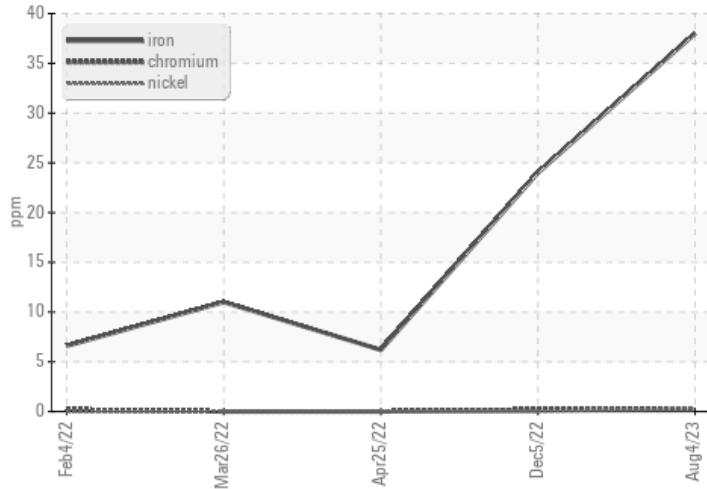
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008  
 Unique No: 10604531  
 Signed: Sean Felton  
 Report Date: 16 Aug 2023

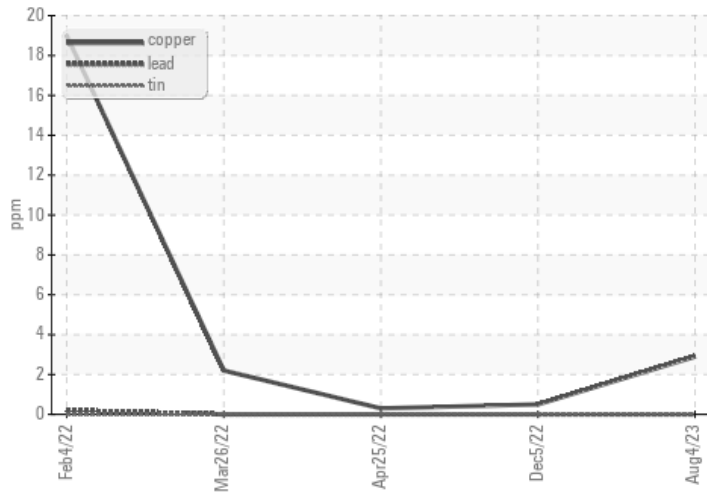


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

