

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH24 1251-107721 - Rear Differential

Sample No: LH0243998

Oil Type: LIEBHERR 20W40 GEAR PLUS



**POTOMAC METALS INC**  
 410 16TH AVENUE  
 RANSON, WV  
 US 25438  
 Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	<b>LH0243998</b>	LH0258003	LH0229672	LH0147676
Sample Date	<b>19 Jul 2023</b>	27 Apr 2023	13 Sep 2022	22 Mar 2022
Machine Hours	<b>8881</b>	8247	6696	5504
Oil Hours	<b>634</b>	826	1192	1113
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>188</b>	118	110	110
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T:  
F:



#### CONTAMINATION

Silicon	ppm	<b>2</b>	8	6	7
Sodium	ppm	<b>2</b>	1	0	1
Potassium	ppm	<b>0</b>	0	0	0

#### 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 higher than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	<b>4</b>	6	5	8
Copper	ppm	<b>0</b>	0	<1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	0	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



#### ADDITIVES

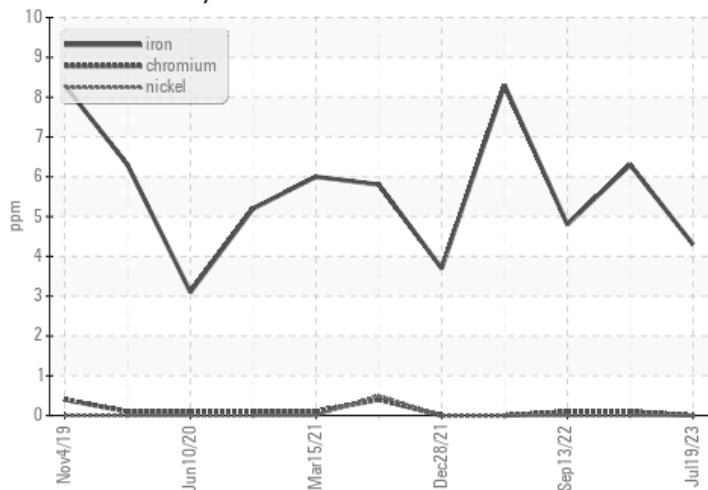
Calcium	ppm	<b>376</b>	3165	3040	3235
Magnesium	ppm	<b>5</b>	13	10	10
Zinc	ppm	<b>160</b>	1269	1287	1301
Phosphorus	ppm	<b>2214</b>	1180	1026	1144
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	62	29	46

**Depot:** POTRAN  
**Unique No:** 10608976  
**Signed:** Sean Felton  
**Report Date:** 21 Aug 2023

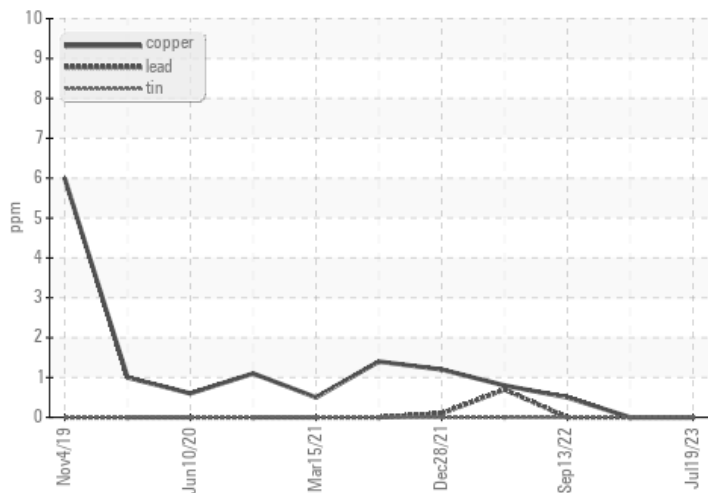


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C

