

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30 1200-79571 -Rear Differential

Sample No: LH0259171

Oil Type: CITGO PREMIUM GEAR 80W90



**ROCHESTER IRON AND METAL**  
 1552 EAST LUCAS ST  
 ROCHESTER, IN  
 US 46975  
 Contact: DERIK FISHBURN  
 derikf@rochesteriron.com  
 T: (574)223-4300  
 F:



#### SAMPLE INFORMATION

Sample Number	<b>LH0259171</b>	LHMC113639	LHMC113574	LHMC33043
Sample Date	<b>03 Oct 2023</b>	15 Nov 2018	02 Nov 2017	28 Nov 2016
Machine Hours	<b>12990</b>	7980	4279	2123
Oil Hours	<b>900</b>	250	250	1139
Oil Changed	<b>N/A</b>	Changed	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	<b>135.9</b>	136.1	139.0	118.6
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#### CONTAMINATION

Silicon	ppm	<b>2</b>	1	<1	<1
Sodium	ppm	<b>4</b>	2	1	3
Potassium	ppm	<b>&lt;1</b>	<1	21	0



#### WEAR METALS

Iron	ppm	<b>42</b>	12	4	3
Copper	ppm	<b>4</b>	<1	1	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>4</b>	4	5	5
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>34</b>	21	29	232
Magnesium	ppm	<b>2</b>	0	<1	<1
Zinc	ppm	<b>7</b>	2	7	128
Phosphorus	ppm	<b>682</b>	621	673	905
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	5	5	104

#### Diagnosis

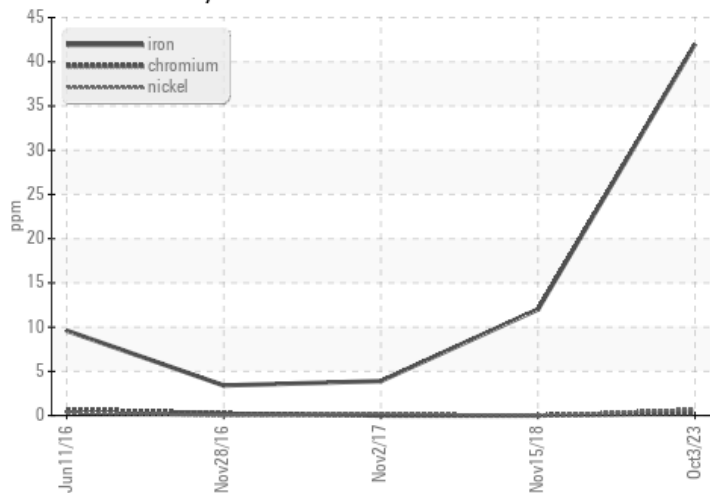
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** ROCROCLH  
**Unique No:** 10683021  
**Signed:** Doug Bogart  
**Report Date:** 05 Oct 2023

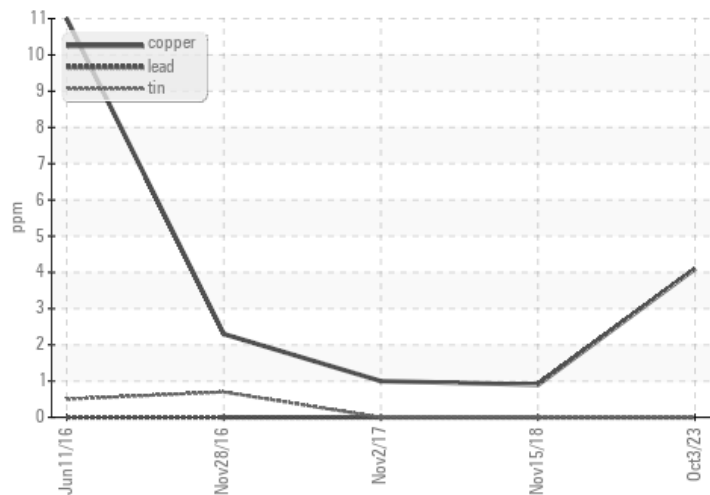


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

