

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 040770-1170 - Rear Differential

Sample No: LH0268672

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LH0268672</b>	LH0267400	LH0264335	LH0174206
Sample Date	<b>15 Feb 2024</b>	22 Nov 2023	08 Aug 2023	28 Apr 2023
Machine Hours	<b>10135</b>	9737	9297	8817
Oil Hours	<b>10135</b>	400	500	500
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

#### LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD  
 RALEIGH, NC  
 US 27603  
 Contact: Timothy Bailey  
 timothy.bailey@liebherr.com  
 T:  
 F: (919)329-0084



#### OIL CONDITION

Visc @ 40°C	cSt	● 182	● 184	● 191	● 191
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 3	● 2	● 3	● 2
Sodium	ppm	● 0	● 0	● 2	● 3
Potassium	ppm	● <1	● <1	● <1	● 2

#### 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.



#### WEAR METALS

Iron	ppm	● 74	● 61	● 104	● 96
Copper	ppm	● <1	● 0	● 2	● 1
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● 0	● <1	● 0	● 0
Aluminum	ppm	● 2	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● 1	● 1
Molybdenum	ppm	● 17	● 15	● 29	● 27
Nickel	ppm	● 0	● <1	● <1	● 1
Titanium	ppm	● 0	● 0	● 0	● 0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● <1	● <1	● 2	● 2
Vanadium	ppm	● 0	● 0	● 0	● 0



#### ADDITIVES

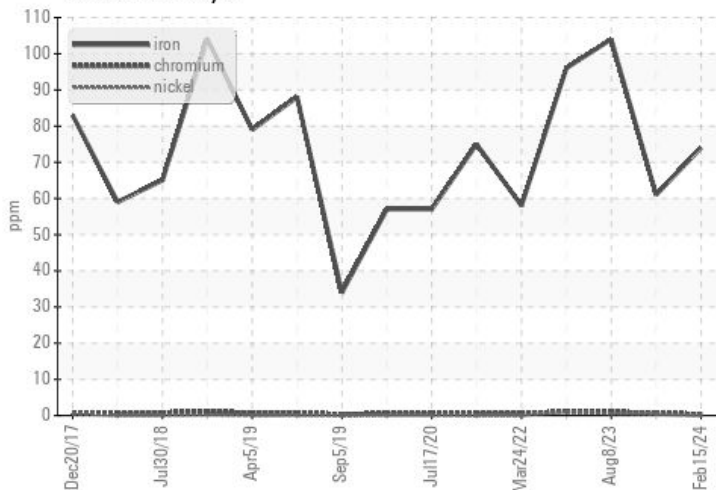
Calcium	ppm	● 16	● 14	● 32	● 31
Magnesium	ppm	● <1	● 1	● 1	● 1
Zinc	ppm	● 12	● 8	● 26	● 25
Phosphorus	ppm	● 2456	● 2628	● 2223	● 2477
Barium	ppm	● 0	● 0	● 2	● 0
Boron	ppm	● 0	● 2	● 5	● 4

Depot: LIEBHERRNC  
 Unique No: 10885384  
 Signed: Sean Felton  
 Report Date: 20 Feb 2024

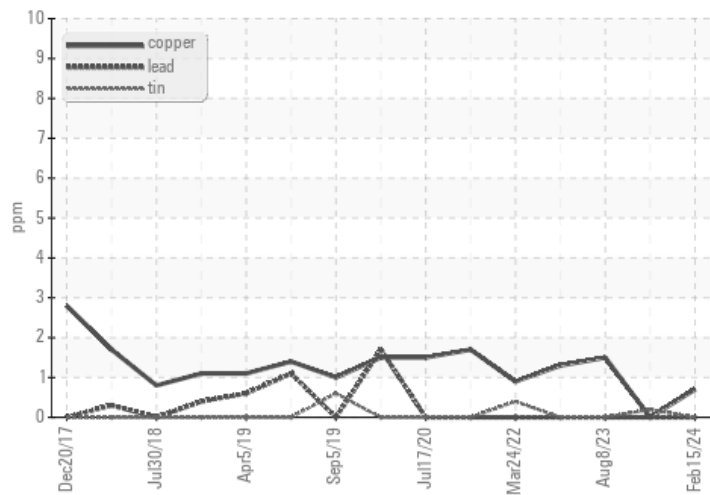


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

