

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 1414-52139 - Front Differential

Sample No: LH0264115

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0264115	---	---	---
Sample Date	11 Aug 2023	---	---	---
Machine Hours	2270	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**BINDERHOLZ**

260 PIPER LN

ENFIELD, NC

US 27823

Contact: ROBERT BULLOCK

robert.bullock@binderholz.com

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#### OIL CONDITION

Visc @ 40°C	cSt	● 192	---	---	---
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#### CONTAMINATION

Silicon	ppm	● 18	---	---	---
Sodium	ppm	● 6	---	---	---
Potassium	ppm	● <1	---	---	---



#### WEAR METALS

Iron	ppm	● 190	---	---	---
Copper	ppm	● 152	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● 7	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 24	---	---	---
Vanadium	ppm	● 0	---	---	---



#### ADDITIVES

Calcium	ppm	● 14	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 91	---	---	---
Phosphorus	ppm	● 2235	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

#### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: BINENF

Unique No: 10605052

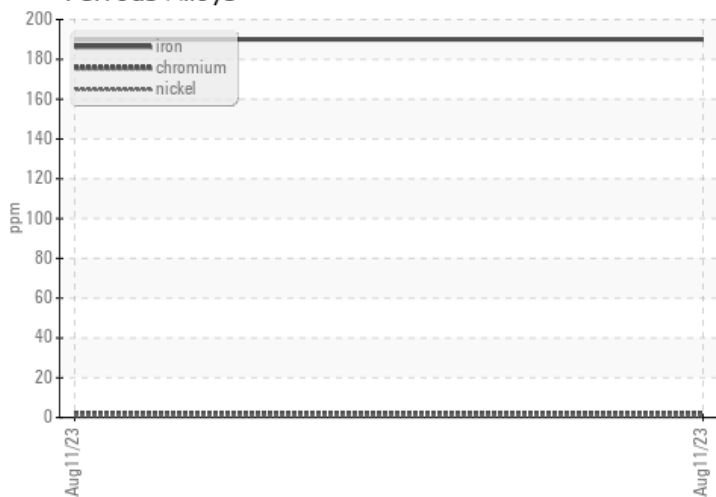
Signed: Sean Felton

Report Date: 16 Aug 2023



### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

