

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 040770-1170 - Front Differential

Sample No: LH0264336

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0264336	LH0174208	LH0216938	LH0204345
Sample Date	08 Aug 2023	28 Apr 2023	24 Mar 2022	14 Sep 2021
Machine Hours	9297	8817	7403	6606
Oil Hours	500	500	500	1000
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: TRAVIS EGAN
 travis.egan@liebherr.com
 T:
 F: (919)329-0084



OIL CONDITION

Visc @ 40°C	cSt	192	195	188	193
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CONTAMINATION

Silicon	ppm	7	5	3	2
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	2	0	0



WEAR METALS

Iron	ppm	276	203	114	119
Copper	ppm	4	3	2	4
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	3	3	1	1
Molybdenum	ppm	50	36	16	16
Nickel	ppm	<1	1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	3	2	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	48	41	33	32
Magnesium	ppm	5	4	<1	<1
Zinc	ppm	19	18	4	19
Phosphorus	ppm	2238	2445	2365	2293
Barium	ppm	2	0	0	0
Boron	ppm	2	4	6	17

Diagnosis

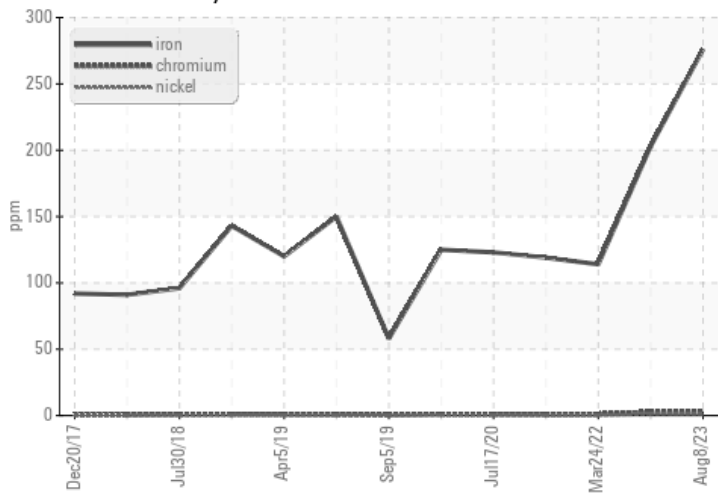
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRNC
 Unique No: 10602506
 Signed: Don Baldrige
 Report Date: 14 Aug 2023

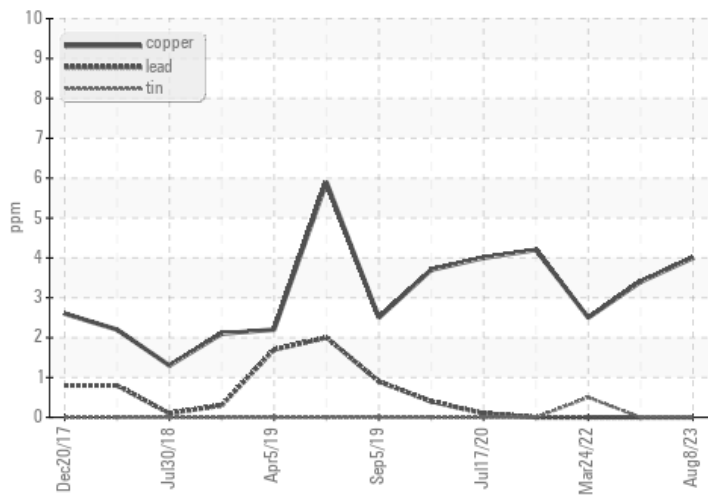


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

