

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 032994-461 - Rear Differential

Sample No: LH0264104

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0264104	LH0220134	LH0229351	LH0217508
Sample Date	06 Jul 2023	28 Feb 2023	12 Jul 2022	20 Mar 2022
Machine Hours	10350	9819	8606	8007
Oil Hours	500	1000	500	1000
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

TT & E IRON

1529 WEST GARNER RD
GARNER, NC
US 27529
Contact: MICHAEL STANCIL
culaterprowler@aol.com
T: (919)524-4326
F:



OIL CONDITION

Visc @ 40°C	cSt	● 188	● 185	● 185	● 189
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CONTAMINATION

Silicon	ppm	● 2	● 2	● 2	● 2
Sodium	ppm	● 0	● 2	● 2	● 0
Potassium	ppm	● 2	● 1	● 0	● 2



WEAR METALS

Iron	ppm	● 110	● 147	● 89	● 144
Copper	ppm	● 15	● 19	● 13	● 21
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● <1	● <1	● <1	● <1
Aluminum	ppm	● 0	● 1	● <1	● <1
Chromium	ppm	● <1	● 1	● <1	● <1
Molybdenum	ppm	● <1	● <1	● <1	● <1
Nickel	ppm	● 1	● 1	● 0	● 0
Titanium	ppm	● <1	● <1	● 0	● <1
Silver	ppm	● 0	● <1	● 0	● 0
Manganese	ppm	● 3	● 3	● 2	● 4
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 6	● 10	● 10	● 4
Magnesium	ppm	● 0	● <1	● <1	● 0
Zinc	ppm	● 8	● 11	● 11	● 3
Phosphorus	ppm	● 2259	● 2224	● 1938	● 2411
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● 8	● 14	● 9	● 13

Diagnosis

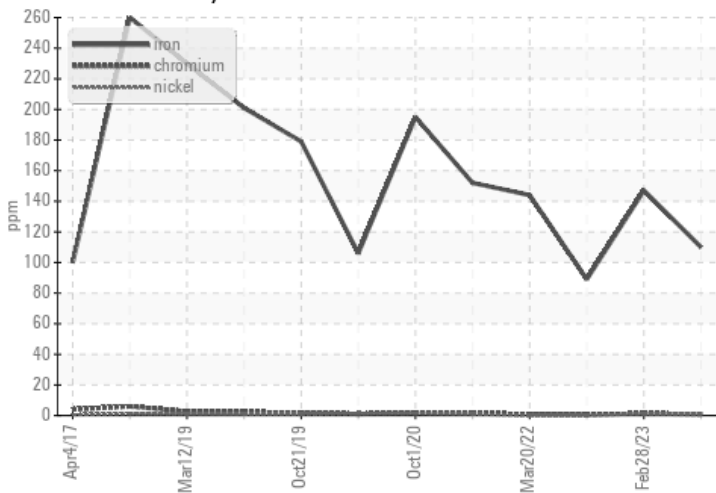
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: TTENEW
Unique No: 10561698
Signed: Don Baldrige
Report Date: 19 Jul 2023

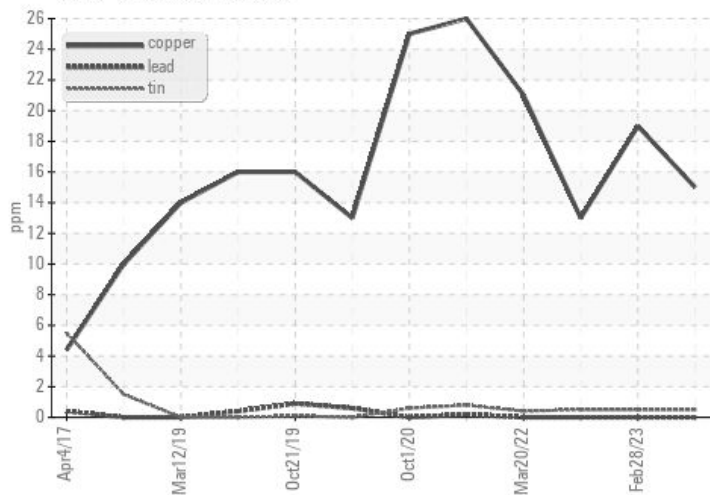


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

