

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944C038730-194 - Front Differential

Sample No: LH0264611

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH0264611	LH0258742	LH0264409	LH0185256
Sample Date	22 May 2024	14 Feb 2024	28 Jun 2023	29 Jan 2021
Machine Hours	31406	30984	29970	27384
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

ALTER METAL
 2080 SPINDT DR
 WAUPACA, WI
 US 54981
 Contact: BRAD DORMADY
 brad.dormady@altertrading.com
 T:
 F:



Oil Condition

Visc @ 40°C	cSt	123	121	143	172
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 0	● 0	● 1	● 6
Sodium	ppm	● 0	● 2	● 0	● 3
Potassium	ppm	● 1	● 0	● 4	● 11



Wear Metals

Iron	ppm	● 2	● 4	● 6	● 148
Copper	ppm	● 2	● 3	● 4	● 186
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● <1	● 0	● 0	● 0
Aluminum	ppm	● 1	● 0	● 0	● 6
Chromium	ppm	● <1	● 0	● 0	● 2
Molybdenum	ppm	● <1	● 0	● <1	● 2
Nickel	ppm	● <1	● 0	● 0	● 1
Titanium	ppm	● <1	● <1	● 0	● <1
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● 0	● 0	● <1	● 10
Vanadium	ppm	● 0	● 0	● 0	● 0



Additives

Calcium	ppm	● 9	● 36	● 26	● 116
Magnesium	ppm	● 3	● 2	● 5	● 0
Zinc	ppm	● 11	● 11	● 21	● 181
Phosphorus	ppm	● 938	● 673	● 646	● 823
Barium	ppm	● 0	● 0	● 2	● 0
Boron	ppm	● 16	● <1	● 5	● 5

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

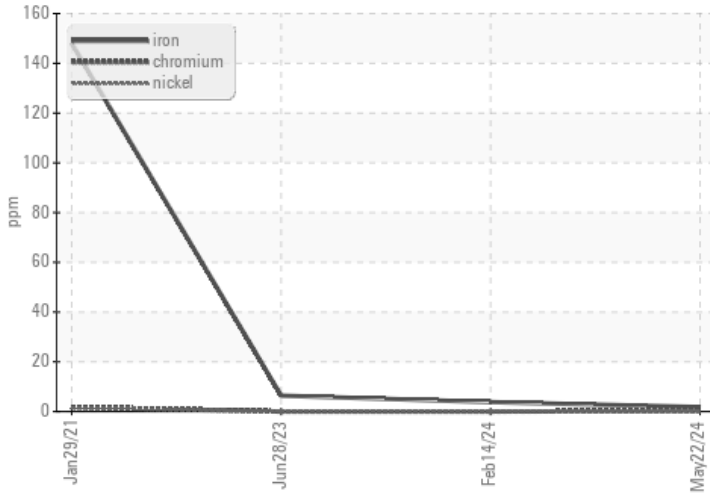
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTWAUWI
 Unique No: 11060540
 Signed: Wes Davis
 Report Date: 04 Jun 2024

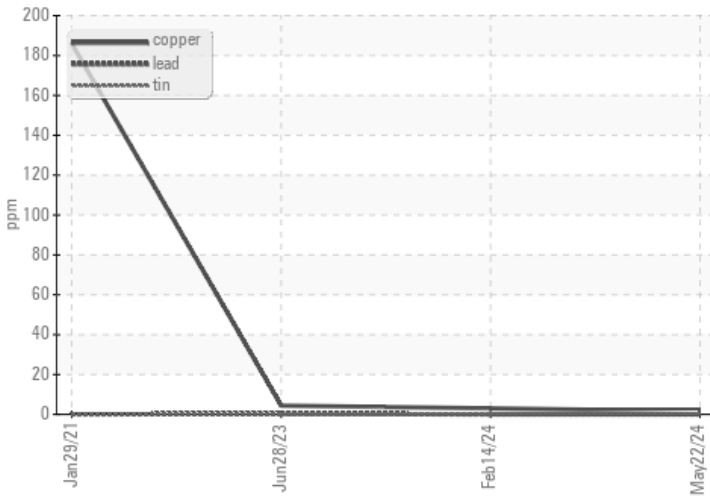


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

