

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944C038730-194 - Front Left Wheel Hub

Sample No: LH0264617

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH0264617	LH0258823	LH0264406	LH0185259
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	SEVERE

ALTER METAL

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



Oil Condition

Visc @ 40°C	cSt	124	124	142	164
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	2	21
Sodium	ppm	0	2	0	8
Potassium	ppm	1	0	5	9



Wear Metals

Iron	ppm	20	38	51	863
Copper	ppm	5	10	16	223
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	0	<1	13
Chromium	ppm	<1	0	<1	10
Molybdenum	ppm	<1	0	<1	5
Nickel	ppm	<1	0	0	3
Titanium	ppm	<1	<1	<1	2
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	2	13
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	15	33	37	122
Magnesium	ppm	4	2	9	7
Zinc	ppm	19	12	45	242
Phosphorus	ppm	968	666	692	837
Barium	ppm	0	0	2	0
Boron	ppm	15	4	21	28

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.

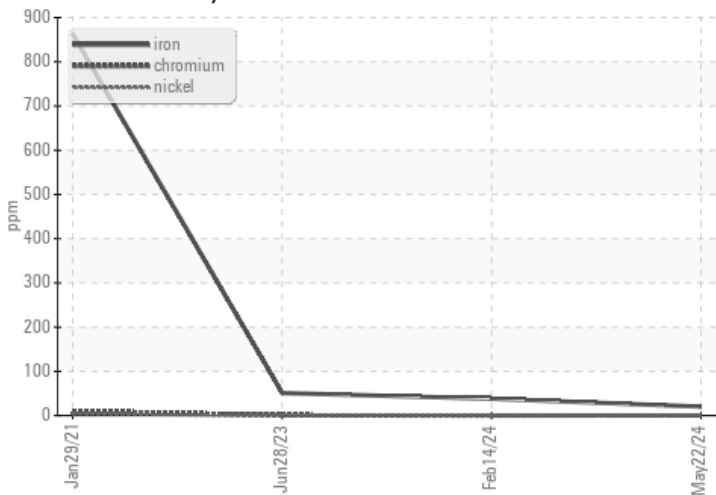
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTWAUWI
 Unique No: 11060545
 Signed: Wes Davis
 Report Date: 04 Jun 2024

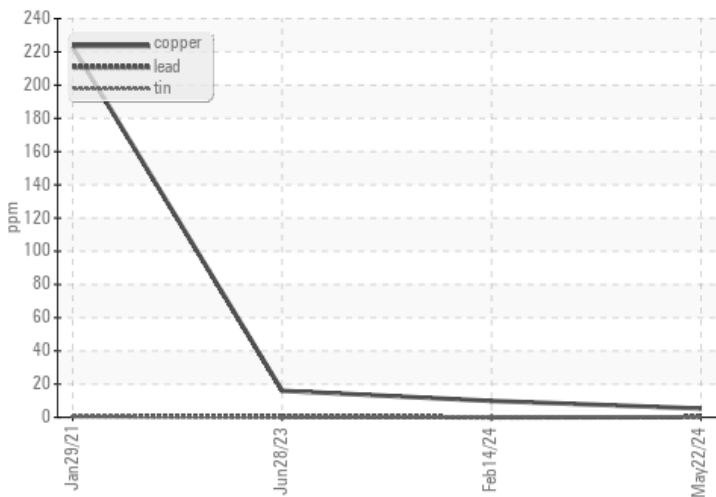


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

