

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 061188-1419 - Front Differential

Sample No: LH0272392

Oil Type: GEAR OIL SAE 80W90



NORTHERN METAL RECYCLING
 2800 PACIFIC ST N
 MINNEAPOLIS, MN
 US 55411
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Sample Information

Sample Number	LH0272392	LH0253881	LH0220537	LH0220571
Sample Date	30 Jan 2024	21 Sep 2023	23 Nov 2022	27 Sep 2022
Machine Hours	28174	27222	25468	0
Oil Hours	0	0	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	124	155	153	155
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	<1	<1	<1
Sodium	ppm	0	1	2	0
Potassium	ppm	2	1	0	0



Wear Metals

Iron	ppm	16	0	2	4
Copper	ppm	9	<1	1	2
Lead	ppm	1	0	0	0
Tin	ppm	1	0	0	<1
Aluminum	ppm	2	0	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	0	2	2
Nickel	ppm	1	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	24	26	18	23
Magnesium	ppm	4	9	5	5
Zinc	ppm	12	15	3	12
Phosphorus	ppm	876	1421	1041	1224
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	4	4

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.

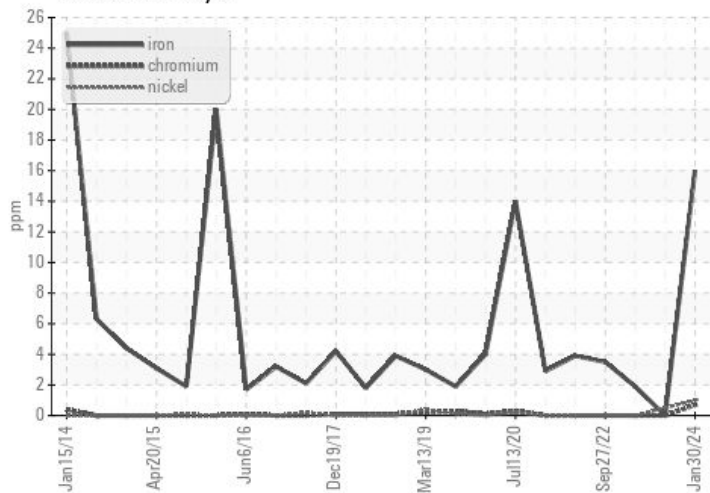
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NORMINLH
 Unique No: 10995345
 Signed: Wes Davis
 Report Date: 25 Apr 2024

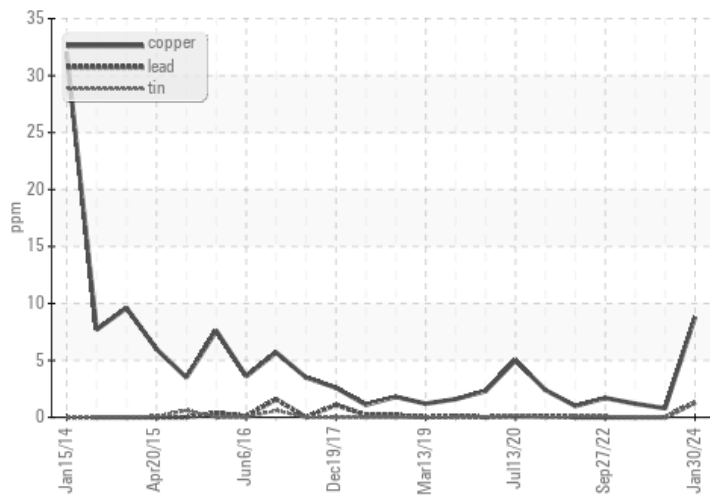


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

