

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 061188-1419 - Front Left Wheel Hub

Sample No: LH0272401

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	LH0272401	LH0253887	LH0253901	LH0236048
Sample Date	30 Jan 2024	21 Sep 2023	13 Jul 2023	23 Nov 2022
Machine Hours	28174	27222	26744	25468
Oil Hours	1000	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	127	143	152	150
		●	●	●	●



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 2	● <1	● 0	● 1
Sodium	ppm	● 0	● 2	● 2	● 2
Potassium	ppm	● 3	● 2	● 1	● 1



Wear Metals

Iron	ppm	● 17	● 10	● 11	● 14
Copper	ppm	● 1	● 0	● <1	● <1
Lead	ppm	● 1	● 0	● 0	● 0
Tin	ppm	● 1	● 0	● 0	● 0
Aluminum	ppm	● 2	● 0	● 0	● 0
Chromium	ppm	● <1	● 0	● 0	● 0
Molybdenum	ppm	● 2	2	● 2	● 2
Nickel	ppm	● 1	● 0	● 0	● 0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	● <1	0	● <1	● <1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	● 40	32	● 33	● 23
Magnesium	ppm	● 6	8	● 9	● 8
Zinc	ppm	● 20	20	● 15	● 5
Phosphorus	ppm	● 939	981	● 1416	● 944
Barium	ppm	● <1	0	● 0	● 0
Boron	ppm	● 8	9	● 10	● 13

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.

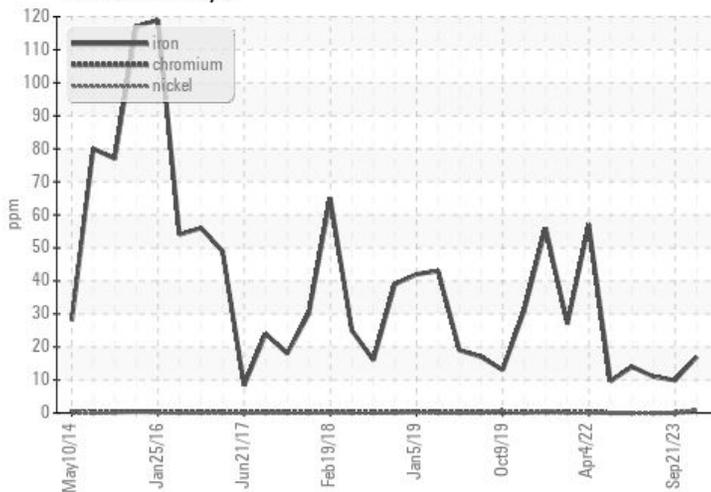
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NORMINLH
 Unique No: 10995352
 Signed: Wes Davis
 Report Date: 25 Apr 2024

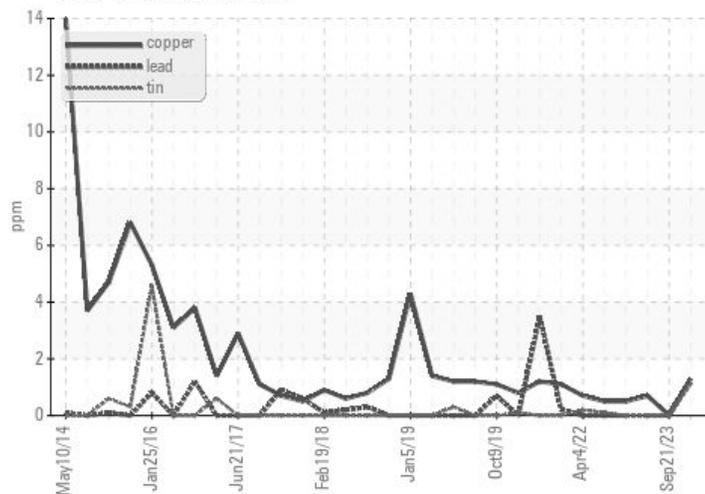


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

