

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 047548-1007 - Rear Left Wheel Hub

Sample No: LH0266988

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	LH0266988	LH0220525	LH0220547	LH0190680
Sample Date	17 May 2024	30 May 2023	07 Nov 2022	01 Sep 2021
Machine Hours	33496	31696	30241	28529
Oil Hours	1000	1000	1000	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	137	139	147	193
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	3	1
Sodium	ppm	2	<1	1	3
Potassium	ppm	0	<1	0	11



Wear Metals

Iron	ppm	12	12	20	6
Copper	ppm	2	2	6	3
Lead	ppm	0	0	0	3
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	2	1	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



Additives

Calcium	ppm	35	58	79	3
Magnesium	ppm	0	14	12	0
Zinc	ppm	11	26	10	5
Phosphorus	ppm	981	879	910	2112
Barium	ppm	0	0	0	0
Boron	ppm	6	9	17	33

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.

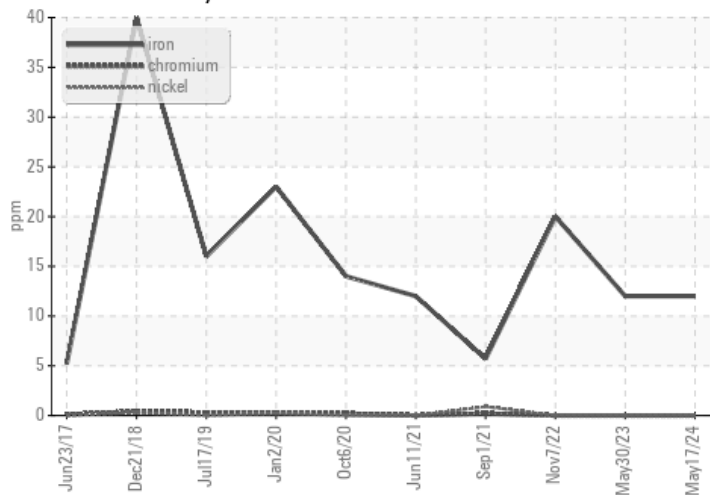
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NORMINLH
 Unique No: 11061719
 Signed: Wes Davis
 Report Date: 05 Jun 2024

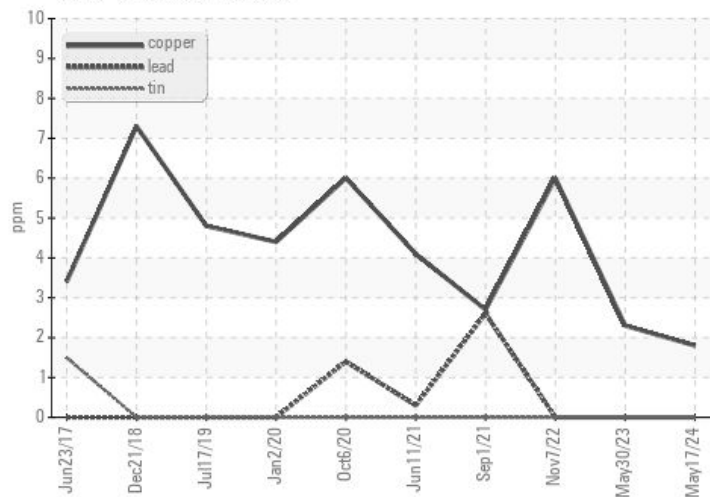


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

