

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 045480-1007 - Front Left Wheel Hub

Sample No: LH0263945

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	LH0263945	LHMC142202	LHMC106324	---
Sample Date	19 Dec 2023	03 May 2019	02 Jun 2017	---
Machine Hours	31068	22895	17893	---
Oil Hours	2000	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	138	332	325.4	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	5	5	6	---
Sodium	ppm	4	1	2	---
Potassium	ppm	0	9	2	---



WEAR METALS

Iron	ppm	51	25	13	---
Copper	ppm	8	<1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	2	2	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	97	55	46	---
Magnesium	ppm	13	7	3	---
Zinc	ppm	43	25	31	---
Phosphorus	ppm	1046	983	848	---
Barium	ppm	0	0	0	---
Boron	ppm	151	161	137	---

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.

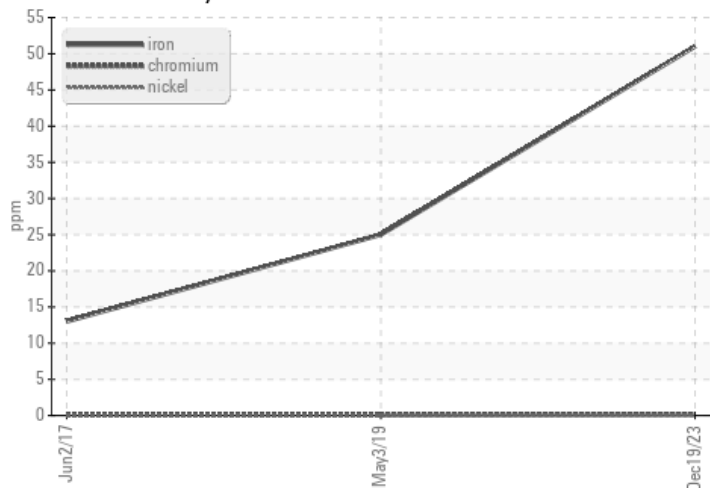
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NORMINLH
 Unique No: 10844612
 Signed: Wes Davis
 Report Date: 23 Jan 2024

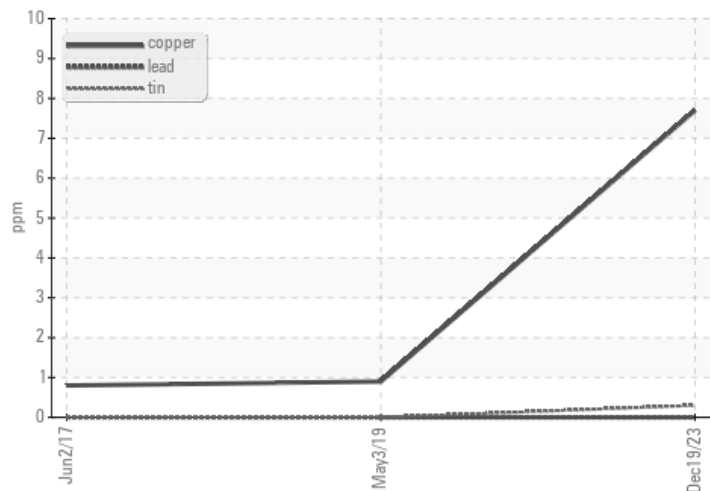


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

