

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 045480-1007 - Rear Left Wheel Hub

Sample No: LH0263943

Oil Type: GEAR OIL LS 80W90



NORTHERN METAL RECYCLING
 2800 PACIFIC ST N
 MINNEAPOLIS, MN
 US 55411
 Contact: CHRIS GILMER
 chris.gilmer@emrgroup.com
 T: (612)305-7338
 F:



SAMPLE INFORMATION

Sample Number	LH0263943	LHMC142263	LHMC106329	---
Sample Date	19 Dec 2023	03 May 2019	02 Jun 2017	---
Machine Hours	31068	22895	17931	---
Oil Hours	2000	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	118	329	293.3	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	3	4	5	---
Sodium	ppm	2	1	2	---
Potassium	ppm	0	8	2	---



WEAR METALS

Iron	ppm	30	13	6	---
Copper	ppm	17	2	3	---
Lead	ppm	0	0	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	0	<1	1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	2	1	1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	3	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	120	53	117	---
Magnesium	ppm	21	3	5	---
Zinc	ppm	74	21	62	---
Phosphorus	ppm	1275	962	846	---
Barium	ppm	0	0	<1	---
Boron	ppm	172	159	149	---

Diagnosis

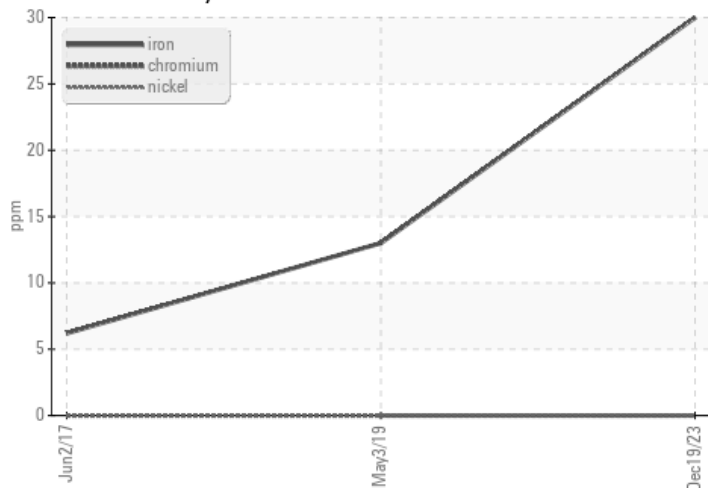
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: NORMINLH
 Unique No: 10844585
 Signed: Don Baldrige
 Report Date: 24 Jan 2024

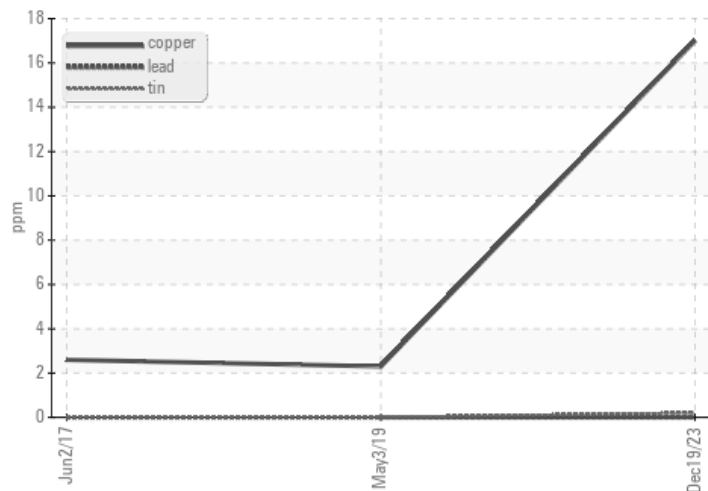


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

