

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Rear Right Wheel Hub

Sample No: LH0272488

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0272488	LH0254791	LH0243161	---
Sample Date	30 Oct 2023	14 Apr 2023	11 Jan 2023	---
Machine Hours	1993	1008	473	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	122	132	154	---
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CONTAMINATION

Silicon	ppm	<1	3	10	---
Sodium	ppm	2	2	3	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	23	25	33	---
Copper	ppm	6	4	8	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	<1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	1	2	---
Nickel	ppm	0	0	0	---
Titanium	ppm	1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	33	105	172	---
Magnesium	ppm	10	16	2	---
Zinc	ppm	26	64	31	---
Phosphorus	ppm	624	874	1280	---
Barium	ppm	0	0	0	---
Boron	ppm	3	4	4	---

Diagnosis

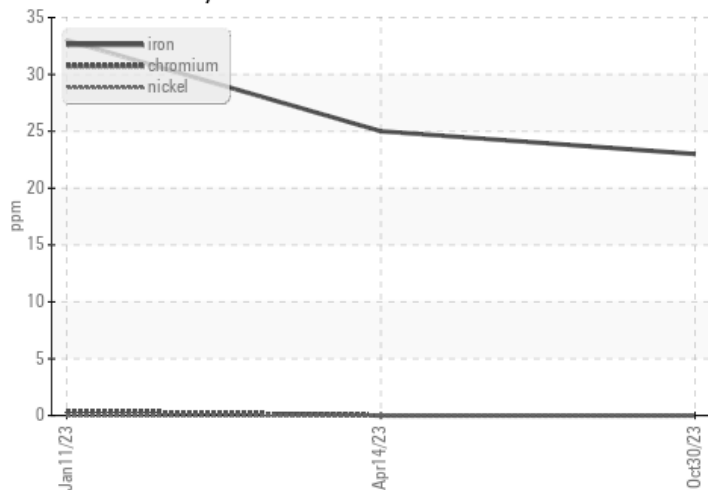
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10728452
Signed: Sean Felton
Report Date: 08 Nov 2023

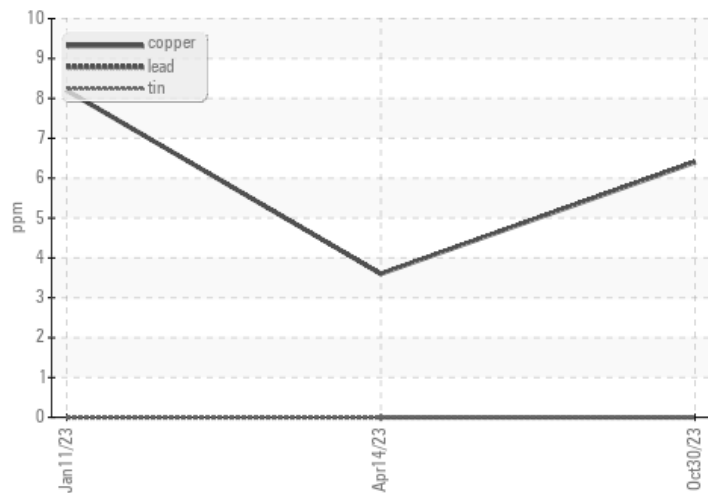


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

