

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944 038730-194 - Front Right Final Drive

Sample No: LH0258745

Oil Type: GEAR OIL SAE 80W90



ALTER METAL
 2080 SPINDT DR
 WAUPACA, WI
 US 54981
 Contact: BRAD DORMADY
 brad.dormady@altertrading.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0258745	LH0264405	LH0185260	---
Sample Date	15 Feb 2024	28 Jun 2023	29 Jan 2021	---
Machine Hours	30984	29970	27384	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	SEVERE	---



OIL CONDITION

Visc @ 40°C	cSt	● 124	● 142	● 169	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	● <1	● 2	● 19	---
Sodium	ppm	● 2	● 0	● 8	---
Potassium	ppm	● 0	● 5	● 8	---



WEAR METALS

Iron	ppm	● 29	● 48	● 928	---
Copper	ppm	● 6	● 9	● 141	---
Lead	ppm	● 0	● 0	● 1	---
Tin	ppm	● 0	● 0	● <1	---
Aluminum	ppm	● 0	● <1	● 11	---
Chromium	ppm	● 0	● <1	● 11	---
Molybdenum	ppm	● 0	● <1	● 4	---
Nickel	ppm	● 0	0	● 3	---
Titanium	ppm	● <1	0	● 1	---
Silver	ppm	● 0	0	● <1	---
Manganese	ppm	● <1	● <1	● 12	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	● 34	● 34	● 115	---
Magnesium	ppm	● 1	● 6	● 6	---
Zinc	ppm	● 10	● 26	● 185	---
Phosphorus	ppm	● 670	● 718	● 805	---
Barium	ppm	● 0	● 2	● 0	---
Boron	ppm	● 4	● 21	● 22	---

Diagnosis

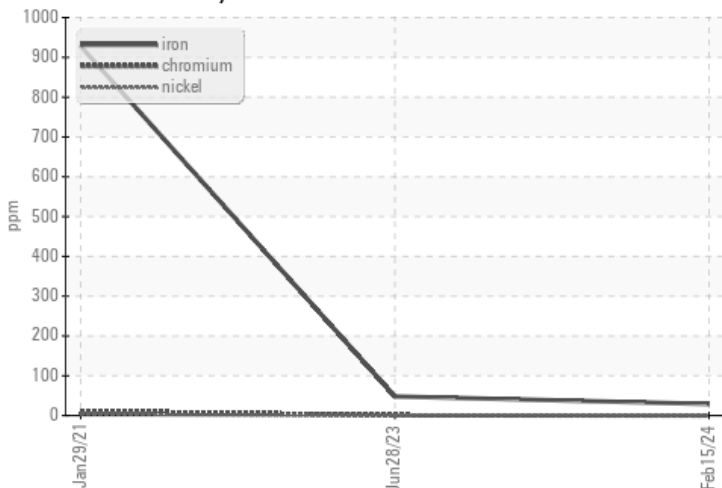
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTWAUWI
 Unique No: 10896928
 Signed: Wes Davis
 Report Date: 26 Feb 2024

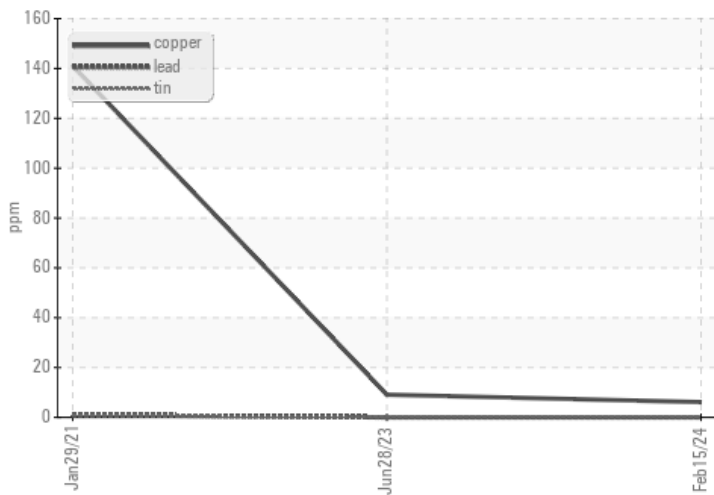


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

