

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944 038730-194 - Rear Right Final Drive

Sample No: LH0264402

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	LH0264402	LH0185257	---	---
Sample Date	28 Jun 2023	29 Jan 2021	---	---
Machine Hours	29970	27384	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 141	● 145	---	---
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CONTAMINATION

Silicon	ppm	● 2	● 4	---	---
Sodium	ppm	● 1	● 3	---	---
Potassium	ppm	● 4	● 2	---	---



WEAR METALS

Iron	ppm	● 28	● 134	---	---
Copper	ppm	● 8	● 64	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● <1	● <1	---	---
Aluminum	ppm	● <1	● 3	---	---
Chromium	ppm	● <1	● 1	---	---
Molybdenum	ppm	● <1	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	● 0	● <1	---	---
Silver	ppm	● 0	● <1	---	---
Manganese	ppm	● 1	● 3	---	---
Vanadium	ppm	● 0	● 0	---	---



ADDITIVES

Calcium	ppm	● 40	● 24	---	---
Magnesium	ppm	● 10	● 2	---	---
Zinc	ppm	● 37	● 53	---	---
Phosphorus	ppm	● 805	● 933	---	---
Barium	ppm	● 2	● 0	---	---
Boron	ppm	● 16	● 120	---	---

Diagnosis

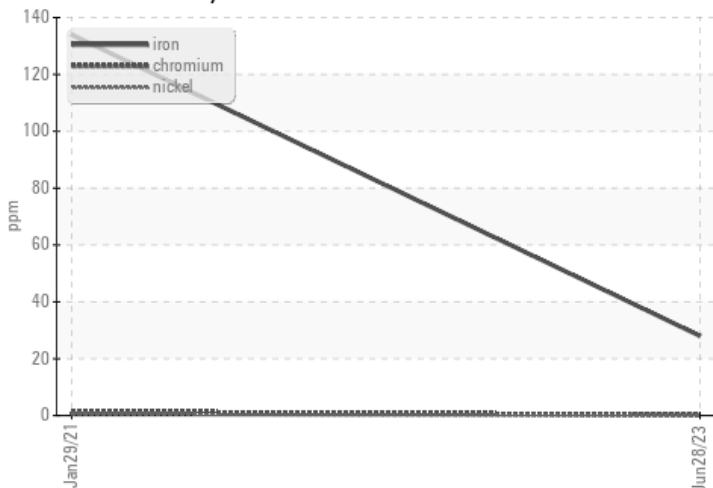
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALTWAUWI
 Unique No: 10546770
 Signed: Angela Borella
 Report Date: 07 Jul 2023

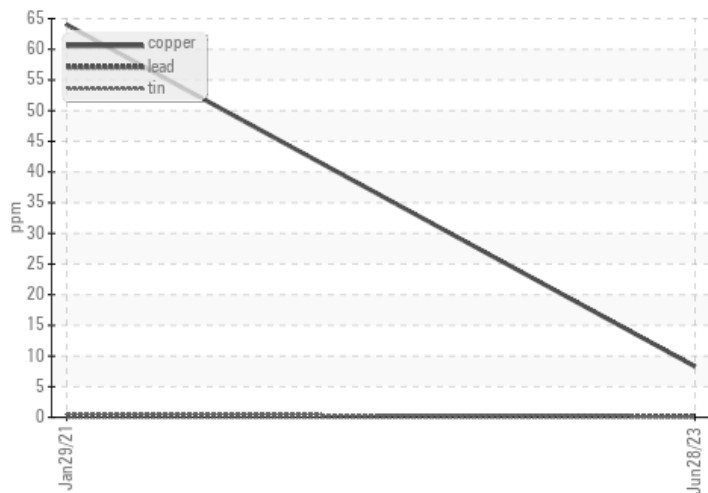


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

