

LIEBHERR

CONSTRUCTION EQUIPMENT



SAKAI SW844 3SW79-40259 - Rear Differential

Sample No: LH0258842
 Oil Type: GEAR OIL SAE 90



SAMPLE INFORMATION

Sample Number	LH0258842	LH0254425	---	---
Sample Date	07 Feb 2024	25 Jul 2023	---	---
Machine Hours	0	102	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

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 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
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OIL CONDITION

Visc @ 40°C	cSt	● 125	● 133	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 17	● 5	---	---
Sodium	ppm	● 1	● <1	---	---
Potassium	ppm	● 5	● 2	---	---

Diagnosis

Resample at the next service interval to monitor. An increase in the iron level is noted. All other 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.



WEAR METALS

Iron	ppm	● 294	● 10	---	---
Copper	ppm	● 2	● <1	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● 3	● <1	---	---
Chromium	ppm	● 3	● 0	---	---
Molybdenum	ppm	● 3	● 0	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	2	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 2	● 0	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

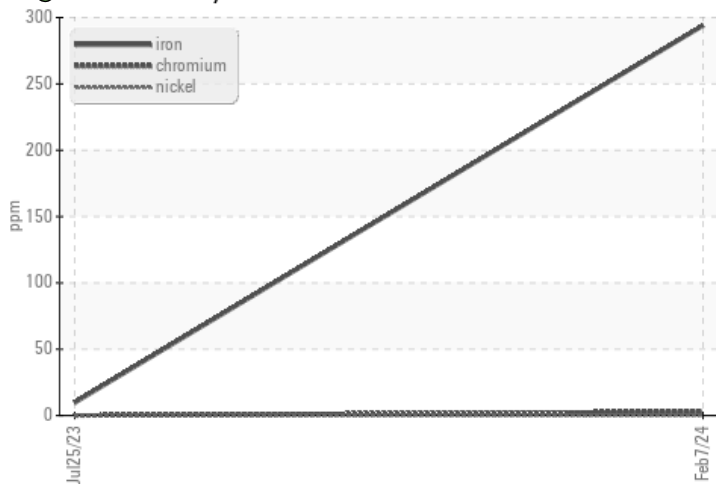
Calcium	ppm	● 45	● 4	---	---
Magnesium	ppm	● 21	● 2	---	---
Zinc	ppm	● 18	0	---	---
Phosphorus	ppm	478	● 1009	---	---
Barium	ppm	● 9	● 0	---	---
Boron	ppm	● 5	● 189	---	---

Depot: LEC0033
 Unique No: 10877180
 Signed: Don Baldrige
 Report Date: 16 Feb 2024

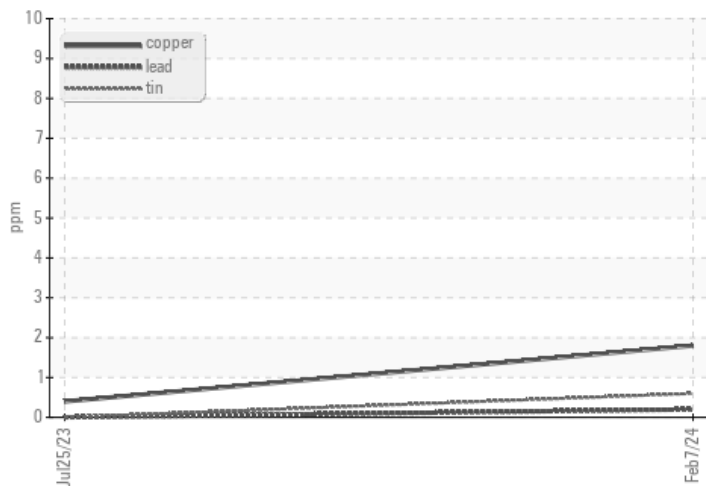


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

