

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936LC 047283-1490 - Swing Drive

Sample No: LH0272865

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0272865	LH0258970	LH0217253	---
Sample Date	11 Feb 2024	13 Oct 2023	21 May 2022	---
Machine Hours	3939	3494	708	---
Oil Hours	0	0	708	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	SEVERE	NORMAL	ABNORMAL	---

M&F CONCRETE PRODUCTS CO
 4002 CATLETT RD
 CATLETT, VA
 US 20119
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	221	107	197	---
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	0.728	---
Silicon	ppm	7	8	4	---
Sodium	ppm	0	5	5	---
Potassium	ppm	1	24	<1	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	1592	140	1019	---
Copper	ppm	1036	13	263	---
Lead	ppm	1	0	<1	---
Tin	ppm	15	0	14	---
Aluminum	ppm	2	7	3	---
Chromium	ppm	18	1	8	---
Molybdenum	ppm	2	0	2	---
Nickel	ppm	4	2	1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	13	2	8	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

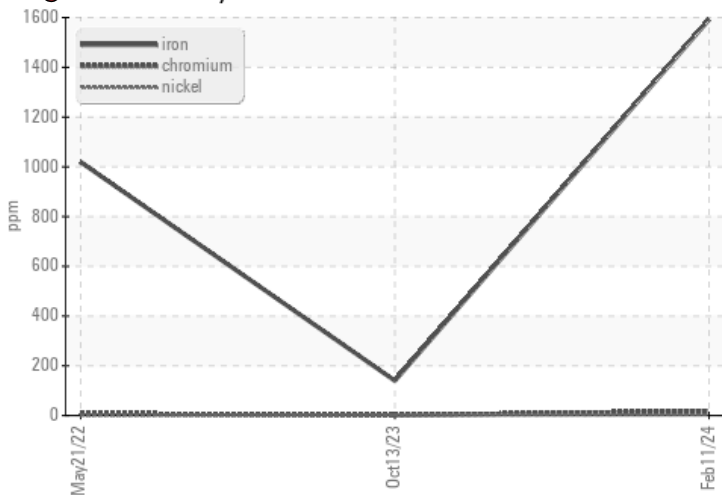
Calcium	ppm	21	647	39	---
Magnesium	ppm	1	5	<1	---
Zinc	ppm	61	429	222	---
Phosphorus	ppm	1973	1411	1315	---
Barium	ppm	1	0	4	---
Boron	ppm	1	7	4	---

Depot: MECCAT
 Unique No: 10941464
 Signed: Sean Felton
 Report Date: 27 Mar 2024

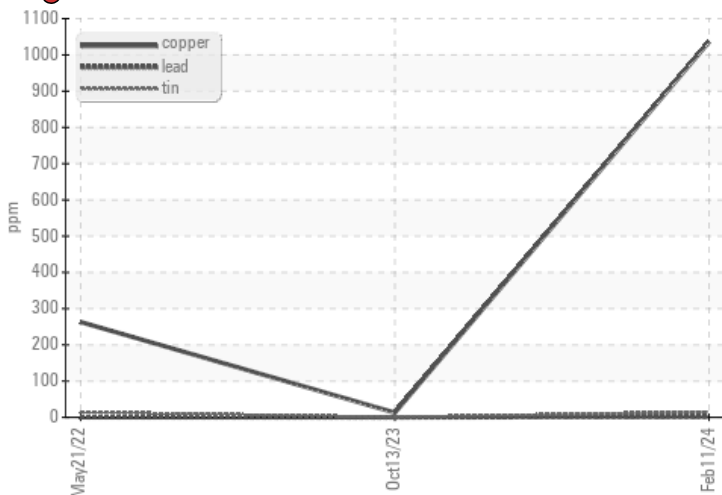


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

