

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936LC 047283-1490 - Swing Drive

Sample No: LH0258970

Oil Type: LIEBHERR GEAR BASIC 90 LS



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



SAMPLE INFORMATION

Sample Number	LH0258970	LH0217253	---	---
Sample Date	13 Oct 2023	21 May 2022	---	---
Machine Hours	3494	708	---	---
Oil Hours	0	708	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 107	● 197	---	---
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T:
F:



CONTAMINATION

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

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.



WEAR METALS

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



ADDITIVES

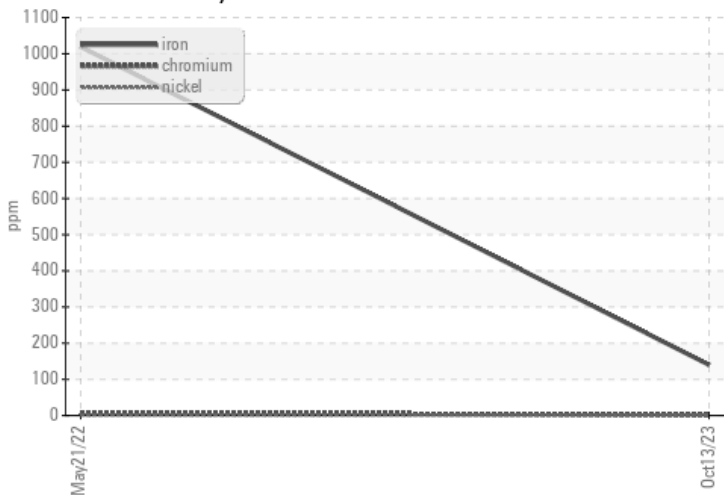
Calcium	ppm	● 647	● 39	---	---
Magnesium	ppm	● 5	● <1	---	---
Zinc	ppm	● 429	222	---	---
Phosphorus	ppm	● 1411	● 1315	---	---
Barium	ppm	● 0	● 4	---	---
Boron	ppm	● 7	● 4	---	---

Depot: MECCAT
 Unique No: 10778739
 Signed: Don Baldrige
 Report Date: 11 Dec 2023

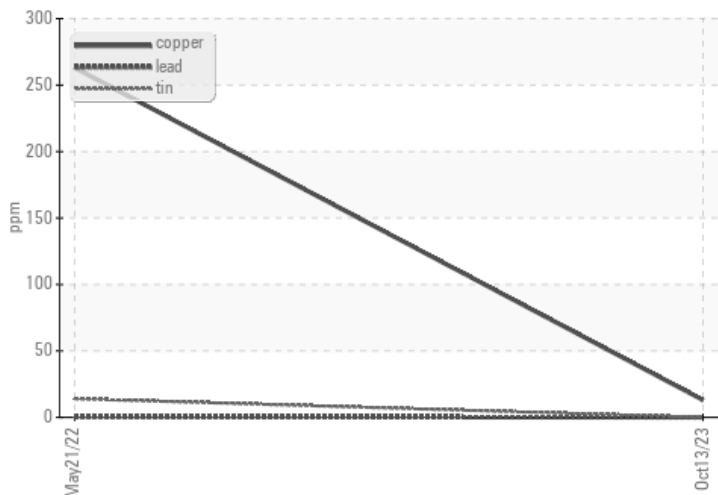


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

