

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050886-1650 - Swing Drive

Sample No: LH0258264

Oil Type: LIEBHERR GEAR BASIC 90 LS



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

T:
 F:

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.



SAMPLE INFORMATION

Sample Number	LH0258264	LH0258964	LH0243980	---
Sample Date	08 Oct 2023	09 Aug 2023	31 Jan 2023	---
Machine Hours	431	1993	575	---
Oil Hours	0	1993	575	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	197	237	195.7	---
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CONTAMINATION

Water	%	NEG	0.722	NEG	---
Silicon	ppm	9	6	4	---
Sodium	ppm	6	2	3	---
Potassium	ppm	15	0	2	---



WEAR METALS

Iron	ppm	69	1364	697	---
Copper	ppm	<1	0	<1	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	<1	1	---
Chromium	ppm	1	20	10	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	13	8	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

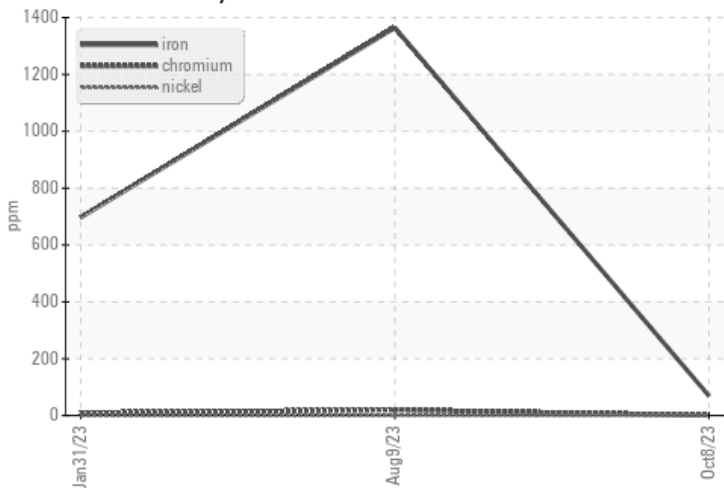
Calcium	ppm	11	42	10	---
Magnesium	ppm	0	3	4	---
Zinc	ppm	16	32	25	---
Phosphorus	ppm	1569	1962	1317	---
Barium	ppm	5	4	2	---
Boron	ppm	0	<1	1	---

Depot: MECCAT
 Unique No: 10778745
 Signed: Don Baldrige
 Report Date: 11 Dec 2023

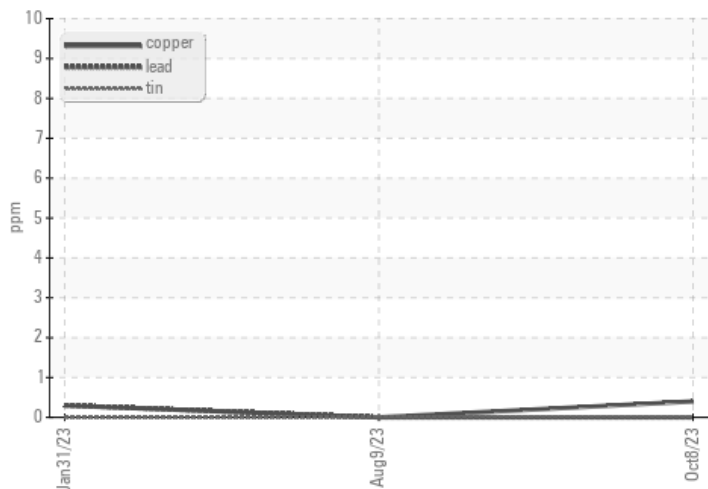


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

