

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050886-1650 - Left Final Drive

Sample No: LH0267315

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0267315	LH0258266	LH0258967	LH0254076
Sample Date	19 Dec 2023	08 Oct 2023	09 Aug 2023	02 Apr 2023
Machine Hours	2998	431	1993	1018
Oil Hours	0	0	1993	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	309	205	188	193
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	5	12
Sodium	ppm	<1	6	2	5
Potassium	ppm	<1	18	<1	5

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 oil viscosity is higher than normal.



WEAR METALS

Iron	ppm	32	62	63	163
Copper	ppm	0	9	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	1	2
Chromium	ppm	<1	<1	<1	3
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

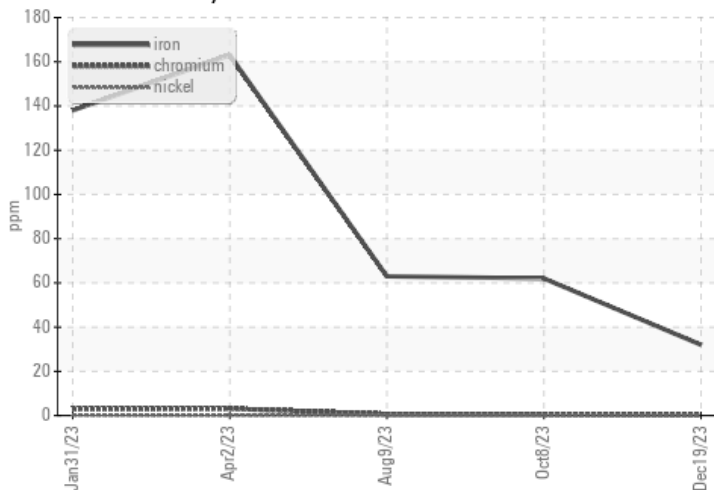
Calcium	ppm	5	19	24	29
Magnesium	ppm	0	<1	3	2
Zinc	ppm	<1	38	23	27
Phosphorus	ppm	1332	1230	2067	1341
Barium	ppm	0	11	0	9
Boron	ppm	0	2	0	2

Depot: MECCAT
 Unique No: 10831887
 Signed: Don Baldrige
 Report Date: 16 Jan 2024

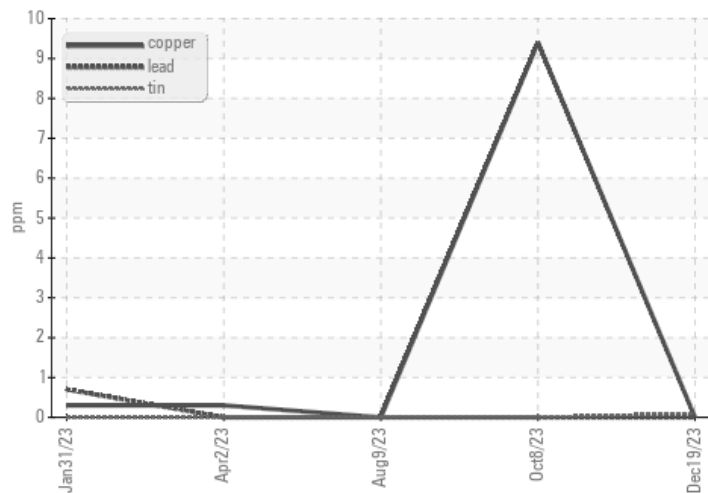


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

