

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050886-1650 - Right Final Drive

Sample No: LH0267314

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0267314	LH0258265	LH0258966	LH0254074
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	N/A	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	352	206	193	196
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	4	8	25
Sodium	ppm	<1	6	3	5
Potassium	ppm	<1	18	1	6

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	40	47	88	145
Copper	ppm	0	0	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	1	6
Chromium	ppm	<1	<1	2	3
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

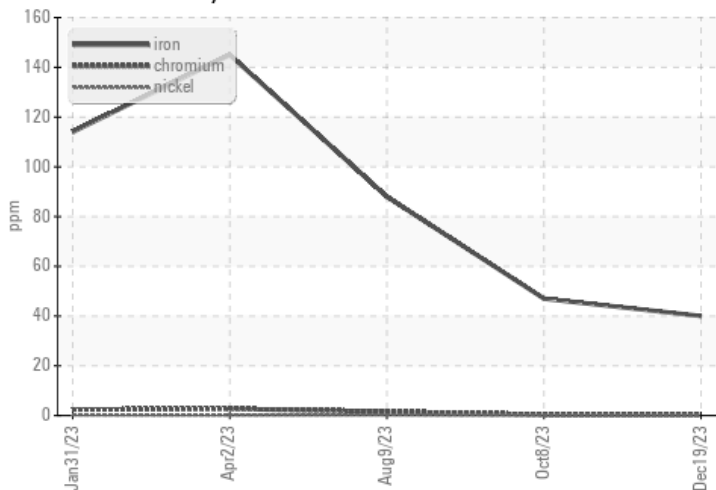
Calcium	ppm	2	16	26	44
Magnesium	ppm	0	0	4	3
Zinc	ppm	0	25	37	29
Phosphorus	ppm	1423	1219	2284	1338
Barium	ppm	0	11	4	10
Boron	ppm	0	<1	1	2

Depot: MECCAT
Unique No: 10831877
Signed: Don Baldrige
Report Date: 16 Jan 2024

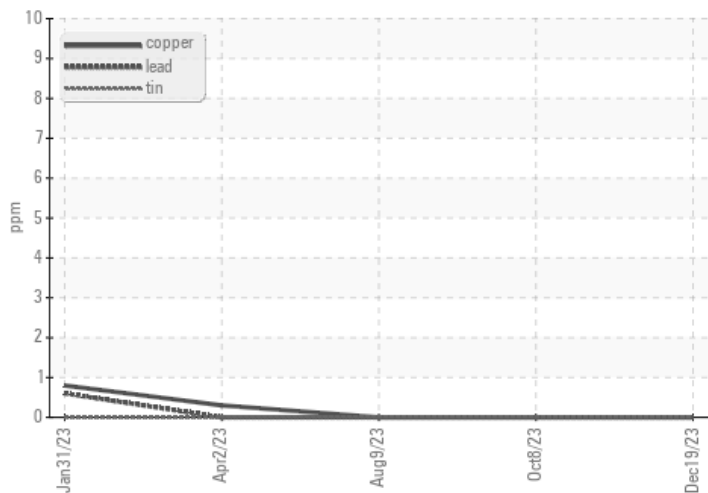


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

