

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050886-1650 - Left Final Drive

Sample No: LH0258266

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0258266	LH0258967	LH0254076	LH0243982
Sample Date	08 Oct 2023	09 Aug 2023	02 Apr 2023	31 Jan 2023
Machine Hours	431	1993	1018	575
Oil Hours	0	1993	0	575
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	205	188	193	196
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	5	12	12
Sodium	ppm	6	2	5	6
Potassium	ppm	18	<1	5	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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	62	63	163	138
Copper	ppm	9	0	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	1	2	4
Chromium	ppm	<1	<1	3	3
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	2	3
Vanadium	ppm	<1	0	0	0



ADDITIVES

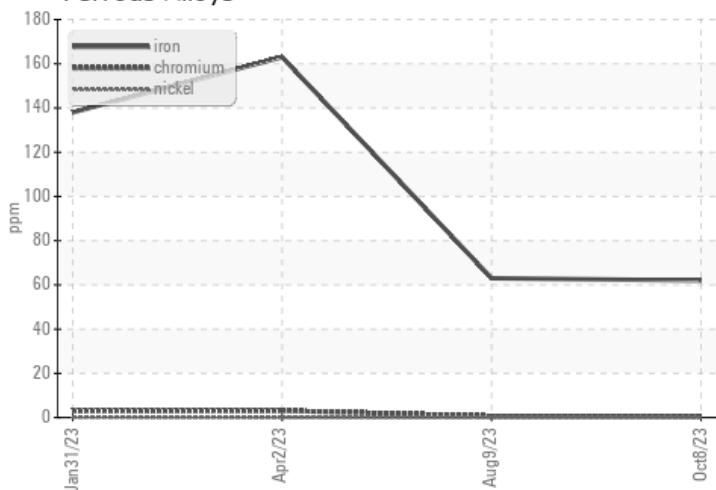
Calcium	ppm	19	24	29	28
Magnesium	ppm	<1	3	2	5
Zinc	ppm	38	23	27	36
Phosphorus	ppm	1230	2067	1341	1267
Barium	ppm	11	0	9	8
Boron	ppm	2	0	2	3

Depot: MECCAT
 Unique No: 10778743
 Signed: Don Baldrige
 Report Date: 11 Dec 2023

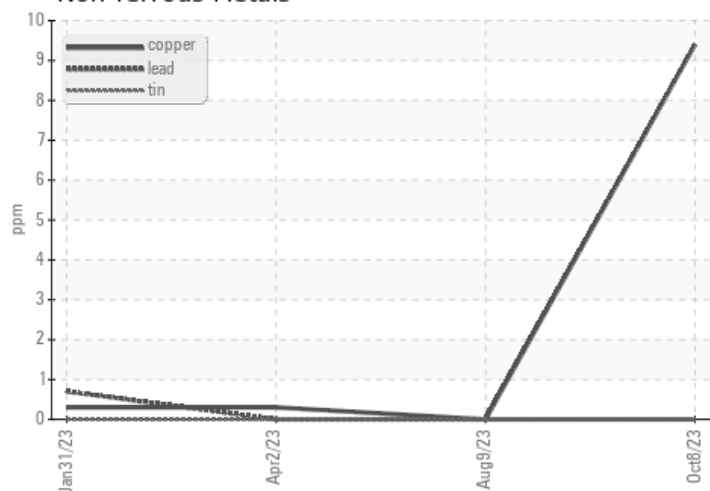


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

