

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A918 095565-1184 - Swing Drive

Sample No: LH0264433

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0264433	LH0268875	LH0220687	LHMC130198
Sample Date	12 Jun 2024	24 Jan 2024	23 Sep 2022	19 Sep 2020
Machine Hours	17064	15862	9705	3571
Oil Hours	1000	1000	0	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	NORMAL	NORMAL

UNITED SCRAP
 1545 S CICERO AVE
 BURR RIDGE, IL
 US 60527
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	163	143	136	189
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T:
F:



Contamination

Water	%	0.828	1.84	NEG	NEG
Silicon	ppm	5	3	2	1
Sodium	ppm	<1	2	1	4
Potassium	ppm	2	2	<1	0

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The oil is no longer serviceable due to the presence of contaminants.



Wear Metals

Iron	ppm	497	415	84	163
Copper	ppm	25	50	76	12
Lead	ppm	0	1	0	0
Tin	ppm	<1	2	2	0
Aluminum	ppm	3	1	<1	<1
Chromium	ppm	3	3	<1	1
Molybdenum	ppm	2	<1	<1	0
Nickel	ppm	<1	1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	4	3	<1	2
Vanadium	ppm	<1	<1	0	<1



Additives

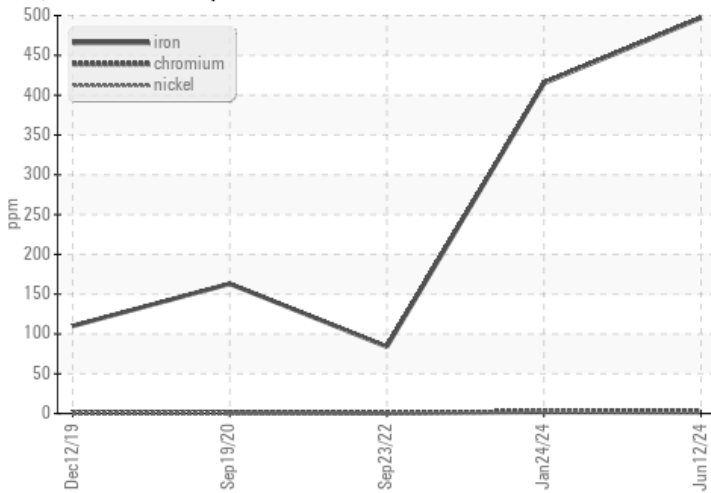
Calcium	ppm	149	19	26	12
Magnesium	ppm	21	6	4	9
Zinc	ppm	75	49	23	40
Phosphorus	ppm	1024	1885	1582	2040
Barium	ppm	<1	<1	0	<1
Boron	ppm	128	247	203	9

Depot: UNIBURIL
 Unique No: 11103618
 Signed: Angela Borella
 Report Date: 03 Jul 2024

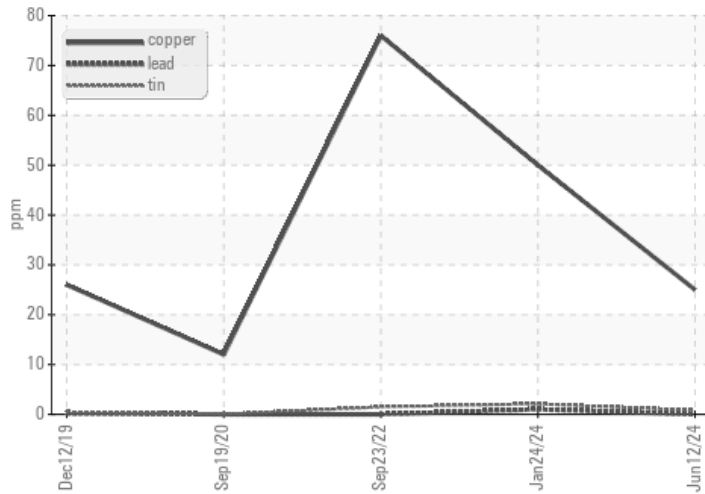


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

