

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 107739-1217 - Swing Drive

Sample No: LH0267588

Oil Type: LIEBHERR GEAR BASIC 90 LS



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
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SAMPLE INFORMATION

Sample Number	LH0267588	LH0200130	LHMC158283	LHMC164384
Sample Date	16 Oct 2023	24 Sep 2021	15 Nov 2019	01 Aug 2019
Machine Hours	8524	5121	1922	1388
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	SEVERE	NORMAL	ATTENTION	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	145	148	135	191
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CONTAMINATION

Water	%	0.639	---	---	---
Silicon	ppm	3	<1	1	1
Sodium	ppm	2	3	1	2
Potassium	ppm	<1	2	12	<1



WEAR METALS

Iron	ppm	1155	142	137	211
Copper	ppm	271	87	100	69
Lead	ppm	2	<1	<1	<1
Tin	ppm	6	6	0	5
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	11	1	1	1
Molybdenum	ppm	<1	1	<1	<1
Nickel	ppm	3	<1	<1	<1
Titanium	ppm	0	0	1	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	7	1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	23	29	65	33
Magnesium	ppm	<1	9	24	4
Zinc	ppm	34	10	44	13
Phosphorus	ppm	1501	1908	1625	2138
Barium	ppm	0	0	<1	<1
Boron	ppm	156	246	239	6

Diagnosis

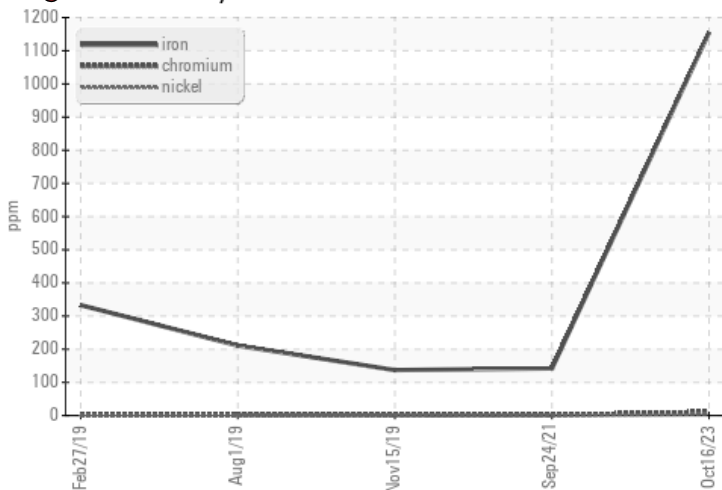
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a moderate concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LEC0033
Unique No: 10728455
Signed: Sean Felton
Report Date: 08 Nov 2023

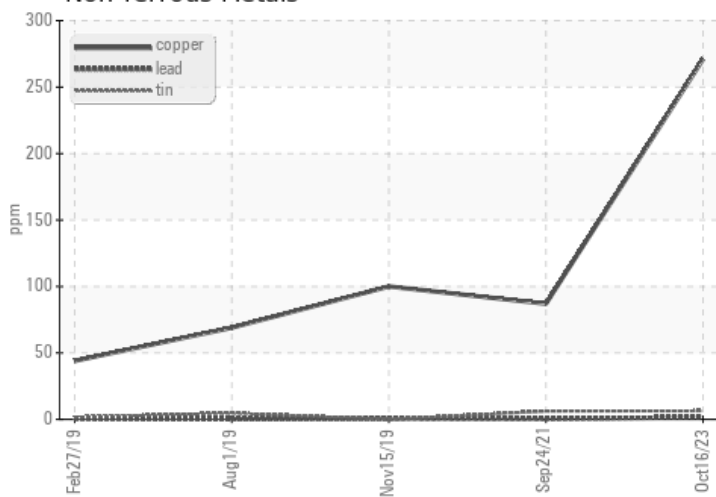


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

