

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 078768-1202 - Swing Drive

Sample No: LH0243230

Oil Type: LIEBHERR GEAR BASIC 90 LS



Wilmington Iron & Metal Company Inc
 2149 US Route
 Wilmington, OH
 CA 45177
 Contact: Maintenance Manager



SAMPLE INFORMATION

Sample Number	LH0243230	LH0244919	LH0207614	---
Sample Date	08 Mar 2024	09 May 2023	28 Mar 2022	---
Machine Hours	0	8274	7232	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	SEVERE	SEVERE	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	223	207	147	---
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CONTAMINATION

Water	%	0.275	1.00	NEG	---
Silicon	ppm	2	2	2	---
Sodium	ppm	1	2	1	---
Potassium	ppm	0	<1	3	---



WEAR METALS

Iron	ppm	1047	876	333	---
Copper	ppm	52	74	39	---
Lead	ppm	0	0	0	---
Tin	ppm	4	6	4	---
Aluminum	ppm	<1	0	1	---
Chromium	ppm	9	8	3	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	9	8	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	11	55	13	---
Magnesium	ppm	0	18	<1	---
Zinc	ppm	0	109	10	---
Phosphorus	ppm	2328	2243	2095	---
Barium	ppm	0	11	0	---
Boron	ppm	0	<1	4	---

T:
F:

Diagnosis

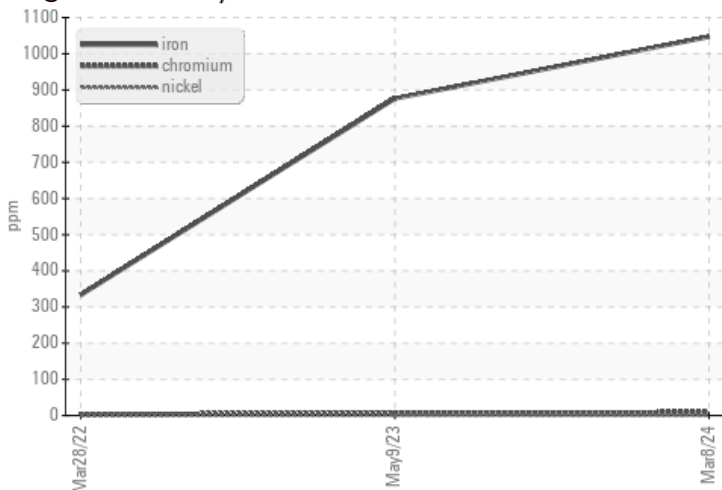
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a light concentration of water present in the oil. The oil is no longer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

Depot: WIL214WIL
 Unique No: 10927534
 Signed: Don Baldrige
 Report Date: 18 Mar 2024

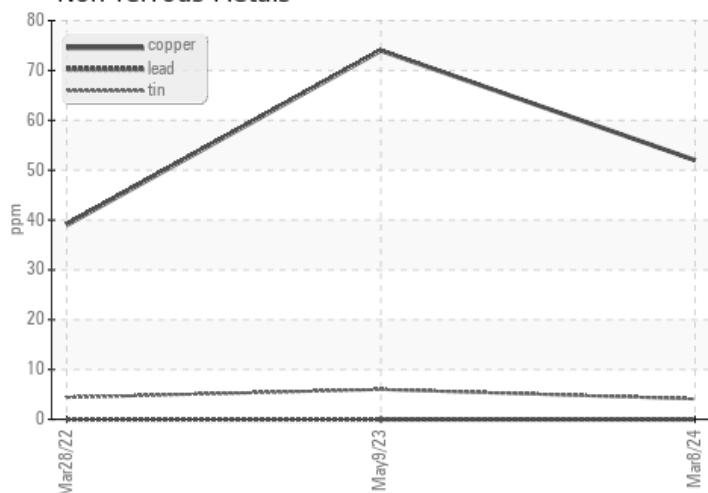


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

