

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027905-1681 - Right Final Drive

Sample No: LH0264298

Oil Type: GEAR OIL SAE 80W140



Sample Information

Sample Number	LH0264298	LH0254555	LH0254253	LH0254465
Sample Date	22 May 2024	09 Apr 2024	14 Mar 2024	15 Feb 2024
Machine Hours	2389	1627	1016	301
Oil Hours	2389	1627	1016	301
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	ABNORMAL	NORMAL

HEAVY MACHINES INC.
 3930 EAST RAINES RD
 MEMPHIS, TN
 US 38118
 Contact: J. DAVIS
 JDAVIS@HEAVY.LLC.COM
 T:
 F: (901)260-2245



Oil Condition

Visc @ 40°C	cSt	259	259	268	272
-------------	-----	-----	-----	-----	-----



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	14	13	12
Sodium	ppm	4	4	2	4
Potassium	ppm	4	<1	2	<1



Wear Metals

Iron	ppm	147	102	74	49
Copper	ppm	719	209	104	47
Lead	ppm	0	0	<1	1
Tin	ppm	16	5	3	1
Aluminum	ppm	2	2	3	2
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	7	7	8	6
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	3	2	2	1
Vanadium	ppm	0	0	<1	<1



Additives

Calcium	ppm	122	87	90	138
Magnesium	ppm	3	3	3	2
Zinc	ppm	117	72	69	58
Phosphorus	ppm	1201	1167	1069	1166
Barium	ppm	121	122	127	140
Boron	ppm	3	1	2	<1

Diagnosis

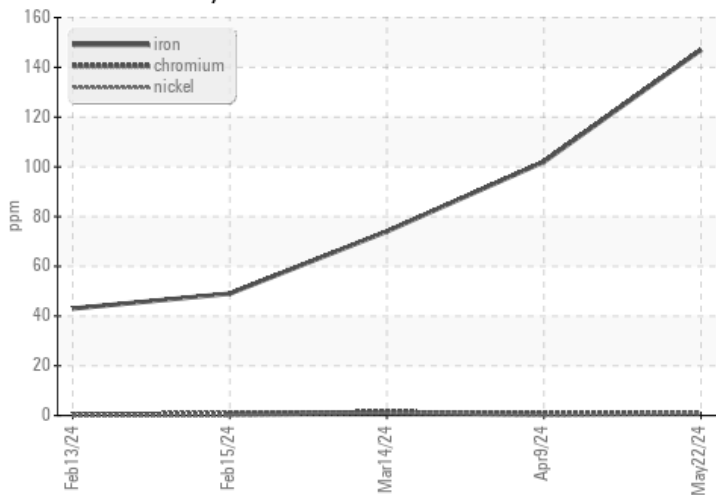
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: LEC0051
 Unique No: 11096858
 Signed: Sean Felton
 Report Date: 26 Jun 2024

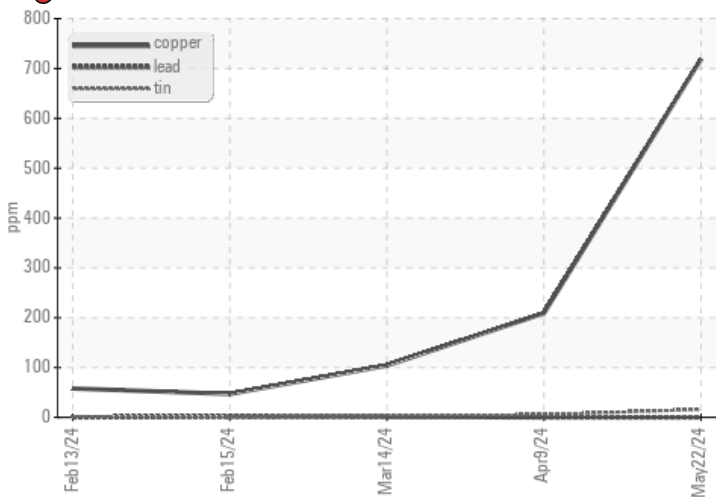


Graphs

Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

