

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027905-1681 - Right Final Drive

Sample No: LH0254542

Oil Type: GEAR OIL SAE 80W140



Sample Information

Sample Number	LH0254542	LH0264298	LH0254555	LH0254253
Sample Date	21 Jun 2024	22 May 2024	09 Apr 2024	14 Mar 2024
Machine Hours	3093	2389	1627	1016
Oil Hours	703	2389	1627	1016
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	ABNORMAL	ABNORMAL

HEAVY MACHINES INC.
 3930 EAST RAINES RD
 MEMPHIS, TN
 US 38118
 Contact: J. DAVIS
 JDAVIS@HEAVY.LLC.COM
 T:
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Oil Condition

Visc @ 40°C	cSt	334	259	259	268



Contamination

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



Wear Metals

Iron	ppm	71	147	102	74
Copper	ppm	430	719	209	104
Lead	ppm	0	0	0	<1
Tin	ppm	9	16	5	3
Aluminum	ppm	2	2	2	3
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	2	7	7	8
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	3	2	2
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	90	122	87	90
Magnesium	ppm	2	3	3	3
Zinc	ppm	59	117	72	69
Phosphorus	ppm	1144	1201	1167	1069
Barium	ppm	19	121	122	127
Boron	ppm	5	3	1	2

Diagnosis

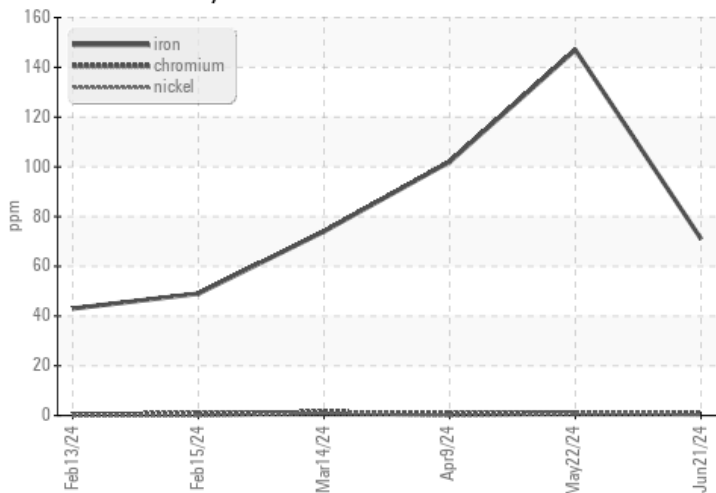
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: LEC0051
 Unique No: 11127072
 Signed: Sean Felton
 Report Date: 18 Jul 2024

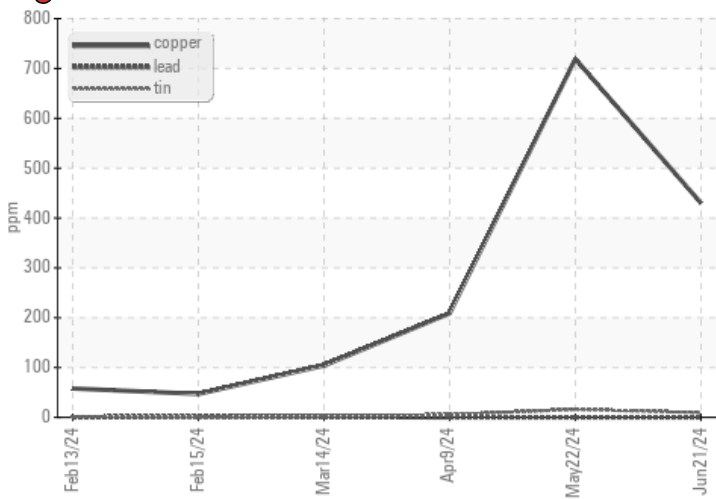


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

