

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR766 027905-1681 - Left Final Drive

Sample No: LH0264297

Oil Type: GEAR OIL SAE 80W140



Sample Information

Sample Number	LH0264297	LH0254554	LH0254252	LH0254464
Sample Date	24 Jun 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

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 3930 EAST RAINES RD
 MEMPHIS, TN
 US 38118
 Contact: J. DAVIS
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Oil Condition

Visc @ 40°C	cSt	257	263	268	273



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	15	16	14
Sodium	ppm	4	4	3	4
Potassium	ppm	3	<1	3	<1



Wear Metals

Iron	ppm	150	147	87	96
Copper	ppm	856	450	122	54
Lead	ppm	0	0	<1	1
Tin	ppm	21	10	4	1
Aluminum	ppm	2	2	3	3
Chromium	ppm	1	1	2	1
Molybdenum	ppm	6	10	10	8
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	0	0	<1	<1



Additives

Calcium	ppm	90	92	93	85
Magnesium	ppm	3	3	3	<1
Zinc	ppm	95	72	59	37
Phosphorus	ppm	1198	1216	1002	1162
Barium	ppm	118	128	125	143
Boron	ppm	3	2	2	<1

Diagnosis

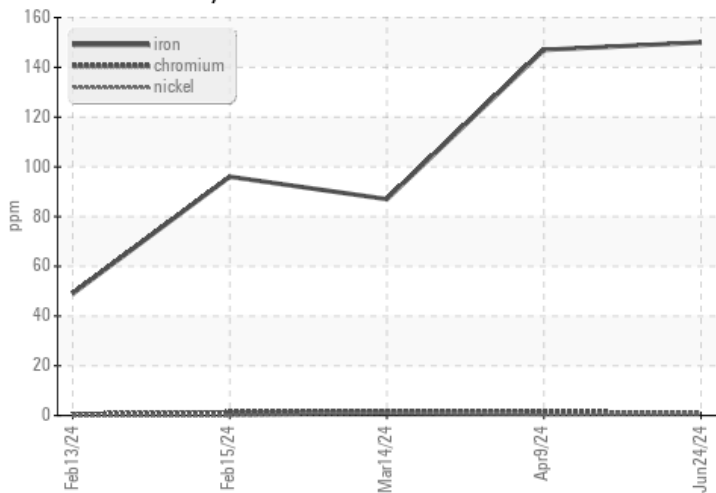
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The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

Depot: LEC0051
Unique No: 11096860
Signed: Sean Felton
Report Date: 26 Jun 2024

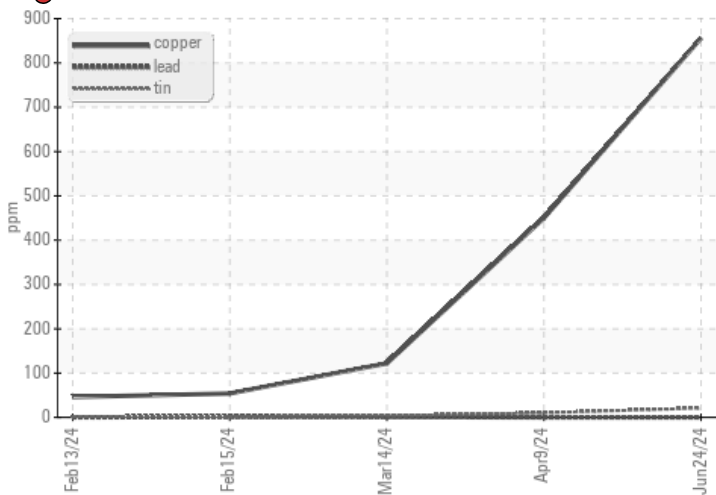


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

