LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR A904C 069488-1071 - Swing Drive

Sample No: LH0265728

Oil Type: GEAR OIL SAE 90

SAME	PLE INFOR <i>i</i>	MATION			
Sample Number		LH0265728	LH0260161	LH	LH0224396
Sample Date		19 Oct 2023	28 Apr 2023	21 Jul 2022	11 Apr 2022
Machine Hours		7171	6159	0	0
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	SEVERE	SEVERE
OIL CO	ONDITION				
Visc @ 40°C	cSt	101	98.2	O 109	158
_					

CON	ITAMIN	ATION				
_ CON	I AMIN	AIION				
Water	%			1.703	2.050	
Silicon	ppm	3	3	6	O 7	
Sodium	ppm	() <1	O <1	O 2	02	
Potassium	ppm	() <1	O 10	<1	O <1	

WEAR METALS					
PQ		0	0	0	3
Iron	ppm	0 846	480	1217	0 1084
Copper	ppm	140	6 9	308	O 101
Lead	ppm	4	○ 3	<u>13</u>	4
Tin	ppm	0 0	O <1	O 2	4
Aluminum	ppm	0 <1	O <1	1	O 2
Chromium	ppm	7	4	9	0 8
Molybdenum	ppm	0 <1	O <1	O 2	4
Nickel	ppm	0 <1	1	1	02
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	6	4	9	9
Vanadium	ppm	0	0	0	0

ADDITIVES						
Calcium	ppm	23	1 3	28	48	
Magnesium	ppm	2	O 2	O 1	O 1	
Zinc	ppm	23	19	O 21	○ 33	
Phosphorus	ppm	1351	O 1423	O 1427	O 2017	
Barium	ppm	0	O 0	O 0	0	
Boron	ppm	153	O 238	○ 65	O 69	



Urban Mine
72 Rothwell Rd.
Winnipeg, MB
CA R3P 2H7
Contact: SERVICE

T: (204)774-0192

F:

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. Gear wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: URBWIN
Unique No: 5668611
Signed: Kevin Marson
Report Date: 26 Oct 2023

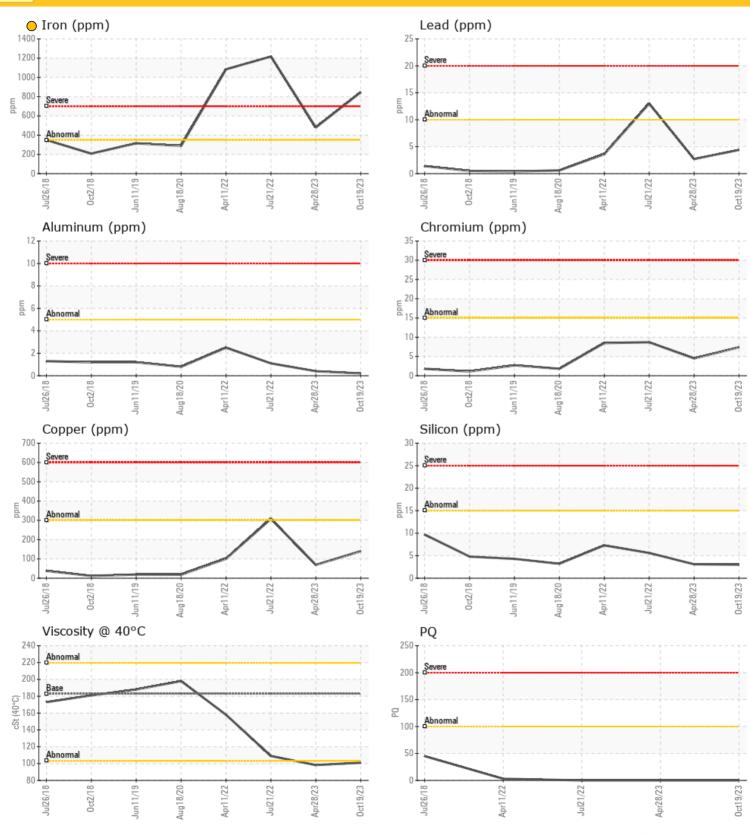
LIEBHERR

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GRAPHS



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Submitted By: Bastian Firmbach