

LIEBHERR

CONSTRUCTION EQUIPMENT



[(358628)] LIEBHERR R914 047334-1511 - Swing Drive

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH	LH0243078	LH	---
Sample Date	23 Nov 2023	05 Jan 2023	22 Sep 2021	---
Machine Hours	3825	2731	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	SEVERE	NORMAL	---

L.A.H. EQUIPMENT INC.

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OIL CONDITION

Visc @ 40°C	cSt	254	222	207	---
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CONTAMINATION

Water	%	NEG	1.383	NEG	---
Silicon	ppm	7	5	21	---
Sodium	ppm	3	4	4	---
Potassium	ppm	0	0	1	---



WEAR METALS

PQ		6	---	---	---
Iron	ppm	961	267	360	---
Copper	ppm	44	33	23	---
Lead	ppm	1	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	7	2	3	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	2	0	<1	---
Manganese	ppm	6	2	4	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	10	20	11	---
Magnesium	ppm	<1	1	2	---
Zinc	ppm	36	45	51	---
Phosphorus	ppm	2215	2398	2344	---
Barium	ppm	<1	2	2	---
Boron	ppm	3	4	3	---

Diagnosis

We advise that you check for the source of water entry. 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. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Free water present. Viscosity of sample indicates oil is within SAE 80W140 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LAHBRO
Unique No: 5684156
Signed: Kevin Marson
Report Date: 28 Nov 2023



GRAPHS

