

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R945 055722-1866 - Hydraulic System

Sample No: LH0254609

Oil Type: LIEBHERR HYDRAULIC



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
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SAMPLE INFORMATION

Sample Number	LH0254609	---	---	---
Sample Date	15 Aug 2023	---	---	---
Machine Hours	1076	---	---	---
Oil Hours	1076	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.3	---	---	---
Acid Number (AN)	mg KOH/g	● 1.50	---	---	---



CONTAMINATION

Particles >4µm		● 13250	---	---	---
Particles >6µm		● 1416	---	---	---
Particles >14µm		● 70	---	---	---
ISO 4406:1999 (c)		21/18/13	---	---	---
Silicon	ppm	● 4	---	---	---
Sodium	ppm	● 0	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

Iron	ppm	● 14	---	---	---
Copper	ppm	● 33	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	762	---	---	---
Magnesium	ppm	5	---	---	---
Zinc	ppm	729	---	---	---
Phosphorus	ppm	605	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	0	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other metal levels are typical for a new component breaking in. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LEC0033
 Unique No: 10631975
 Signed: Don Baldrige
 Report Date: 06 Sep 2023



GRAPHS

