

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R945 055722-1866 - Right Final Drive

Sample No: LH0254654

Oil Type: LIEBHERR GEAR BASIC 90 LS



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

Sample Number	LH0254654	---	---	---
Sample Date	15 Aug 2023	---	---	---
Machine Hours	1076	---	---	---
Oil Hours	1076	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 189	---	---	---
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CONTAMINATION

Silicon	ppm	● 213	---	---	---
Sodium	ppm	● 6	---	---	---
Potassium	ppm	● 22	---	---	---



WEAR METALS

Iron	ppm	● 191	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 48	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	● 3	---	---	---
Silver	ppm	● <1	---	---	---
Manganese	ppm	● 4	---	---	---
Vanadium	ppm	● <1	---	---	---



ADDITIVES

Calcium	ppm	● 103	---	---	---
Magnesium	ppm	● 42	---	---	---
Zinc	ppm	● 24	---	---	---
Phosphorus	ppm	● 1193	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

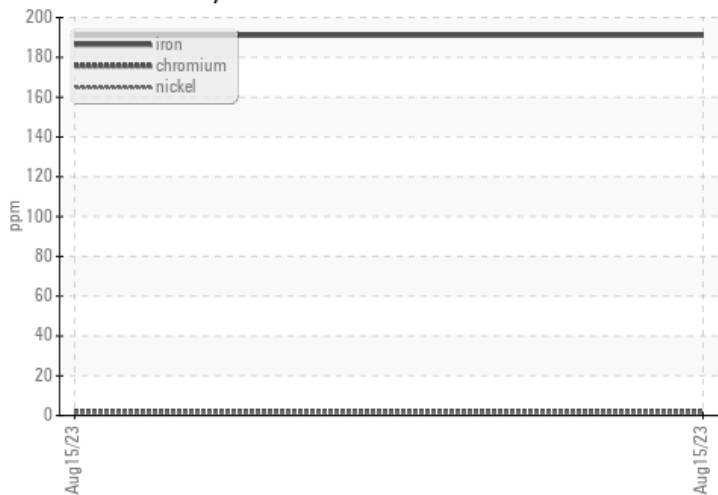
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: LEC0033
Unique No: 10632184
Signed: Doug Bogart
Report Date: 05 Sep 2023

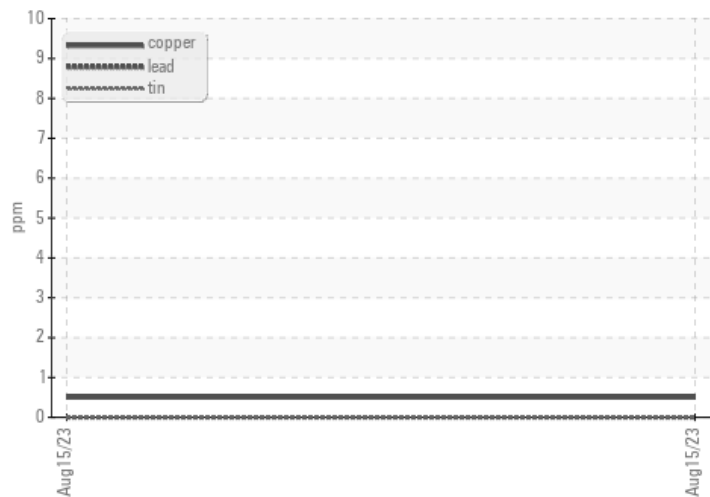


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

