

LIEBHERR

CONSTRUCTION EQUIPMENT



135924 - 2 Hoisting Gearbox

Sample No: LH0264488

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0264488	---	---	---
Sample Date	24 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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 HOUSTON, TX
 US 77028
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	● 174	---	---	---
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CONTAMINATION

Water	%	● 1.58	---	---	---
Silicon	ppm	41	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 3	---	---	---



WEAR METALS

Iron	ppm	● 27	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 28	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 84	---	---	---
Phosphorus	ppm	● 570	---	---	---
Barium	ppm	● 6	---	---	---
Boron	ppm	● 54	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. Excessive free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEBHERRNZ
Unique No: 10942311
Signed: Don Baldrige
Report Date: 27 Mar 2024

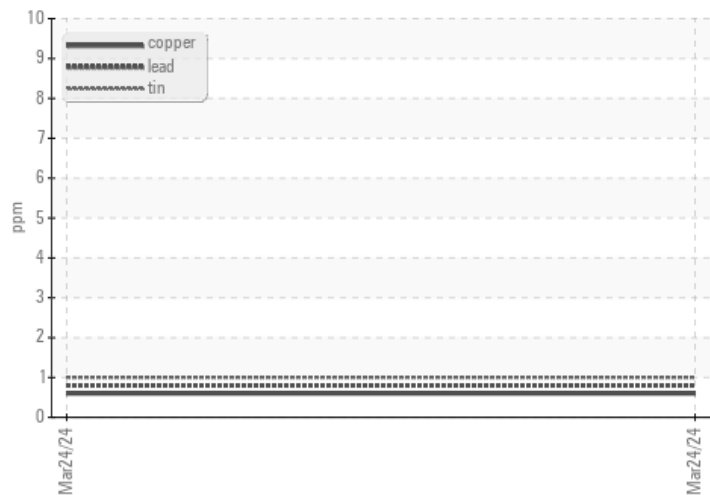


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

