

LIEBHERR

CONSTRUCTION EQUIPMENT



135924 - 1 Swing Drive

Sample No: LH0264483

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0264483	---	---	---
Sample Date	24 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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 HOUSTON, TX
 US 77028
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	● 151	---	---	---
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CONTAMINATION

Water	%	● 0.257	---	---	---
Silicon	ppm	● 13	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 3	---	---	---



WEAR METALS

Iron	ppm	● 49	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 15	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 24	---	---	---
Phosphorus	ppm	● 891	---	---	---
Barium	ppm	● 2	---	---	---
Boron	ppm	● 91	---	---	---

Diagnosis

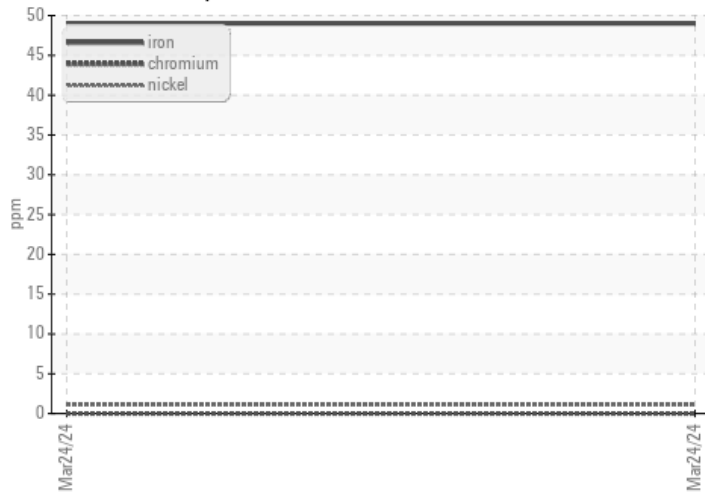
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRNZ
Unique No: 10942310
Signed: Don Baldrige
Report Date: 27 Mar 2024

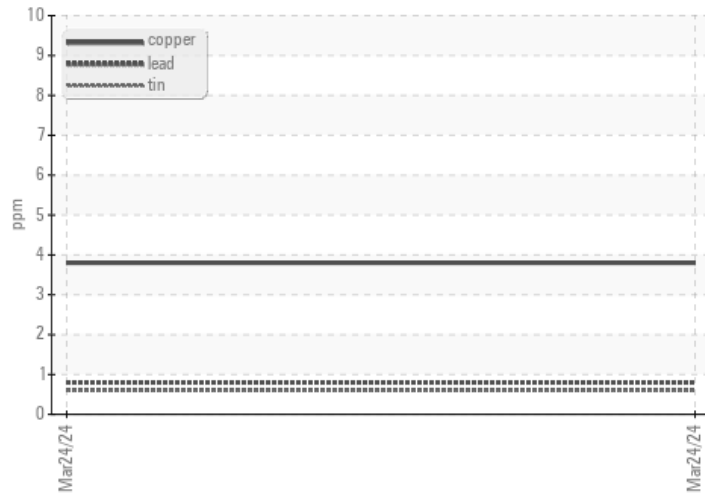


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

