

LIEBHERR

CONSTRUCTION EQUIPMENT



135924 - Boom Winch

Sample No: LH0264484

Oil Type: GEAR OIL SAE 80



SAMPLE INFORMATION

Sample Number	LH0264484	---	---	---
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
 Contact: JONATHAN KAY
 JOHNATHAN.KEY@LIEBHERR.COM
 T:
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OIL CONDITION

Visc @ 40°C	cSt	83.6	---	---	---
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CONTAMINATION

Water	%	2.18	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	32	---	---	---
Copper	ppm	200	---	---	---
Lead	ppm	3	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	42	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	191	---	---	---
Phosphorus	ppm	778	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	54	---	---	---

Diagnosis

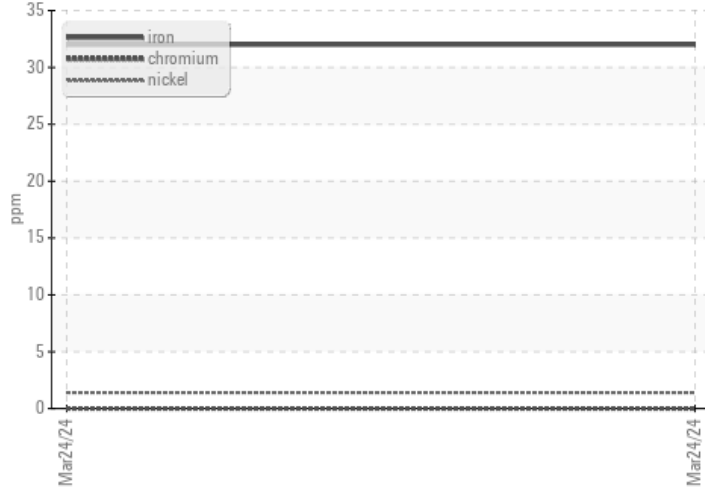
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Moderate concentration of visible dirt/debris present in 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: 10942309
Signed: Don Baldrige
Report Date: 27 Mar 2024

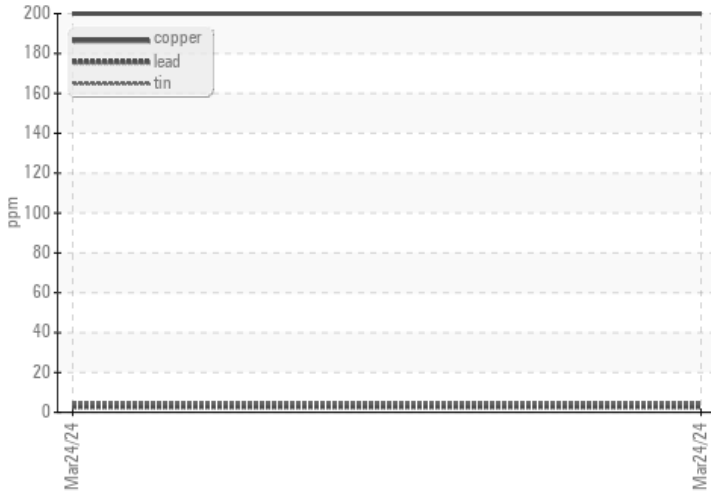


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

