

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1070-4.2 060759 - Winch

Sample No: LH0259058

Oil Type: LIEBHERR GEAR PG 220



SAMPLE INFORMATION

Sample Number	LH0259058	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: TERENCE VANDERLENDE
 TERENCE.VANDERLENDE@LIEBHERR.COM
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 641.1	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● 27	---	---	---
Potassium	ppm	● 7	---	---	---



WEAR METALS

Iron	ppm	● 119	---	---	---
Copper	ppm	● 5	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	4	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	● 25	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 32	---	---	---
Phosphorus	ppm	● 12	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 29	---	---	---

Diagnosis

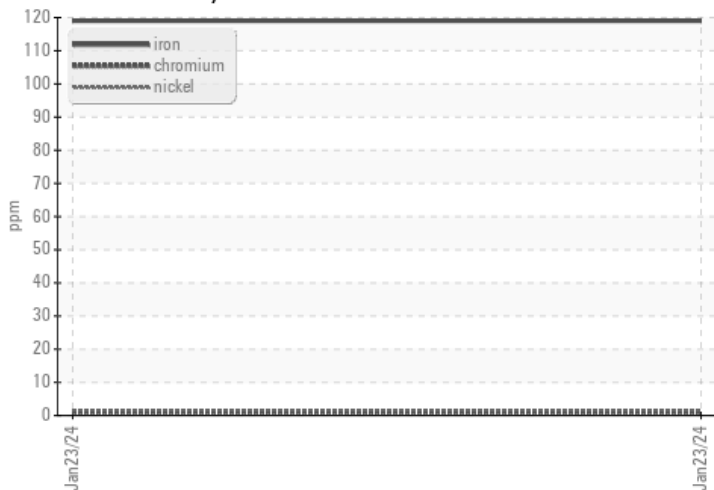
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 680 range, advise investigate. Confirm oil type.

Depot: LIENEW
 Unique No: 10847918
 Signed: Jonathan Hester
 Report Date: 01 Feb 2024

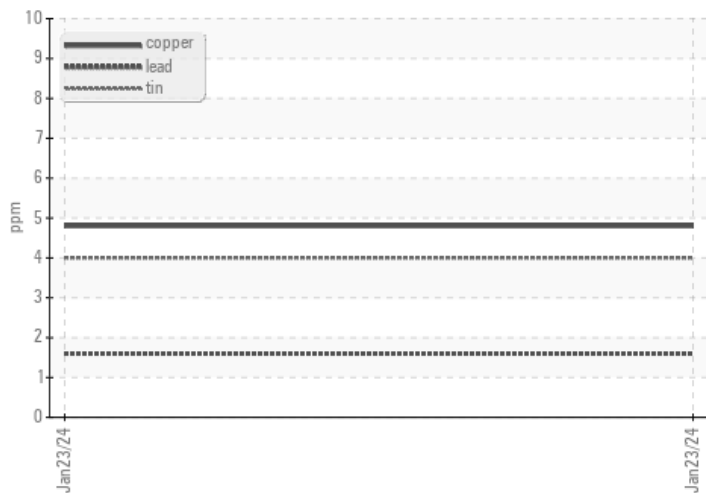


GRAPHS

Ferrous Alloys



Non-ferrous Metals



● Viscosity @ 40°C

