

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LRT 1100-2.1 Bigge LRT (S/N 044808) - 2 Winch

Sample No: LH0257762

Oil Type: LIEBHERR SYNTOGEAR PLUS 220



Sample Information

Sample Number	LH0257762	---	---	---
Sample Date	21 May 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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Oil Condition

Visc @ 40°C	cSt	● 235	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 4	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	● 8	---	---	---
Copper	ppm	● 0	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 6	---	---	---
Magnesium	ppm	● 0	---	---	---
Zinc	ppm	● 0	---	---	---
Phosphorus	ppm	● <1	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

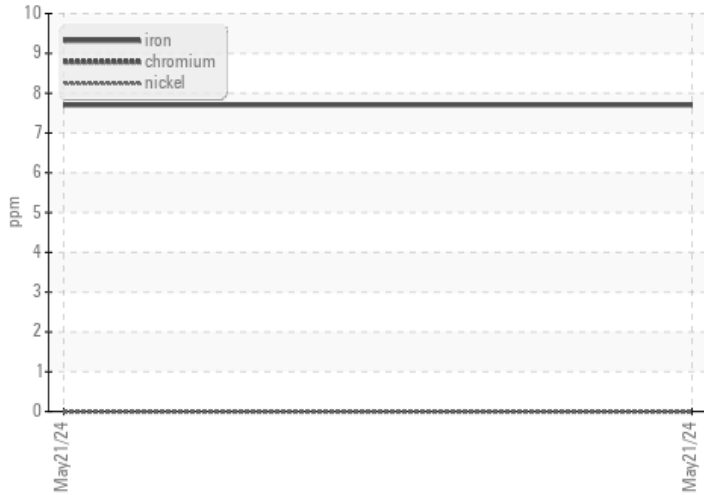
Depot: LIEHOU
 Unique No: 11044853
 Signed: Sean Felton
 Report Date: 24 May 2024

Submitted By: ALEXANDER BUECH

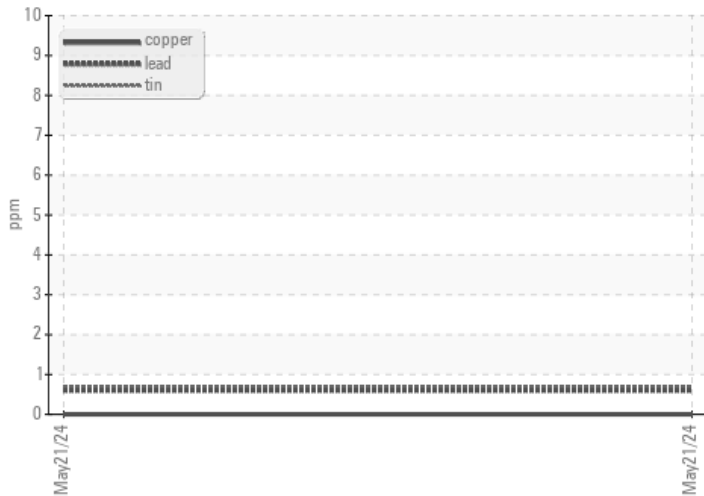


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

