

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R920 051529-1705 - Hydraulic System

Sample No: LH0269740

Oil Type: NOT GIVEN



**SHAMROCK EARTHWORKS LTD**  
 351 EVERSIDE WAY SW  
 CALGARY, AB  
 CA T2Y 4R2  
 Contact: Service Manager

T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0269740	---	---	---
Sample Date	21 Aug 2023	---	---	---
Machine Hours	2657	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 42.2	---	---	---
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#### CONTAMINATION

Particles >4µm		● 1154	---	---	---
Particles >6µm		● 276	---	---	---
Particles >14µm		● 24	---	---	---
ISO 4406:1999 (c)		17/15/12	---	---	---
Silicon	ppm	● 9	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 1	---	---	---

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	● 10	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

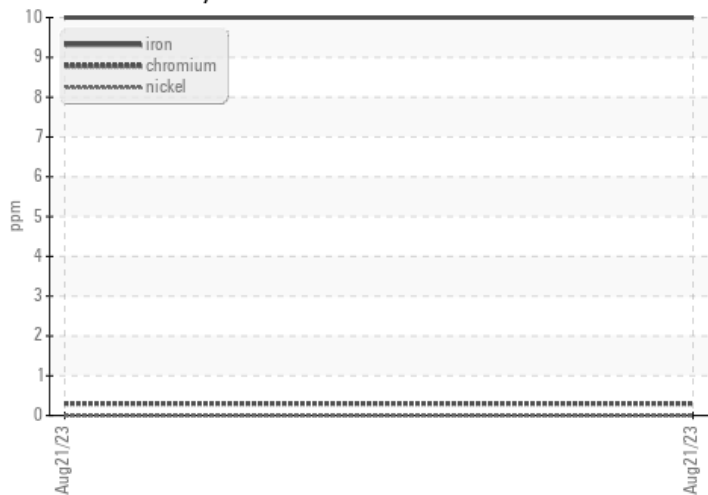
Calcium	ppm	1279	---	---	---
Magnesium	ppm	5	---	---	---
Zinc	ppm	714	---	---	---
Phosphorus	ppm	634	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

**Depot:** SHA351CAL  
**Unique No:** 5633775  
**Signed:** Wes Davis  
**Report Date:** 07 Sep 2023

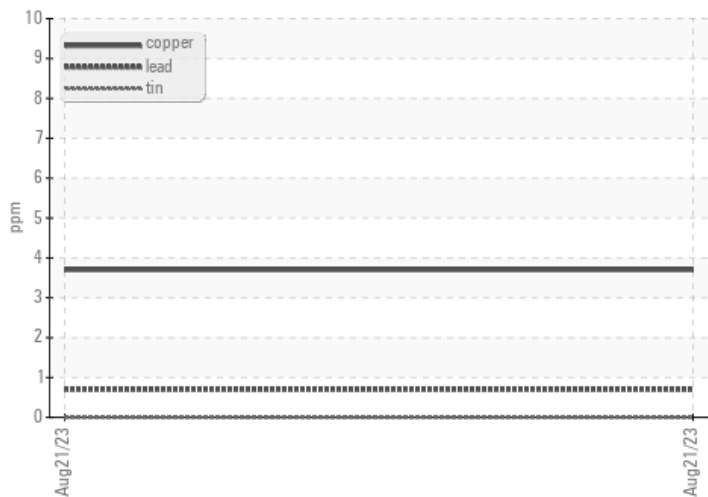


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

