

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [RONI] 100-048 - Hydraulic System

Sample No: LH0156516

Oil Type: AW HYDRAULIC OIL ISO 46



**RONI/IRON SHORE EXCAVATING LTD.**  
 100 MACINTOSH BLVD  
 VAUGHAN, ON  
 CA L4K 4P3  
 Contact: Service Team  
 service.team@roni.ca  
 T:  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0156516	---	---	---
Sample Date	31 Jul 2023	---	---	---
Machine Hours	1036	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 40°C	cSt	● 44.0	---	---	---
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#### CONTAMINATION

Particles >4µm		● 21778	---	---	---
Particles >6µm		● 3964	---	---	---
Particles >14µm		● 91	---	---	---
ISO 4406:1999 (c)		22/19/14	---	---	---
Silicon	ppm	● 2	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● <1	---	---	---



#### WEAR METALS

Iron	ppm	● 3	---	---	---
Copper	ppm	● 15	---	---	---
Lead	ppm	● <1	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● <1	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	● 0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	● 0	---	---	---



#### ADDITIVES

Calcium	ppm	● 130	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	● 699	---	---	---
Phosphorus	ppm	● 588	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● <1	---	---	---

#### Diagnosis

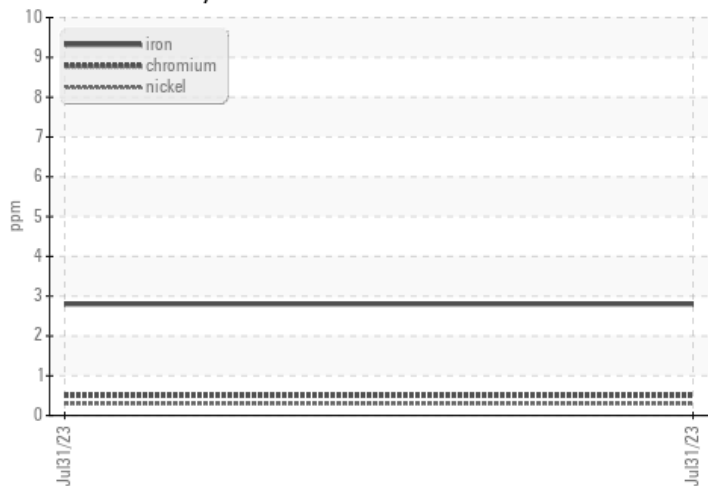
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: RONVAU  
 Unique No: 5629000  
 Signed: Kevin Marson  
 Report Date: 16 Aug 2023

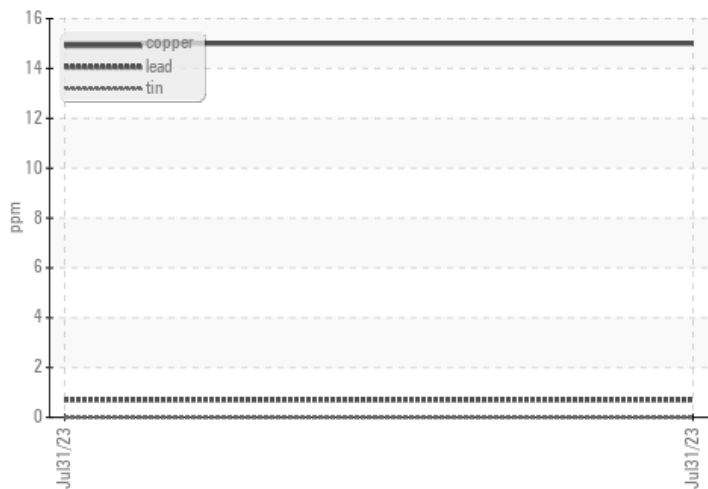


### GRAPHS

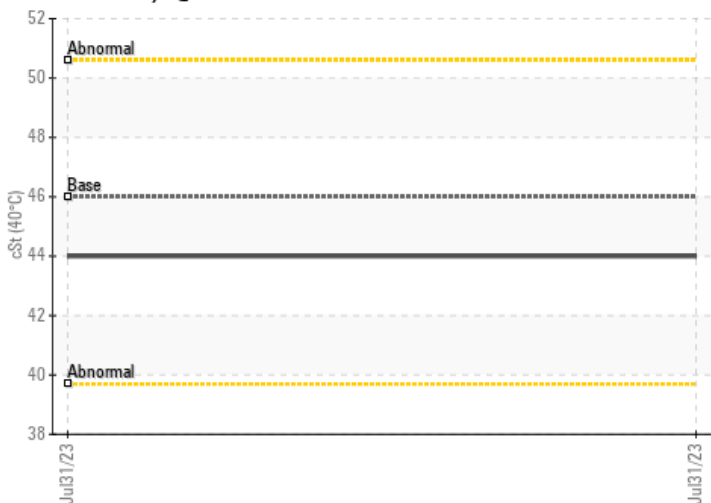
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

