



# CONSTRUCTION EQUIPMENT

RSO037812 TERRAMAC RT 14R 14RK00251 - HYDRAULIC SYSTEM



**Sample No:** VCP454758  
**Oil Type:** {unknown}  
**Job No:** RSO037812



## SAMPLE INFORMATION

Sample Number	VCP454758	---	---	---
Sample Date	22 Apr 2024	---	---	---
Machine Hours	989	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
BIRMINGHAM, AL  
US 35217  
Contact: BRANTLY CLAY  
bclay@cowin.com  
T:  
F: (205)856-2106



## OIL CONDITION

Visc @ 40°C	cSt	▲ 24.1	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.49	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 13146	---	---	---
Particles >6µm		▲ 2269	---	---	---
Particles >14µm		▲ 229	---	---	---
ISO 4406:1999 (c)		21/18/15	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---



## WEAR METALS

Iron	ppm	■ 0	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	51	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	83	---	---	---
Magnesium	ppm	18	---	---	---
Zinc	ppm	401	---	---	---
Phosphorus	ppm	351	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

## Diagnosis

We advise that you check for the source of fuel entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The AN level is acceptable for this fluid.

**Depot:** VOLVO8528  
**Unique No:** 11003477  
**Signed:** Jonathan Hester  
**Report Date:** 03 May 2024

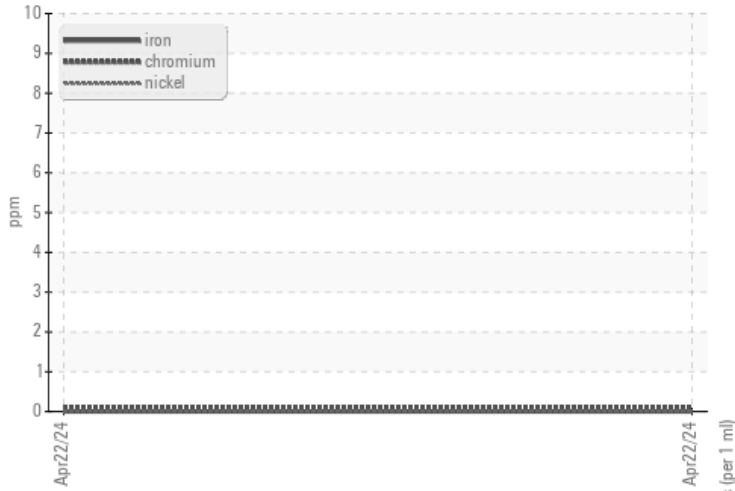


# CONSTRUCTION EQUIPMENT

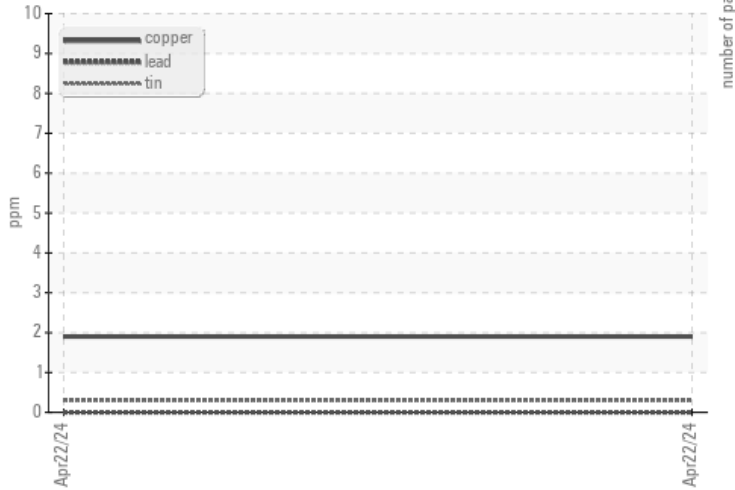


## VOLVO GRAPHS

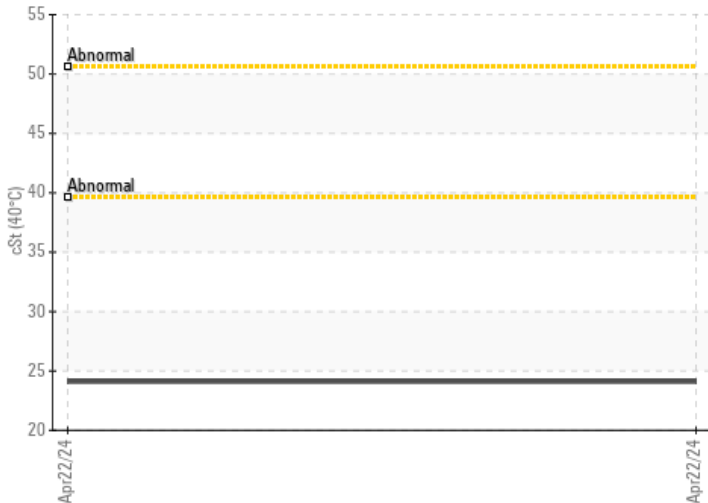
### Ferrous Alloys



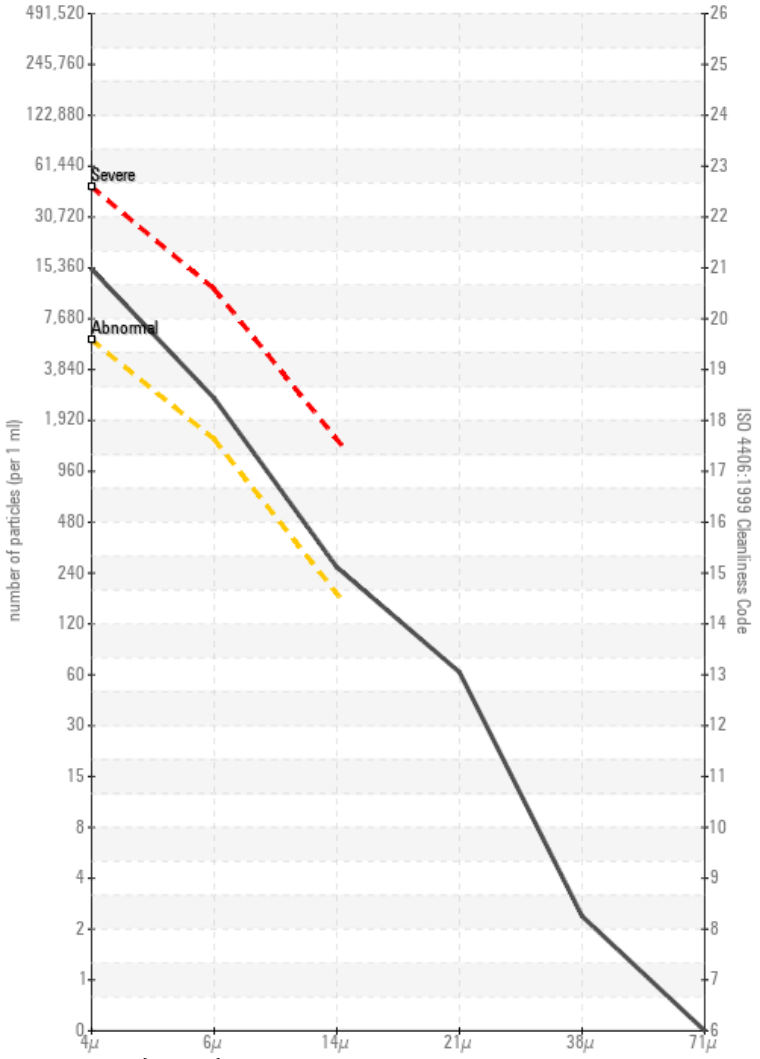
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

