



# CONSTRUCTION EQUIPMENT

## 037370 VOLVO EC220EL 314544 - HYDRAULIC SYSTEM



**Sample No:** VCP438630  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 037370



### SAMPLE INFORMATION

Sample Number	VCP438630	---	---	---
Sample Date	20 Mar 2024	---	---	---
Machine Hours	1357	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### COWIN EQUIPMENT - ATLANTA

5710 RIVERVIEW RD  
 MABLETON, GA  
 US 30126  
 Contact: HUNTER PARKER  
 hparker@cowin.com  
 T: (404)696-7210  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	█ 42.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.58	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 20943	---	---	---
Particles >6µm		█ 708	---	---	---
Particles >14µm		█ 34	---	---	---
ISO 4406:1999 (c)		22/17/12	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 44	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	439	---	---	---
Magnesium	ppm	█ 8	---	---	---
Zinc	ppm	█ 549	---	---	---
Phosphorus	ppm	█ 418	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ <1	---	---	---

**Depot:** COWMAB  
**Unique No:** 10941170  
**Signed:** Wes Davis  
**Report Date:** 26 Mar 2024

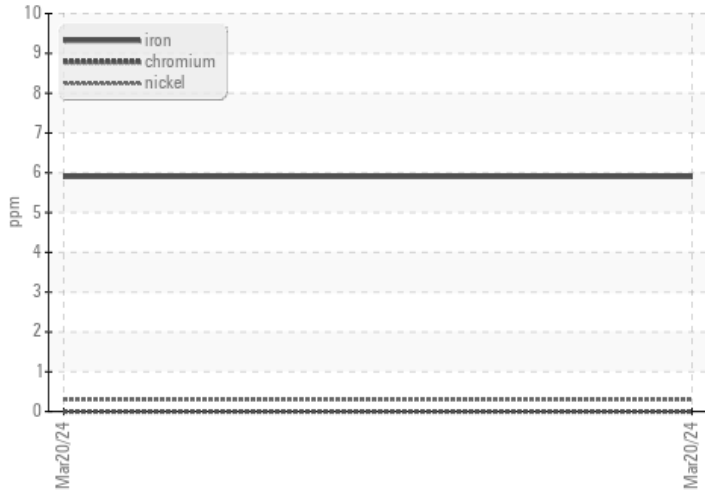


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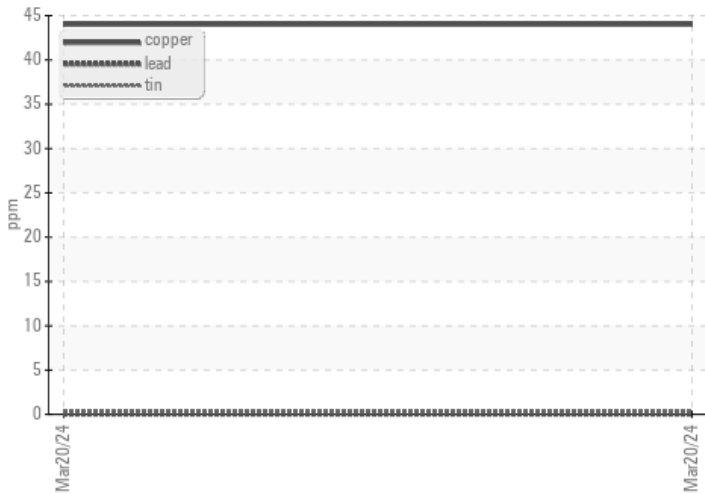


## GRAPHS

### Ferrous Alloys



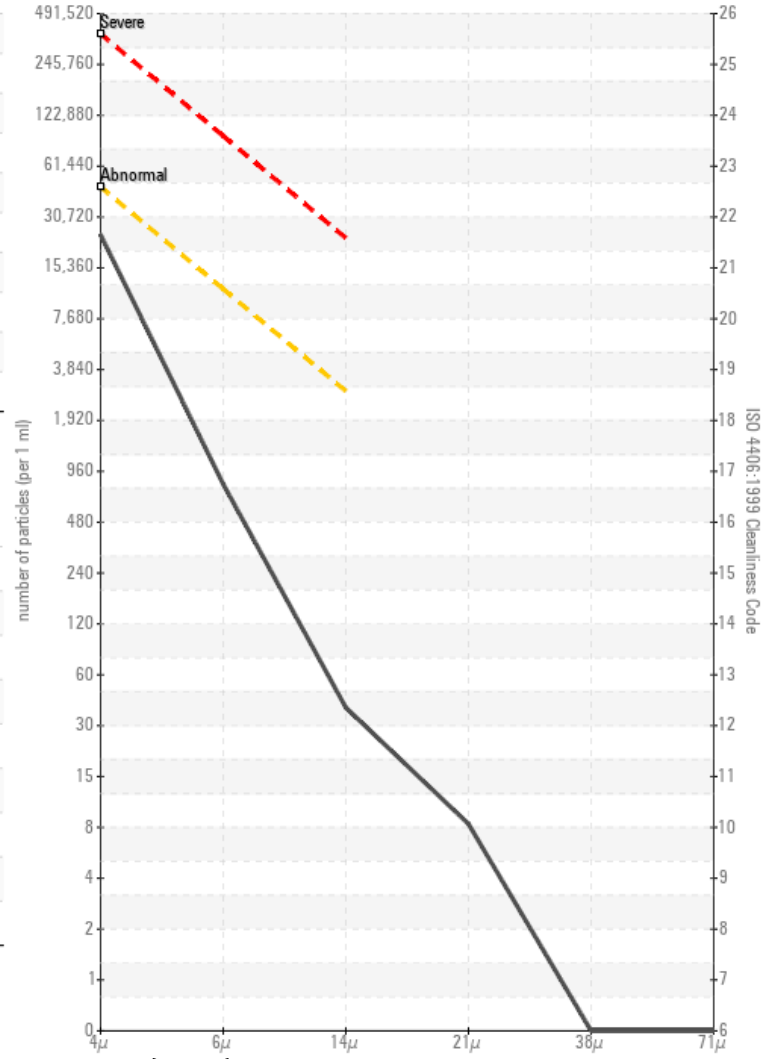
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

