



# CONSTRUCTION EQUIPMENT

## 567794 VOLVO L220H 3204 - HYDRAULIC SYSTEM



**Sample No:** VCP425455  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 567794



### SAMPLE INFORMATION

Sample Number	VCP425455	VCP406166	---	---
Sample Date	26 Jun 2023	27 Feb 2022	---	---
Machine Hours	3766	3281	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

**FIVE STONES MINE**  
MORNING STAR FARM RD  
CANAL POINT, FL  
US 33430  
Contact: Service Manager

### OIL CONDITION

Visc @ 40°C	cSt	▲ 37.0	▲ 37.21	---	---
Acid Number (AN)	mg KOH/g	■ 0.38	■ 0.37	---	---

T:  
F:

### CONTAMINATION

Particles >4µm		7198	21878	---	---
Particles >6µm		■ 1844	▲ 3704	---	---
Particles >14µm		▲ 144	■ 68	---	---
ISO 4406:1999 (c)		20/18/14	22/19/13	---	---
Silicon	ppm	■ 1	■ 2	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ <1	■ 0	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

### WEAR METALS

Iron	ppm	■ 5	■ 5	---	---
Copper	ppm	■ 10	■ 11	---	---
Lead	ppm	■ <1	■ 2	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ 2	■ 2	---	---
Molybdenum	ppm	■ 0	■ 0	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	■ 40	■ 47	---	---
Magnesium	ppm	■ 4	■ 0	---	---
Zinc	ppm	■ 409	■ 407	---	---
Phosphorus	ppm	■ 324	■ 331	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 0	■ 0	---	---

**Depot:** FIVCAN  
**Unique No:** 10537037  
**Signed:** Don Baldrige  
**Report Date:** 03 Jul 2023

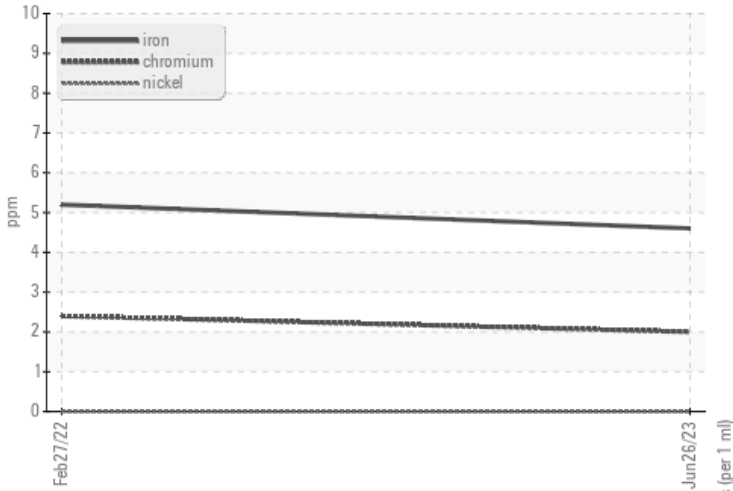


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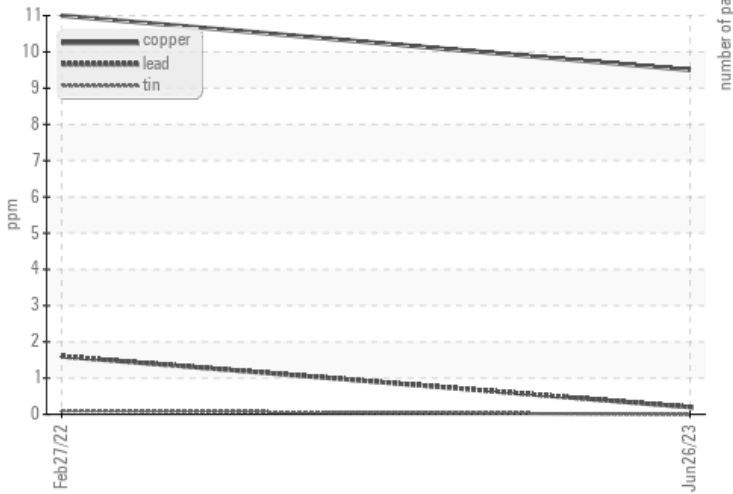


## GRAPHS

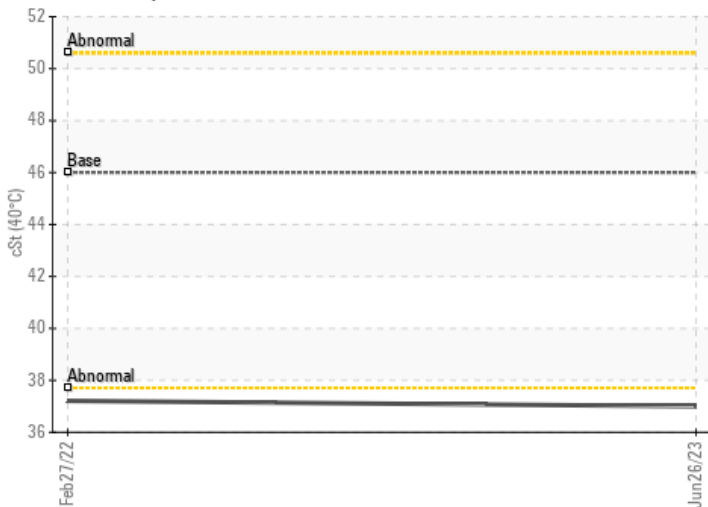
### Ferrous Alloys



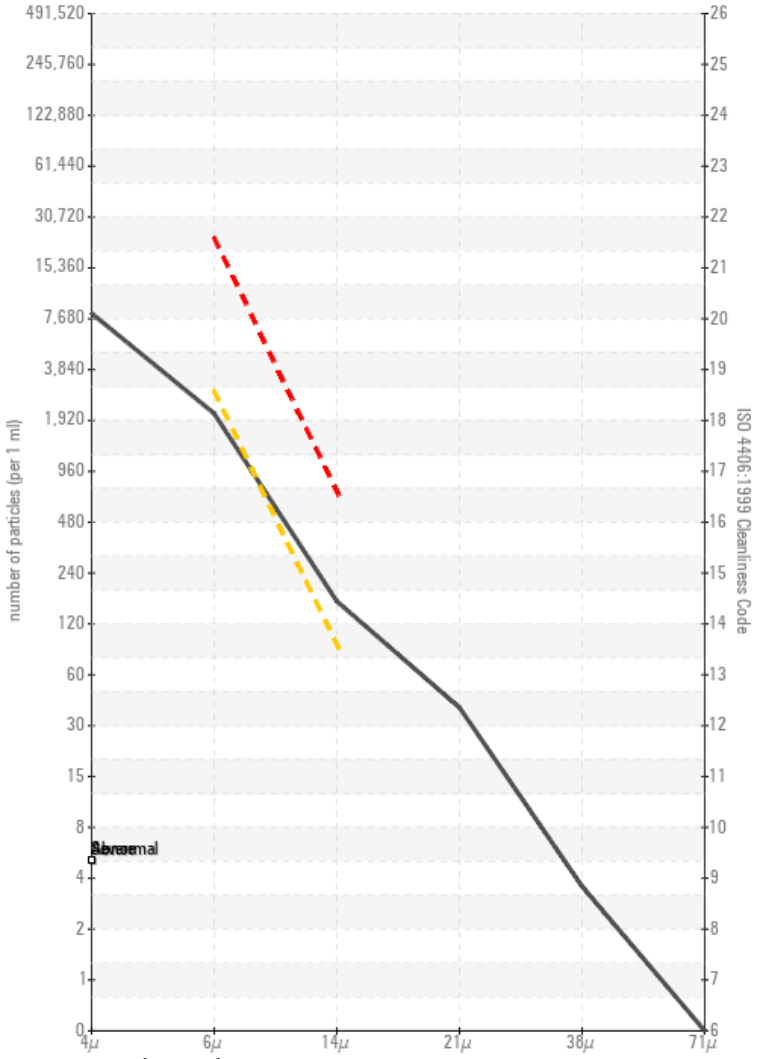
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

