



# CONSTRUCTION EQUIPMENT

## 23623 VOLVO EC380EL 311791 - HYDRAULIC SYSTEM



**Sample No:** VCP420875  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 23623



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### SAMPLE INFORMATION

Sample Number	<b>VCP420875</b>	VCP375873	---	---
Sample Date	<b>27 Jun 2023</b>	24 Jun 2022	---	---
Machine Hours	<b>6647</b>	4662	---	---
Oil Hours	<b>2000</b>	0	---	---
Oil Changed	<b>Changed</b>	N/A	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>49.0</b>	47.2	---	---
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.40	---	---



### CONTAMINATION

Particles >4µm		<b>4646</b>	3905	---	---
Particles >6µm		<b>520</b>	1199	---	---
Particles >14µm		<b>30</b>	113	---	---
ISO 4406:1999 (c)		<b>19/16/12</b>	19/17/14	---	---
Silicon	ppm	<b>4</b>	2	---	---
Sodium	ppm	<b>2</b>	0	---	---
Potassium	ppm	<b>0</b>	<1	---	---



### WEAR METALS

Iron	ppm	<b>13</b>	0	---	---
Copper	ppm	<b>21</b>	0	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>&lt;1</b>	<1	---	---
Chromium	ppm	<b>3</b>	0	---	---
Molybdenum	ppm	<b>1</b>	0	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>&lt;1</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>192</b>	48	---	---
Magnesium	ppm	<b>82</b>	<1	---	---
Zinc	ppm	<b>487</b>	428	---	---
Phosphorus	ppm	<b>452</b>	311	---	---
Barium	ppm	<b>14</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

### 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.

**Depot:** VOLVO3387  
**Unique No:** 10538288  
**Signed:** Wes Davis  
**Report Date:** 03 Jul 2023

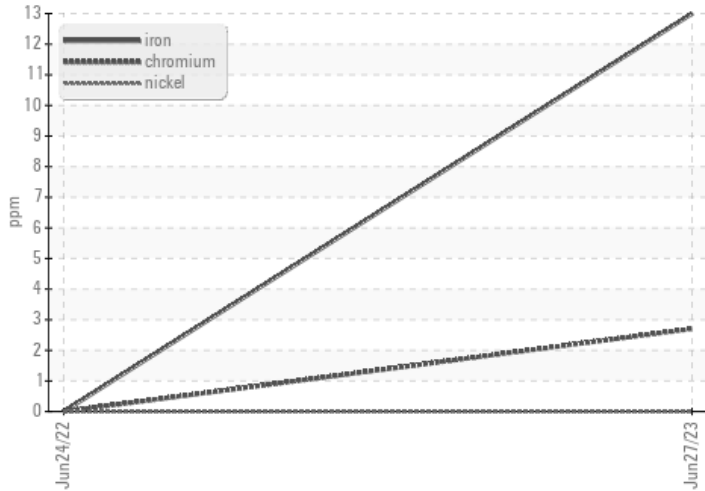


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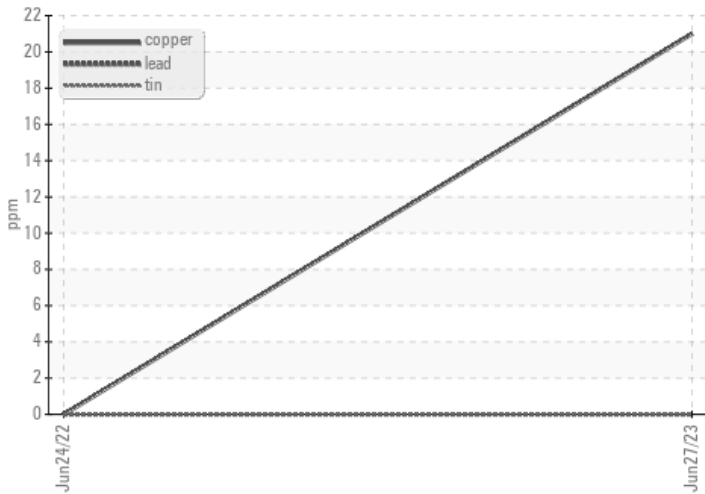


## GRAPHS

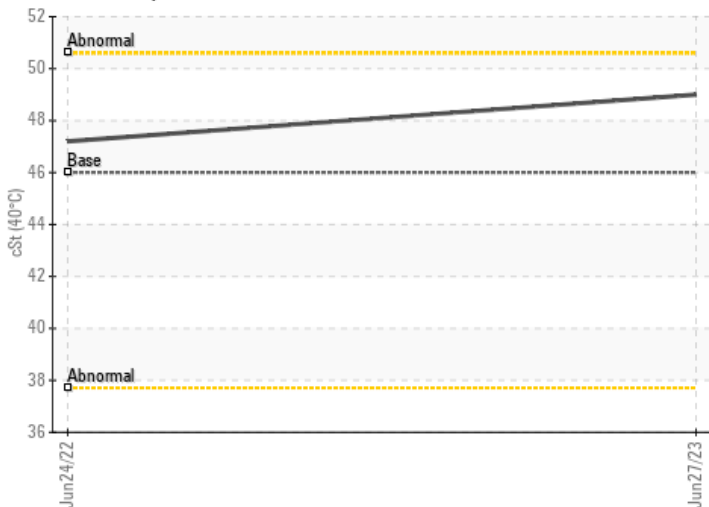
### Ferrous Alloys



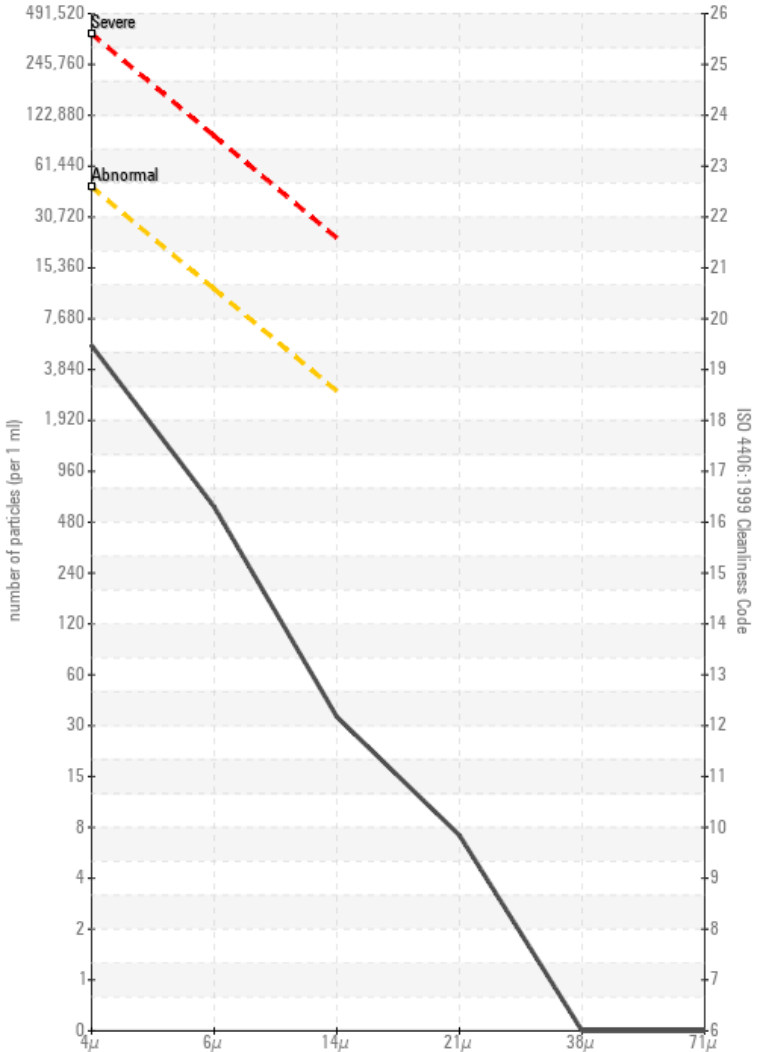
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

