



# CONSTRUCTION EQUIPMENT

SW-23802-2 CASTLE VA VOLVO EC480E 314667 - HYDRAULIC SYSTEM



**Sample No:** VCP412480  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SW-23802-2 CASTLE VA



## SAMPLE INFORMATION

Sample Number	<b>VCP412480</b>	VCP396455	VCP346833	---
Sample Date	<b>11 Sep 2023</b>	17 Nov 2022	10 Mar 2022	---
Machine Hours	<b>4022</b>	2134	498	---
Oil Hours	<b>2000</b>	2134	498	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>44.7</b>	41.4	41.7	---
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.52	0.41	---



## CONTAMINATION

Particles >4µm		<b>2834</b>	24805	6602	---
Particles >6µm		<b>103</b>	108	826	---
Particles >14µm		<b>10</b>	6	37	---
ISO 4406:1999 (c)		<b>19/14/10</b>	22/14/10	20/17/12	---
Silicon	ppm	<b>5</b>	5	3	---
Sodium	ppm	<b>1</b>	<1	0	---
Potassium	ppm	<b>0</b>	0	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	<b>8</b>	5	2	---
Copper	ppm	<b>21</b>	21	7	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>0</b>	<1	<1	---
Chromium	ppm	<b>4</b>	1	<1	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>53</b>	76	102	---
Magnesium	ppm	<b>1</b>	0	0	---
Zinc	ppm	<b>417</b>	463	580	---
Phosphorus	ppm	<b>255</b>	407	430	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	<1	---

**Depot:** VOLVO8770  
**Unique No:** 10655141  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

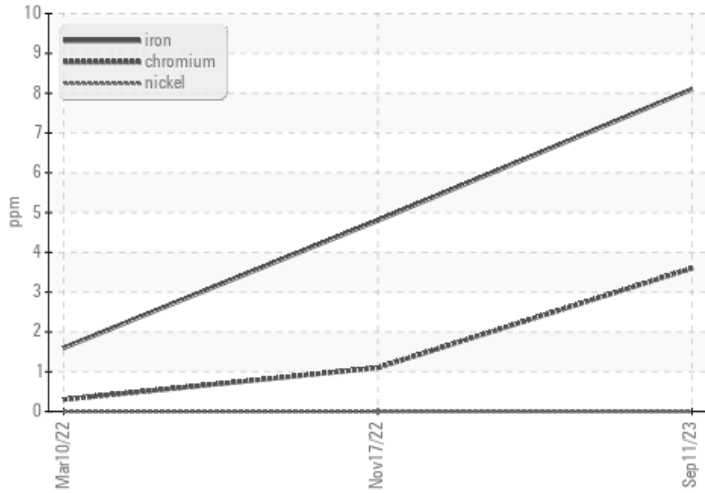


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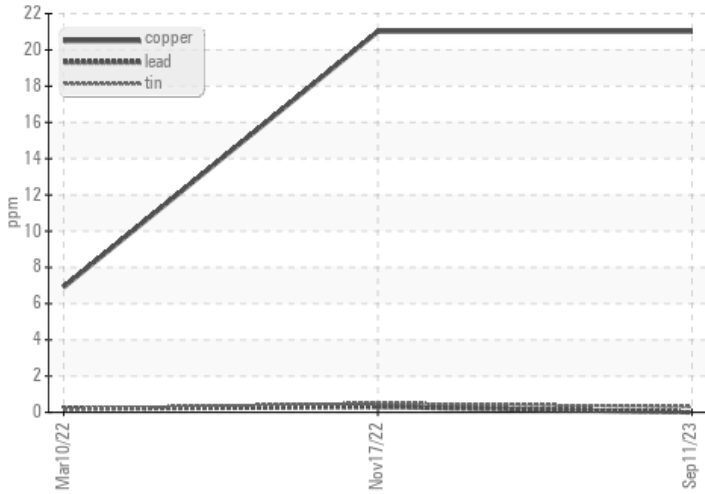


## VOLVO GRAPHS

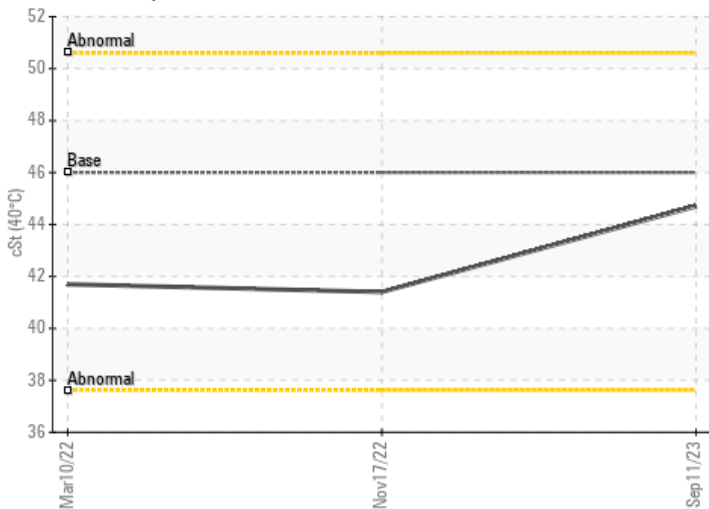
### Ferrous Alloys



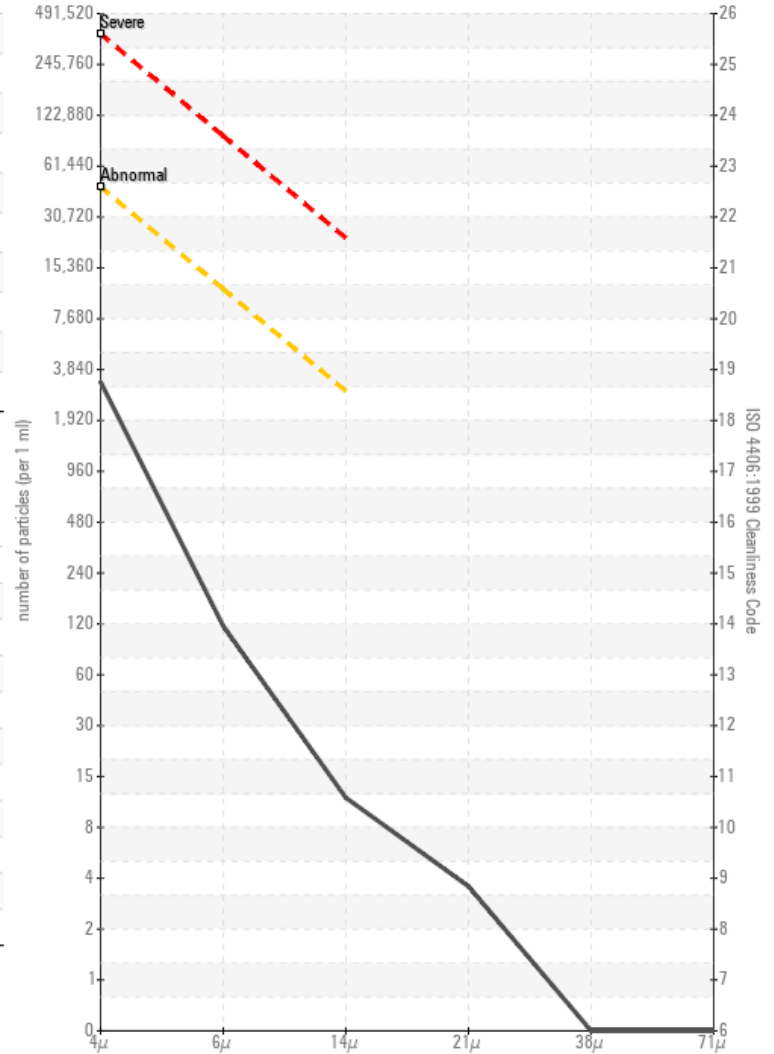
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

