



# CONSTRUCTION EQUIPMENT

## VOLVO EC480EL 315166 - HYDRAULIC SYSTEM



**Sample No:** VCP450807  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP450807</b>	VCP449251	VCP415844	---
Sample Date	<b>21 Jun 2024</b>	22 Dec 2023	21 Sep 2023	---
Machine Hours	<b>2104</b>	1242	2223	---
Oil Hours	<b>0</b>	0	2223	---
Oil Changed	<b>Changed</b>	Not Changd	Changed	---
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>38.8</b>	41.3	41.6	---
Acid Number (AN)	mg KOH/g	<b>0.65</b>	0.59	0.59	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>79285</b>	---	---	---
Particles >6µm		<b>17632</b>	---	---	---
Particles >14µm		<b>763</b>	---	---	---
ISO 4406:1999 (c)		<b>23/21/17</b>	---	---	---
Silicon	ppm	<b>8</b>	7	7	---
Sodium	ppm	<b>2</b>	1	2	---
Potassium	ppm	<b>1</b>	0	0	---

### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>4</b>	3	11	---
Copper	ppm	<b>27</b>	25	31	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	0	1	---
Aluminum	ppm	<b>&lt;1</b>	<1	<1	---
Chromium	ppm	<b>0</b>	0	<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>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>209</b>	221	239	---
Magnesium	ppm	<b>2</b>	<1	<1	---
Zinc	ppm	<b>564</b>	582	575	---
Phosphorus	ppm	<b>454</b>	453	419	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	0	---

**Depot:** VOLVO0090  
**Unique No:** 11099326  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024

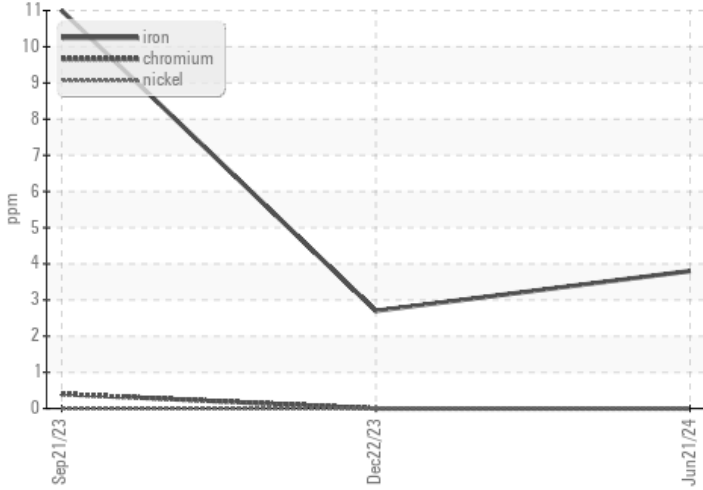


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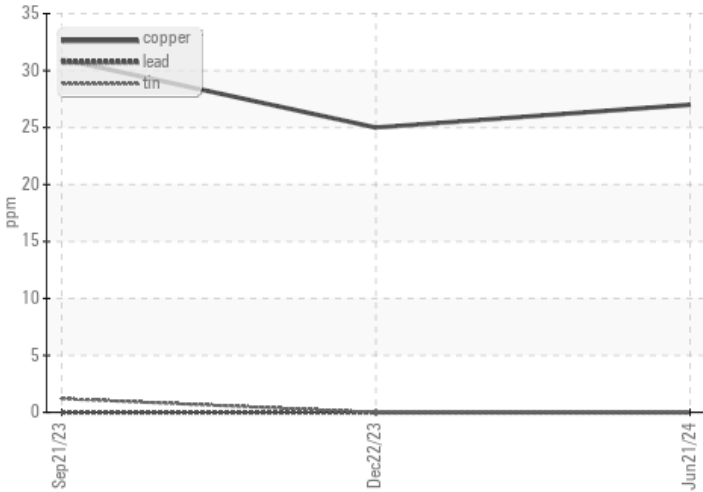


## VOLVO GRAPHS

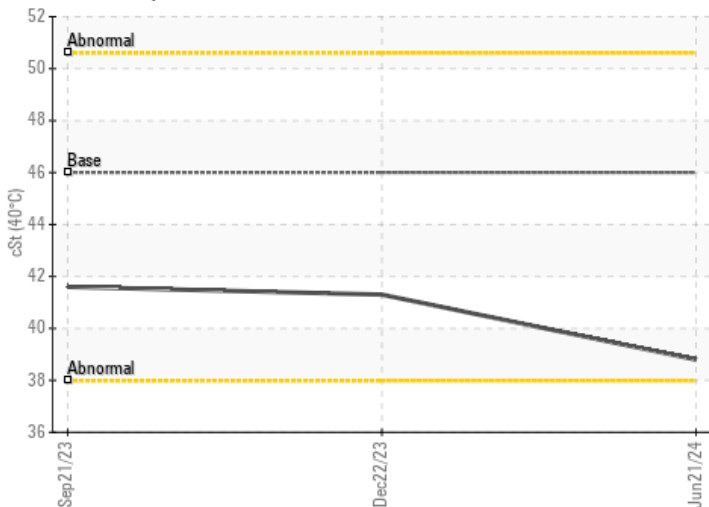
### Ferrous Alloys



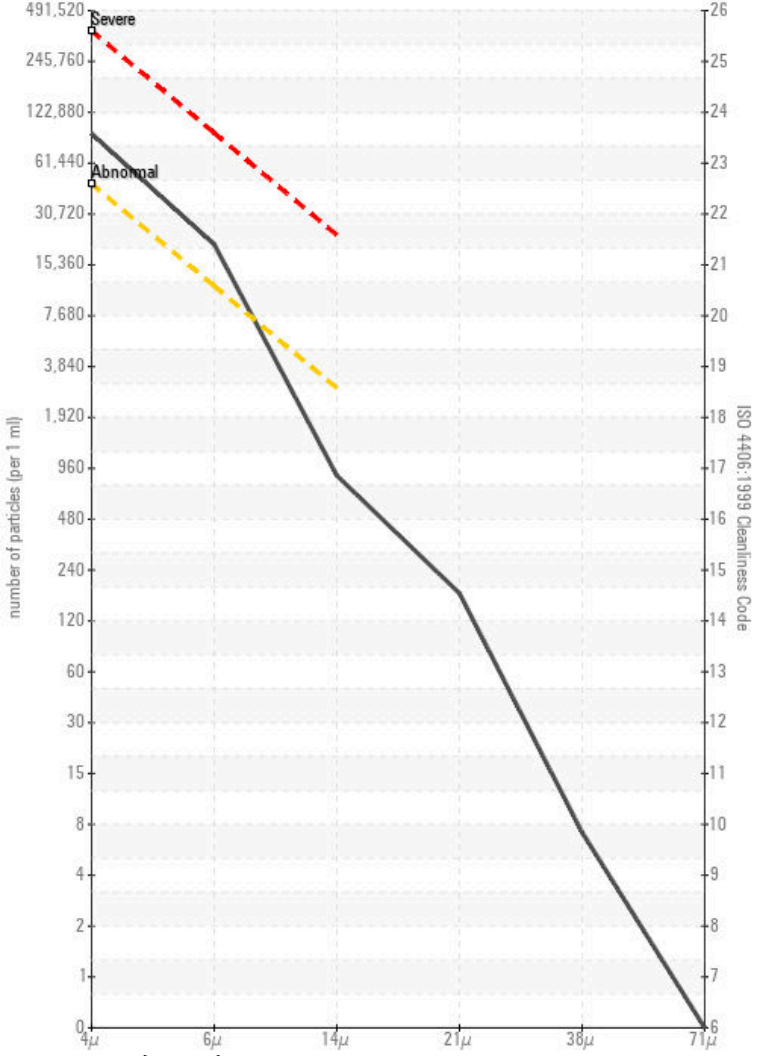
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

