



# CONSTRUCTION EQUIPMENT

## RENTAL VOLVO EC480 315121 - HYDRAULIC SYSTEM



**Sample No:** VCP440174  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** RENTAL



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### SAMPLE INFORMATION

Sample Number	<b>VCP440174</b>	VCP441859	VCP422873	---
Sample Date	<b>17 Jun 2024</b>	13 Oct 2023	30 Jun 2023	---
Machine Hours	<b>1782</b>	0	511	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	N/A	Not Chngd	---
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>41.0</b>	42.1	42.6	---
Acid Number (AN)	mg KOH/g	<b>0.56</b>	0.44	0.45	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>53905</b>	---	18998	---
Particles >6µm		<b>15713</b>	---	2653	---
Particles >14µm		<b>395</b>	---	67	---
ISO 4406:1999 (c)		<b>23/21/16</b>	---	21/19/13	---
Silicon	ppm	<b>4</b>	4	2	---
Sodium	ppm	<b>2</b>	<1	0	---
Potassium	ppm	<b>2</b>	<1	0	---



### WEAR METALS

Iron	ppm	<b>&lt;1</b>	<1	<1	---
Copper	ppm	<b>12</b>	9	7	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>&lt;1</b>	0	0	---
Chromium	ppm	<b>0</b>	0	0	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	<1	---



### ADDITIVES

Calcium	ppm	<b>84</b>	65	93	---
Magnesium	ppm	<b>0</b>	0	0	---
Zinc	ppm	<b>534</b>	541	538	---
Phosphorus	ppm	<b>425</b>	397	432	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	0	---

### Diagnosis

We recommend you service the filters on this component. 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.

**Depot:** VOLVO0093  
**Unique No:** 11096288  
**Signed:** Wes Davis  
**Report Date:** 25 Jun 2024

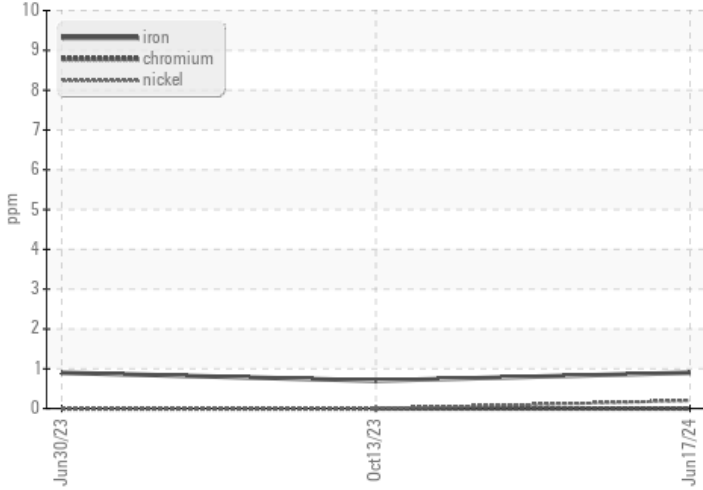


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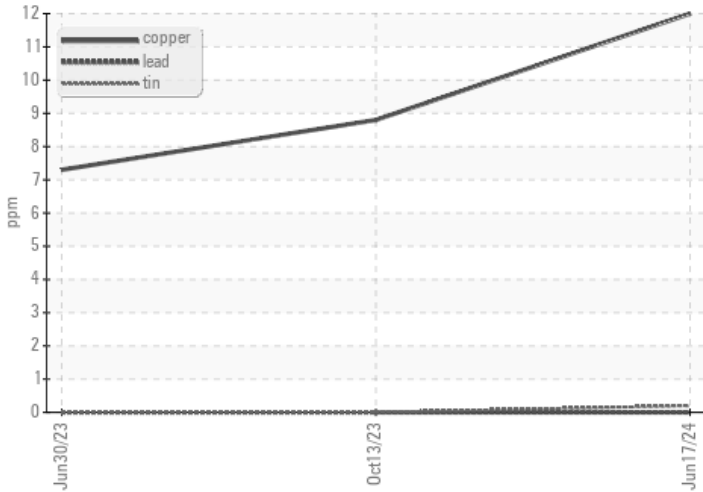


## GRAPHS

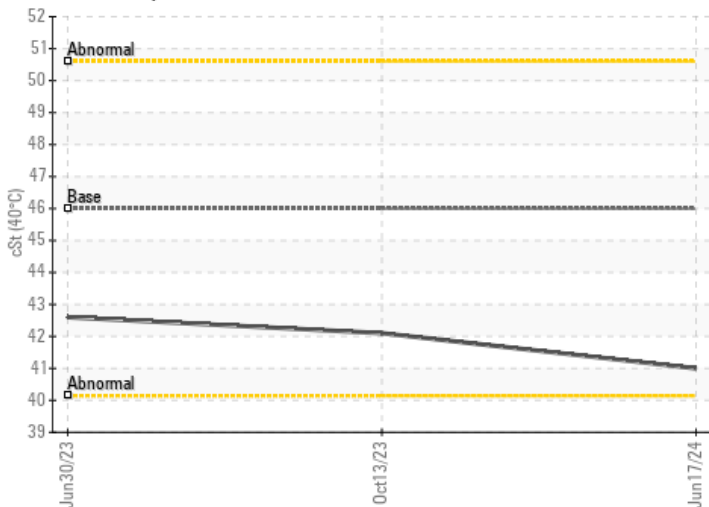
### Ferrous Alloys



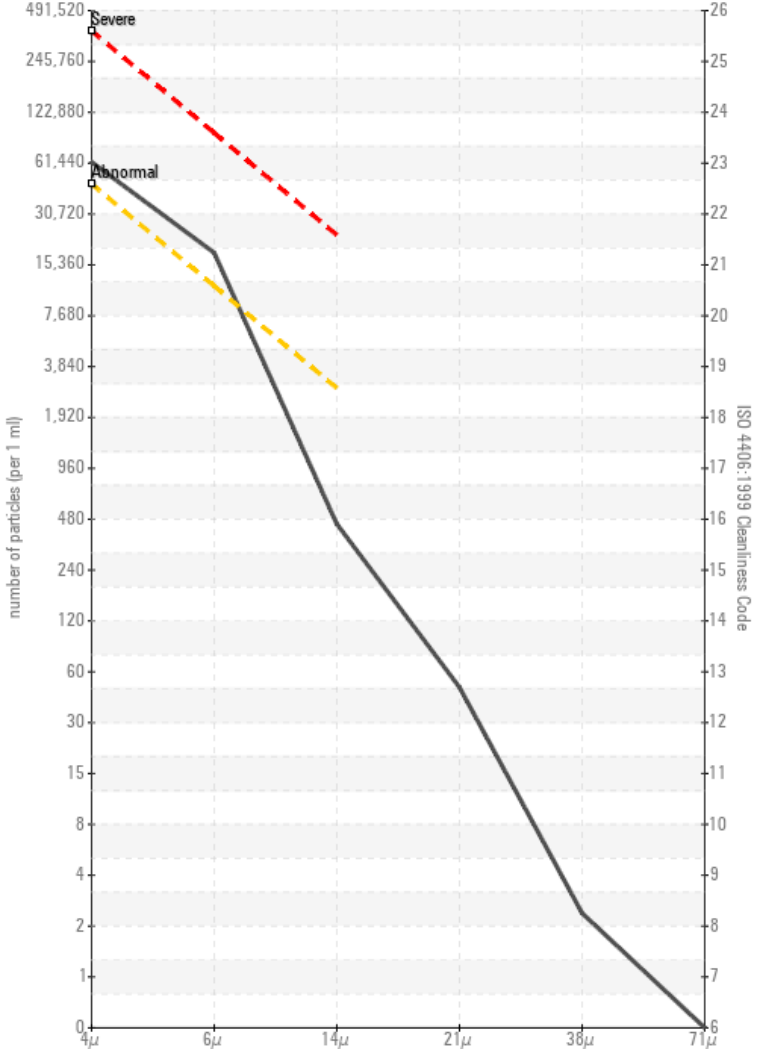
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

