



# CONSTRUCTION EQUIPMENT

## VOLVO EC300E 318112 - HYDRAULIC SYSTEM



**Sample No:** VCP305795

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP305795</b>	VCP418036	---	---
Sample Date	<b>05 Apr 2024</b>	04 Apr 2024	---	---
Machine Hours	<b>22</b>	22	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>N/A</b>	N/A	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

**COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE**  
 15101 ALABAMA HWY 20  
 MADISON, AL  
 US 35756  
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 T: (256)350-0006  
 F: (256)355-5250



### OIL CONDITION

Visc @ 40°C	cSt	<b>44.8</b>	44.8	---	---
Acid Number (AN)	mg KOH/g	<b>0.53</b>	0.55	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>3</b>	2	---	---
Sodium	ppm	<b>2</b>	2	---	---
Potassium	ppm	<b>2</b>	3	---	---



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>100</b>	100	---	---
Magnesium	ppm	<b>0</b>	0	---	---
Zinc	ppm	<b>542</b>	543	---	---
Phosphorus	ppm	<b>433</b>	432	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Tests do not reveal cause for reported problem. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** COWMAD  
**Unique No:** 10983081  
**Signed:** Don Baldrige  
**Report Date:** 22 Apr 2024

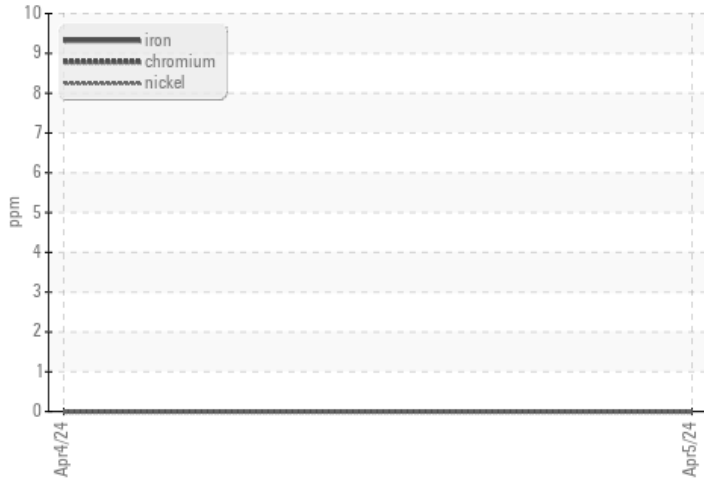


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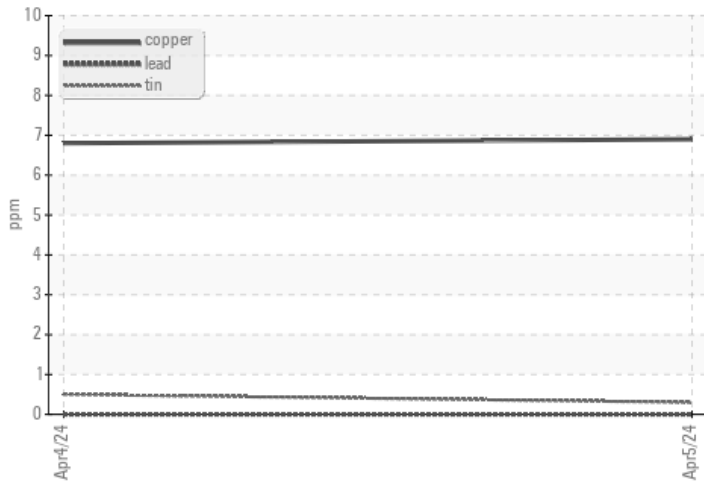


## GRAPHS

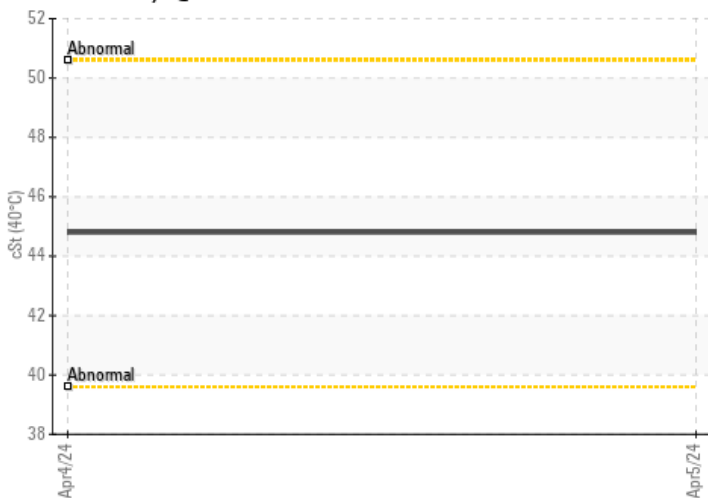
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

