



# CONSTRUCTION EQUIPMENT

## SPM634980-10 VOLVO EC220EL 315670 - HYDRAULIC SYSTEM



**Sample No:** VCP422346  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM634980-10



### SAMPLE INFORMATION

Sample Number	VCP422346	VCP433589	---	---
Sample Date	12 Dec 2023	03 Nov 2023	---	---
Machine Hours	896	582	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

### ALTA EQUIPMENT COMPANY

5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
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 T:  
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### OIL CONDITION

Visc @ 40°C	cSt	█42.9	█43.3	---	---
Acid Number (AN)	mg KOH/g	█0.79	█0.83	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		---	▲48370	---	---
Particles >6µm		---	▲11795	---	---
Particles >14µm		---	█521	---	---
ISO 4406:1999 (c)		---	23/21/16	---	---
Silicon	ppm	█7	█6	---	---
Sodium	ppm	█0	█2	---	---
Potassium	ppm	█<1	█<1	---	---

### Diagnosis

We recommend you service the filters on this component. We advise that you inspect for possible wear. 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. Moderate concentration of visible metal present. 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.



### WEAR METALS

Iron	ppm	█3	█<1	---	---
Copper	ppm	█17	█13	---	---
Lead	ppm	█0	█1	---	---
Tin	ppm	█0	█0	---	---
Aluminum	ppm	█2	█0	---	---
Chromium	ppm	█0	█0	---	---
Molybdenum	ppm	█0	█0	---	---
Nickel	ppm	█0	█<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█0	█<1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

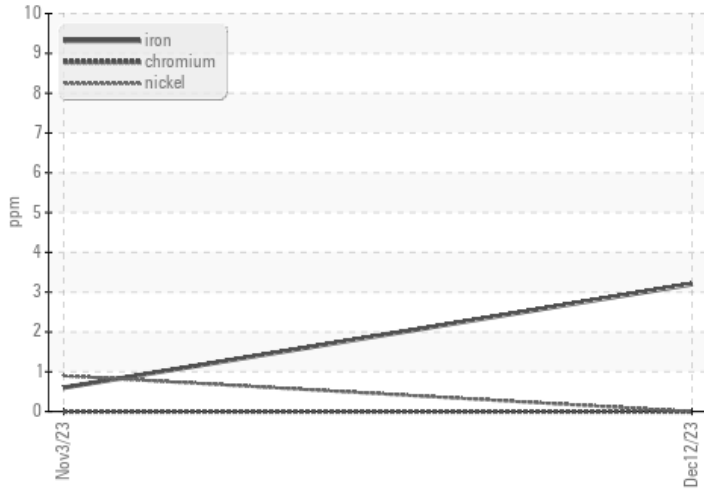
Calcium	ppm	█117	█128	---	---
Magnesium	ppm	█<1	█<1	---	---
Zinc	ppm	█710	█741	---	---
Phosphorus	ppm	█574	█564	---	---
Barium	ppm	█6	█0	---	---
Boron	ppm	█0	█0	---	---

**Depot:** VOLVO0090  
**Unique No:** 10795794  
**Signed:** Jonathan Hester  
**Report Date:** 22 Dec 2023

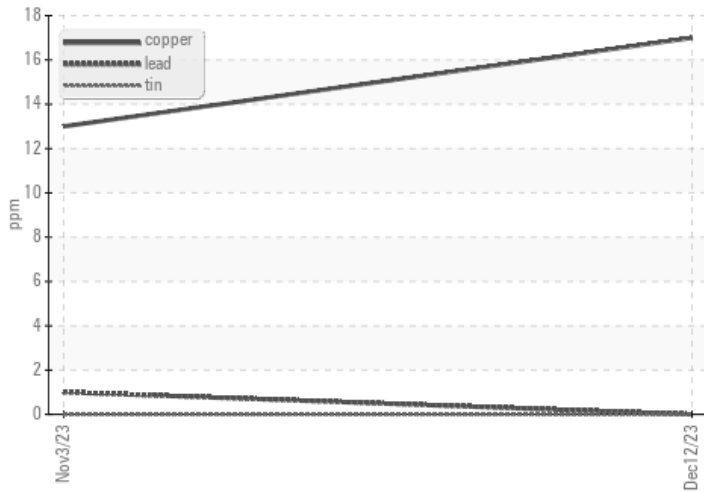


## GRAPHS

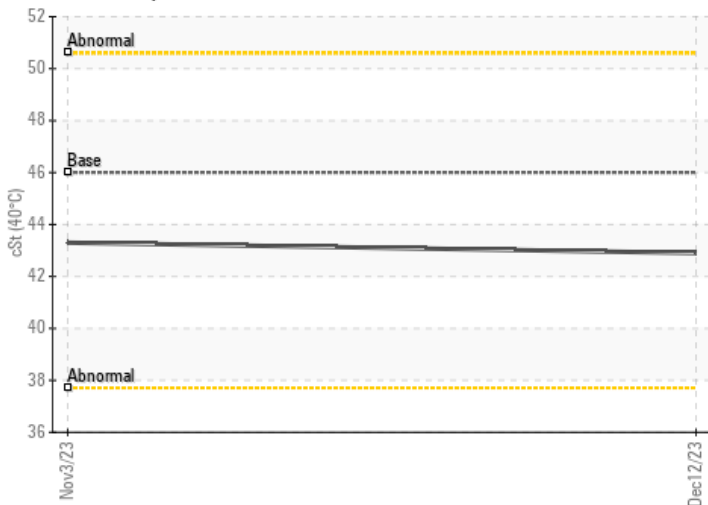
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

