



# CONSTRUCTION EQUIPMENT

## 9896 VOLVO EC220E 314249 - HYDRAULIC SYSTEM



**Sample No:** VCP388531  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** 9896



### SAMPLE INFORMATION

Sample Number	<b>VCP388531</b>	VCP325108	---	---
Sample Date	<b>07 Nov 2023</b>	10 Nov 2021	---	---
Machine Hours	<b>1121</b>	557	---	---
Oil Hours	<b>0</b>	557	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	43.3	---	---
Acid Number (AN)	mg KOH/g	<b>0.59</b>	0.430	---	---



### CONTAMINATION

Particles >4µm		<b>20272</b>	3223	---	---
Particles >6µm		<b>5750</b>	198	---	---
Particles >14µm		<b>330</b>	16	---	---
ISO 4406:1999 (c)		<b>22/20/16</b>	19/15/11	---	---
Silicon	ppm	<b>2</b>	2	---	---
Sodium	ppm	<b>0</b>	0	---	---
Potassium	ppm	<b>2</b>	0	---	---



### WEAR METALS

Iron	ppm	<b>3</b>	2	---	---
Copper	ppm	<b>27</b>	25	---	---
Lead	ppm	<b>&lt;1</b>	<1	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>3</b>	<1	---	---
Chromium	ppm	<b>&lt;1</b>	0	---	---
Molybdenum	ppm	<b>0</b>	0	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>&lt;1</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	0	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>94</b>	75	---	---
Magnesium	ppm	<b>22</b>	0	---	---
Zinc	ppm	<b>533</b>	527	---	---
Phosphorus	ppm	<b>397</b>	371	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	<1	---	---



### RECYCLE 1

4700 LAWRENCE ST  
 HYATTSVILLE, MD  
 US 20781

Contact: MIKE DESJARDINS  
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 T:  
 F:

### Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

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.

**Depot:** RECHYA  
**Unique No:** 10736611  
**Signed:** Wes Davis  
**Report Date:** 10 Nov 2023

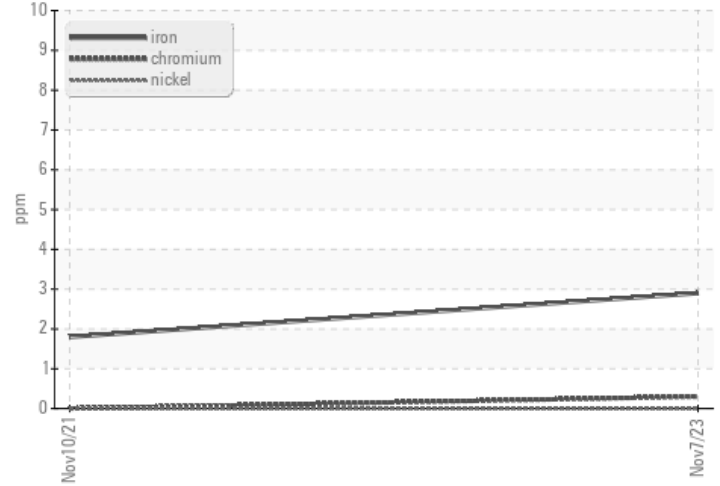


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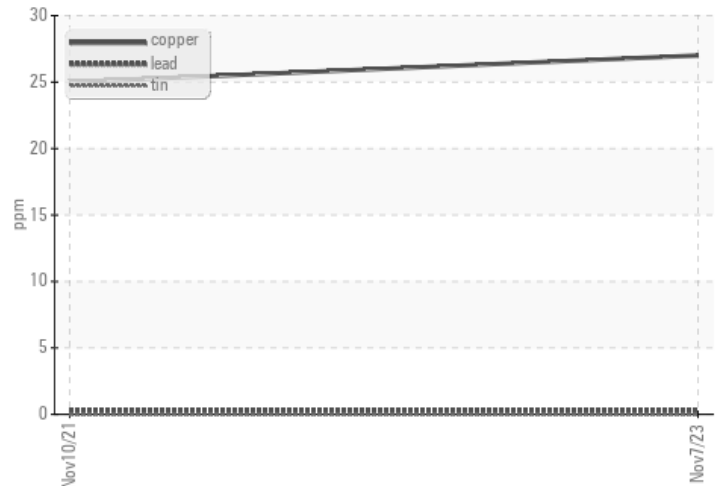


## GRAPHS

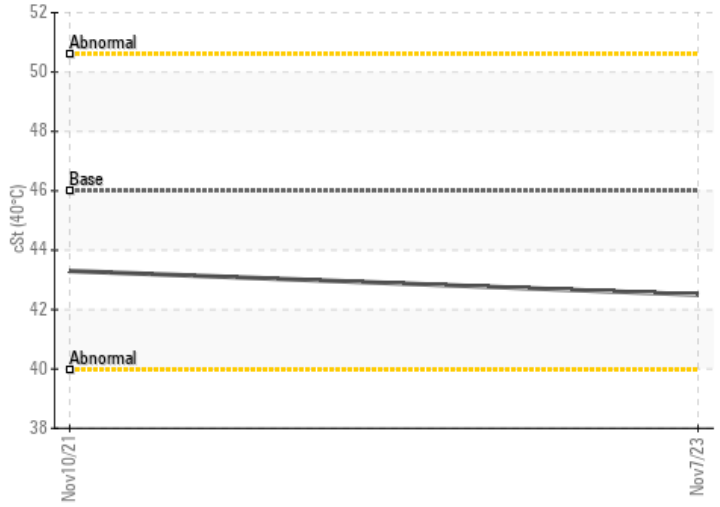
Ferrous Alloys



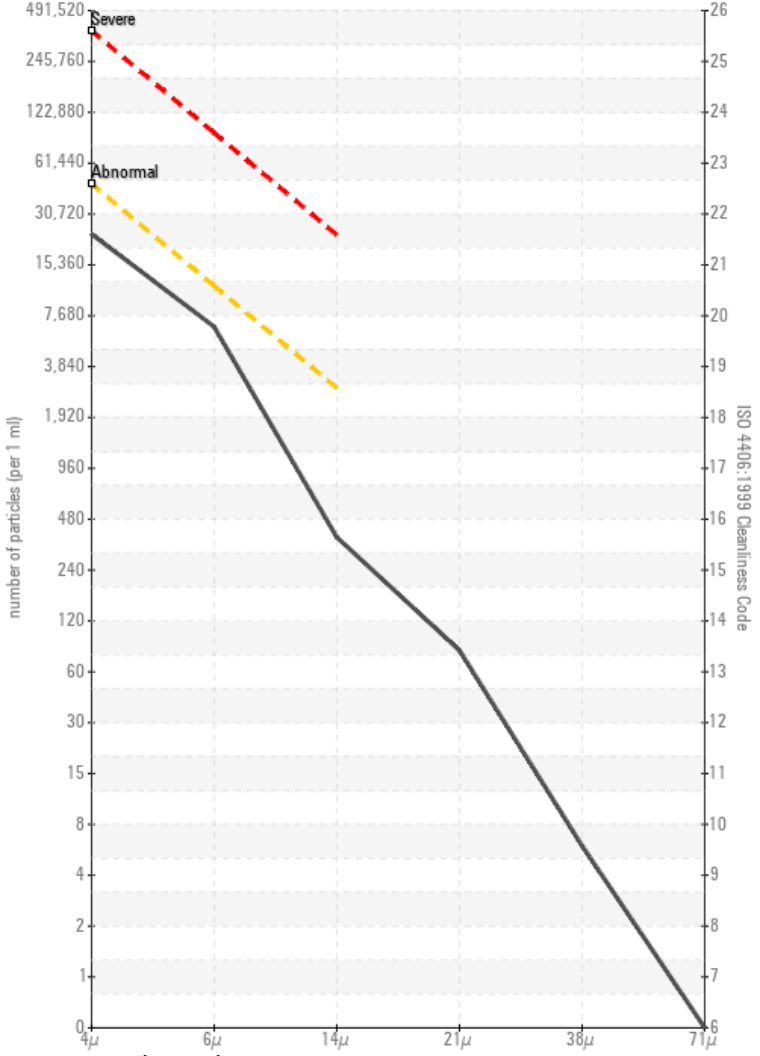
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

