



# CONSTRUCTION EQUIPMENT

## VOLVO ECR235EL 314118 - HYDRAULIC SYSTEM



**Sample No:** VCP0008120  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0008120</b>	VCP0008110	VCP313111	---
Sample Date	<b>05 Dec 2023</b>	09 Nov 2023	12 May 2021	---
Machine Hours	<b>522</b>	522	522	---
Oil Hours	<b>522</b>	522	522	---
Oil Changed	<b>N/A</b>	N/A	Not Changd	---
Sample Status	<b>NORMAL</b>	ATTENTION	ABNORMAL	---

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>46.9</b>	43.6	46.72	---
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.43	0.439	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>704</b>	8179	20505	---
Particles >6µm		<b>72</b>	1956	5827	---
Particles >14µm		<b>8</b>	143	539	---
ISO 4406:1999 (c)		<b>17/13/10</b>	20/18/14	22/20/16	---
Silicon	ppm	<b>2</b>	2	<1	---
Sodium	ppm	<b>0</b>	2	<1	---
Potassium	ppm	<b>&lt;1</b>	2	0	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>2</b>	2	1	---
Copper	ppm	<b>12</b>	21	21	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>&lt;1</b>	<1	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>3</b>	4	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	<1	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

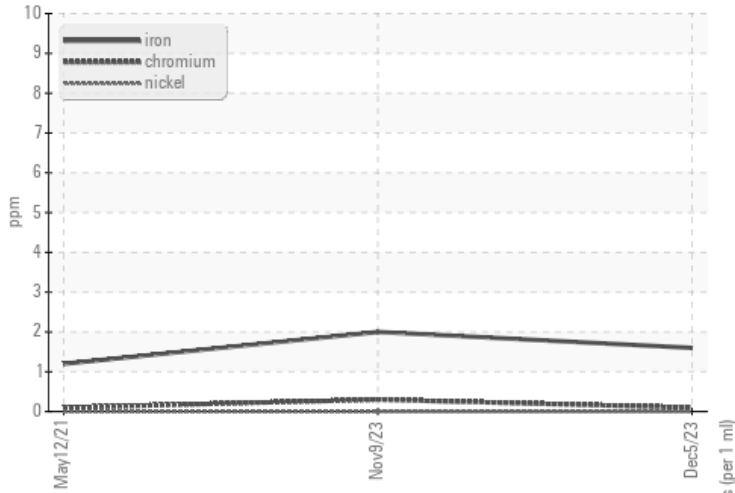
Calcium	ppm	<b>454</b>	543	71	---
Magnesium	ppm	<b>17</b>	5	0	---
Zinc	ppm	<b>461</b>	459	454	---
Phosphorus	ppm	<b>380</b>	375	356	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>4</b>	8	<1	---

**Depot:** VOLVO0092  
**Unique No:** 10777455  
**Signed:** Don Baldrige  
**Report Date:** 08 Dec 2023

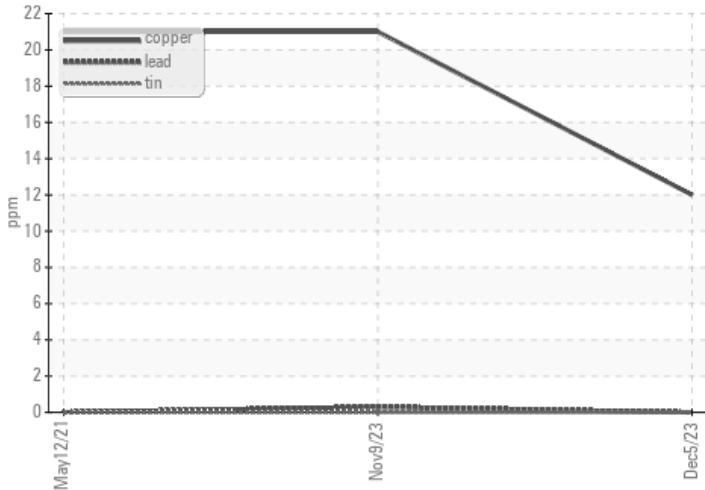


## GRAPHS

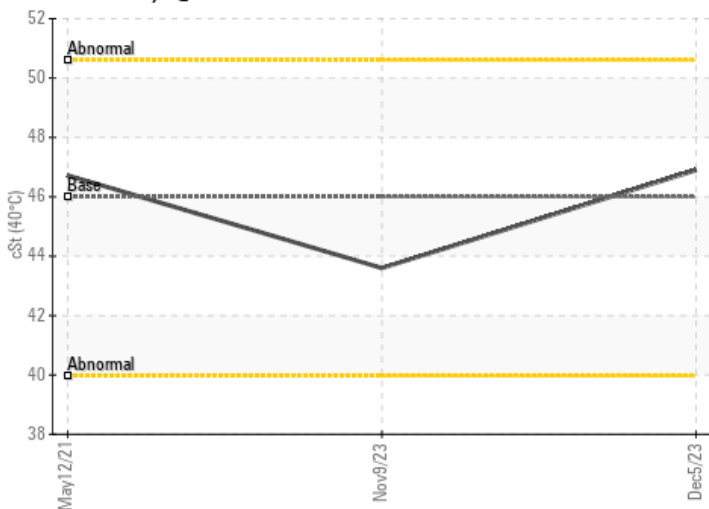
### Ferrous Alloys



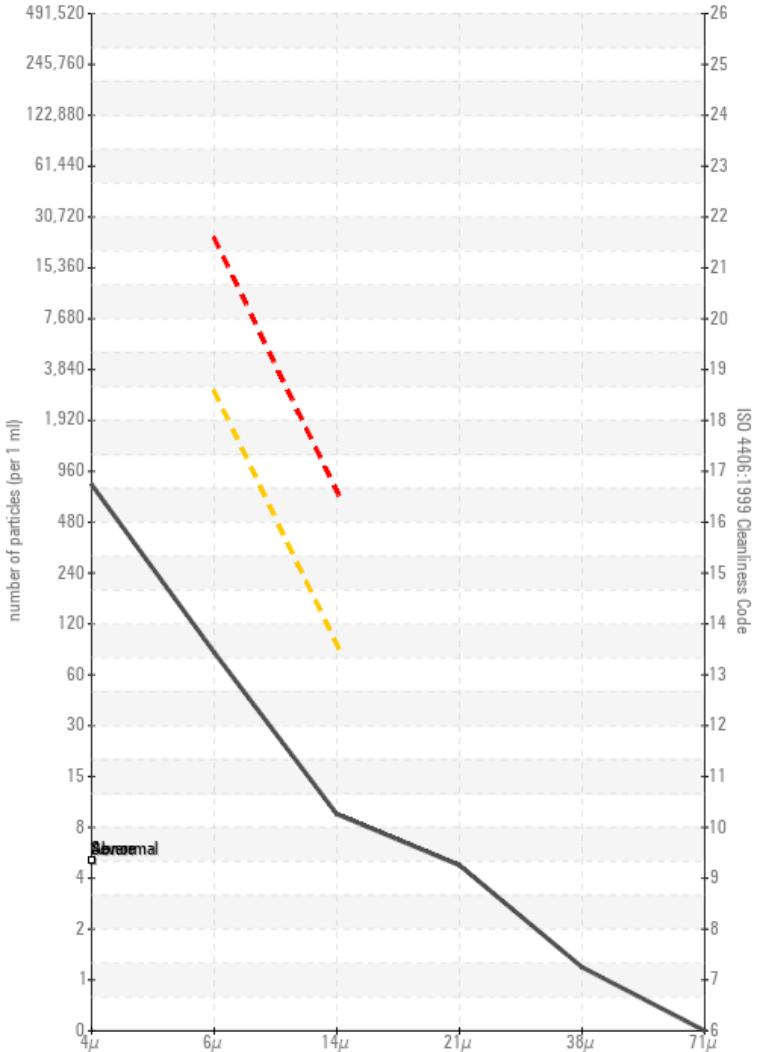
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

