



# CONSTRUCTION EQUIPMENT

## A11205 VOLVO ECR235 314555 - HYDRAULIC SYSTEM



**Sample No:** VCP412608  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A11205



### SAMPLE INFORMATION

Sample Number	<b>VCP412608</b>	VCP361439	VCP321679	---
Sample Date	<b>13 Oct 2023</b>	02 May 2022	28 Jul 2021	---
Machine Hours	<b>2475</b>	1172	520	---
Oil Hours	<b>2000</b>	0	520	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	44.5	44.9	---
Acid Number (AN)	mg KOH/g	<b>0.50</b>	0.54	0.611	---



### CONTAMINATION

Particles >4µm		<b>1889</b>	4271	566	---
Particles >6µm		<b>224</b>	977	50	---
Particles >14µm		<b>17</b>	82	5	---
ISO 4406:1999 (c)		<b>18/15/11</b>	19/17/14	16/13/10	---
Silicon	ppm	<b>3</b>	1	1	---
Sodium	ppm	<b>0</b>	1	<1	---
Potassium	ppm	<b>2</b>	0	<1	---

### 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>6</b>	2	2	---
Copper	ppm	<b>30</b>	23	16	---
Lead	ppm	<b>&lt;1</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	<1	0	---
Chromium	ppm	<b>&lt;1</b>	0	<1	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>0</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>520</b>	190	156	---
Magnesium	ppm	<b>7</b>	0	<1	---
Zinc	ppm	<b>773</b>	681	724	---
Phosphorus	ppm	<b>592</b>	582	542	---
Barium	ppm	<b>3</b>	0	0	---
Boron	ppm	<b>12</b>	3	1	---

**Depot:** JAAPHI  
**Unique No:** 10711768  
**Signed:** Don Baldrige  
**Report Date:** 27 Oct 2023

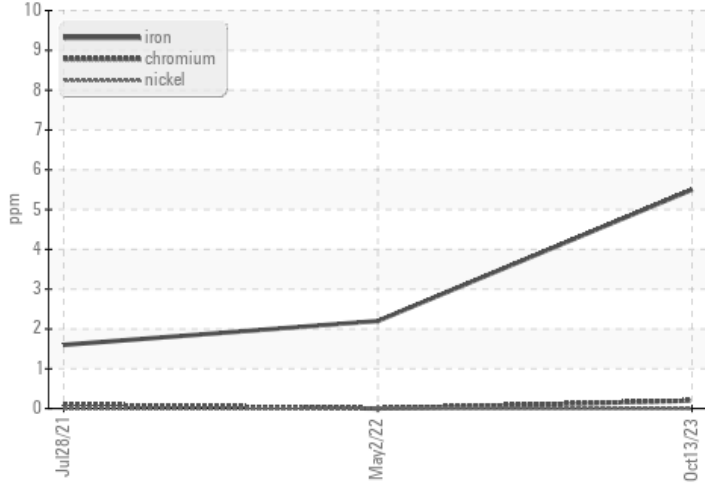


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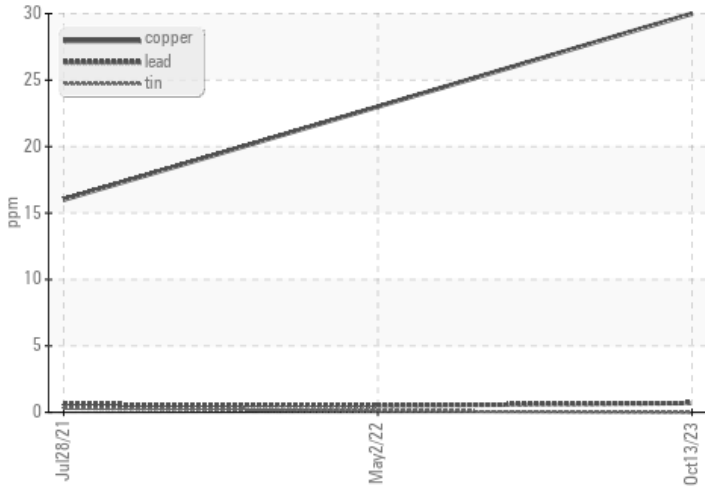


## VOLVO GRAPHS

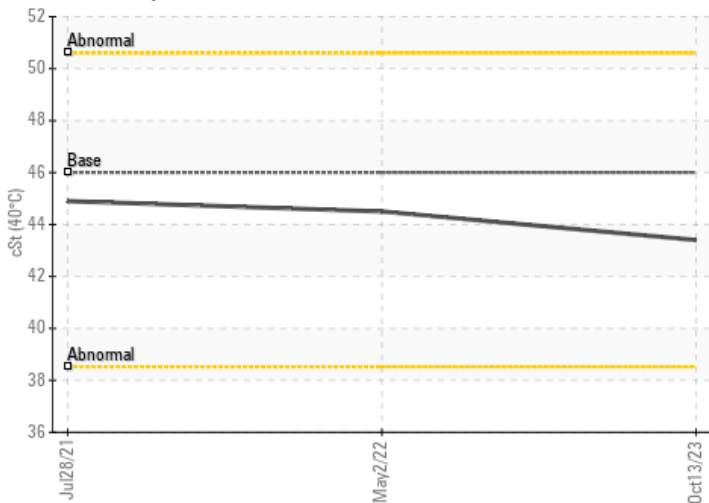
### Ferrous Alloys



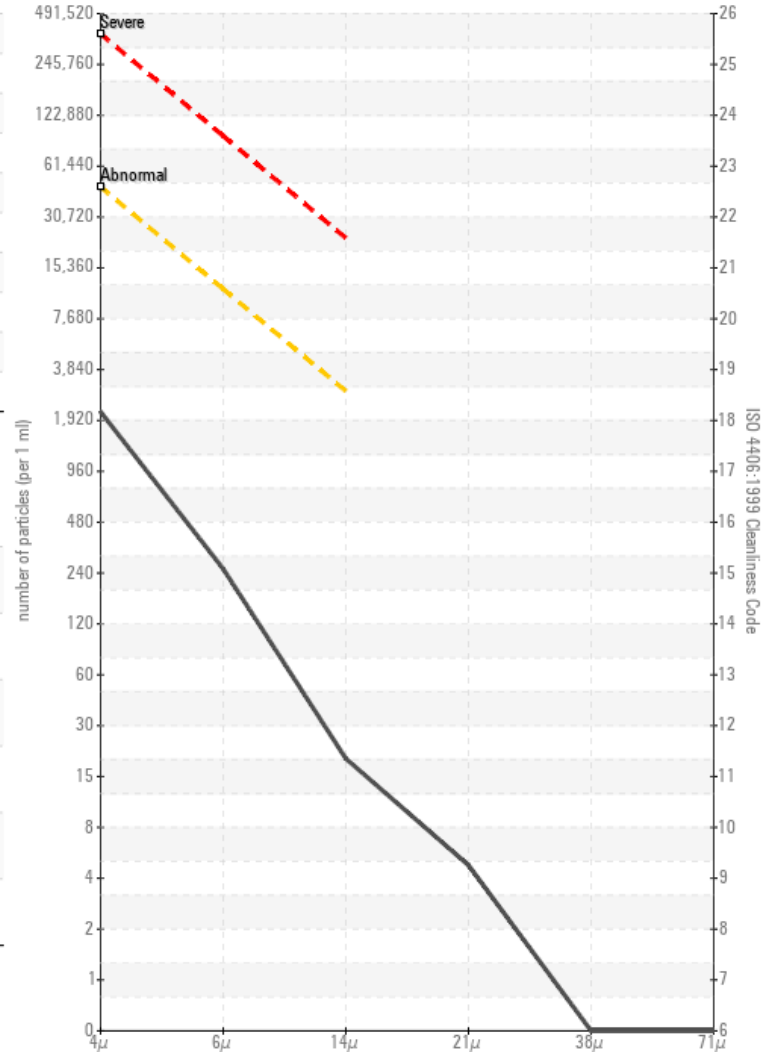
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

