



# CONSTRUCTION EQUIPMENT

## SPM646635-10 VOLVO EC350EL 314018 - HYDRAULIC SYSTEM



**Sample No:** VCP421351  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM646635-10



### SAMPLE INFORMATION

Sample Number	<b>VCP421351</b>	VCP323329	VCP299535	---
Sample Date	<b>10 Feb 2024</b>	30 Jun 2021	20 Jan 2021	---
Machine Hours	<b>4219</b>	1857	1299	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	42.5	43.0	---
Acid Number (AN)	mg KOH/g	<b>0.36</b>	0.424	0.419	---



### CONTAMINATION

Water	%	<b>NEG</b>	0.144	NEG	---
Particles >4µm		<b>21133</b>	---	3300	---
Particles >6µm		<b>2534</b>	---	97	---
Particles >14µm		<b>63</b>	---	5	---
ISO 4406:1999 (c)		<b>22/19/13</b>	---	19/14/10	---
Silicon	ppm	<b>2</b>	0	2	---
Sodium	ppm	<b>&lt;1</b>	<1	0	---
Potassium	ppm	<b>2</b>	0	<1	---

### Diagnosis

Resample at the next service interval to monitor. 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.



### WEAR METALS

Iron	ppm	<b>2</b>	2	2	---
Copper	ppm	<b>7</b>	24	19	---
Lead	ppm	<b>0</b>	<1	<1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>0</b>	0	0	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>1</b>	<1	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>141</b>	68	76	---
Magnesium	ppm	<b>4</b>	0	0	---
Zinc	ppm	<b>463</b>	490	505	---
Phosphorus	ppm	<b>357</b>	384	415	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	<1	---

**Depot:** VOLVO0093  
**Unique No:** 10875562  
**Signed:** Don Baldrige  
**Report Date:** 15 Feb 2024

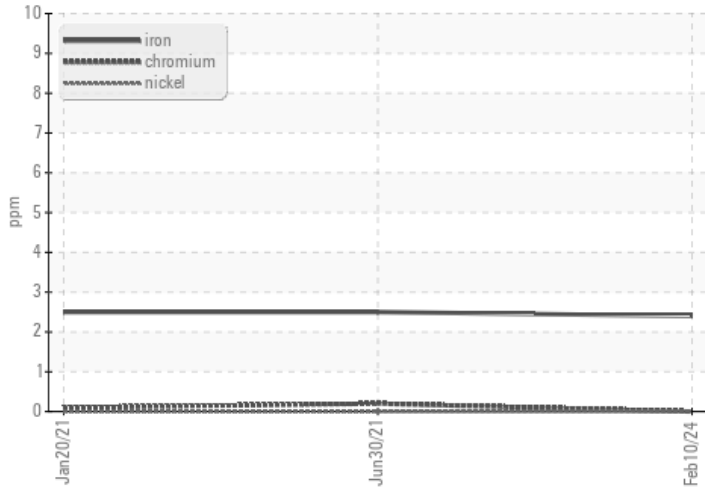


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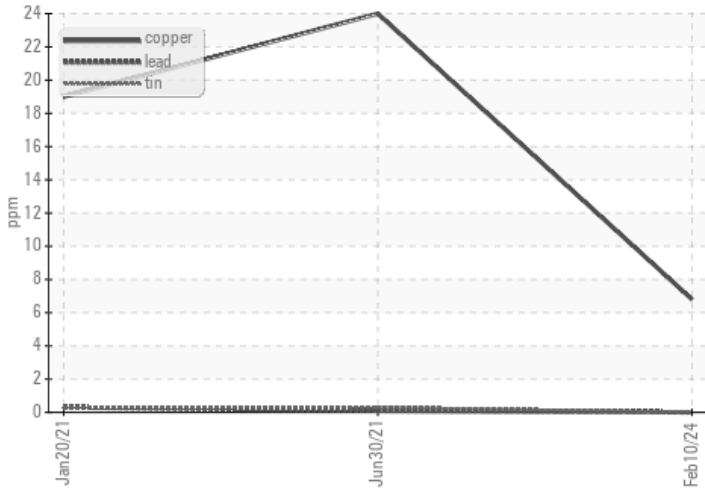


## GRAPHS

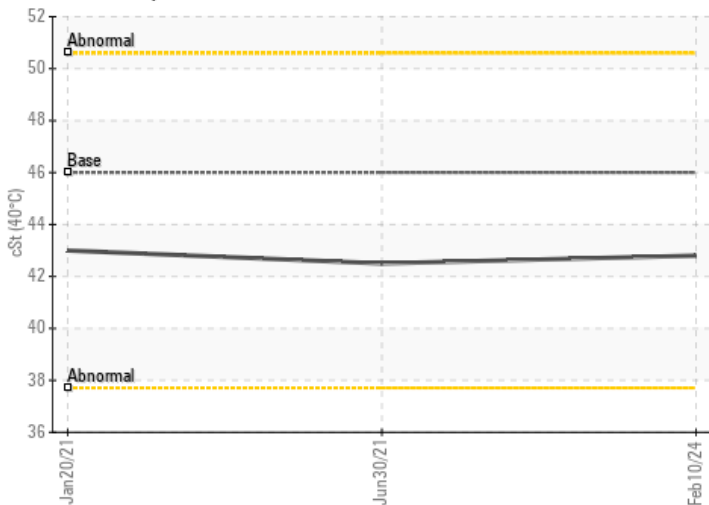
### Ferrous Alloys



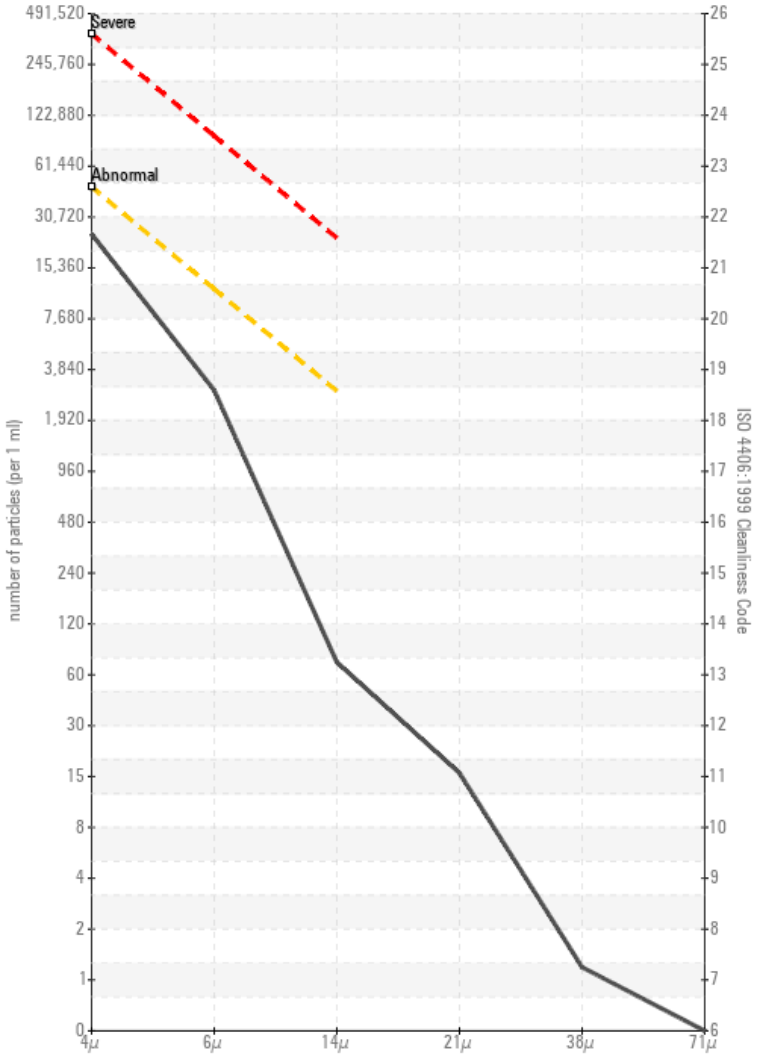
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

