



# CONSTRUCTION EQUIPMENT

## SPM659044-10 VOLVO A40G 341625 - HYDRAULIC SYSTEM



**Sample No:** VCP442647  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM659044-10



### SAMPLE INFORMATION

Sample Number	<b>VCP442647</b>	VCP300821	VCP299532	---
Sample Date	<b>11 Jan 2024</b>	15 Jan 2021	04 Jan 2021	---
Machine Hours	<b>8515</b>	4208	4161	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	Not Changd	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.3</b>	42.3	39.5	---
Acid Number (AN)	mg KOH/g	<b>0.28</b>	0.402	0.437	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>7199</b>	988	---	---
Particles >6µm		<b>2324</b>	236	---	---
Particles >14µm		<b>152</b>	26	---	---
ISO 4406:1999 (c)		<b>20/18/14</b>	17/15/12	---	---
Silicon	ppm	<b>8</b>	4	6	---
Sodium	ppm	<b>0</b>	1	2	---
Potassium	ppm	<b>1</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>19</b>	7	13	---
Copper	ppm	<b>9</b>	5	8	---
Lead	ppm	<b>4</b>	2	4	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	0	0	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>236</b>	209	314	---
Magnesium	ppm	<b>10</b>	6	7	---
Zinc	ppm	<b>466</b>	451	482	---
Phosphorus	ppm	<b>416</b>	358	366	---
Barium	ppm	<b>3</b>	0	0	---
Boron	ppm	<b>3</b>	6	8	---

**Depot:** VOLVO0090  
**Unique No:** 10834906  
**Signed:** Wes Davis  
**Report Date:** 19 Jan 2024

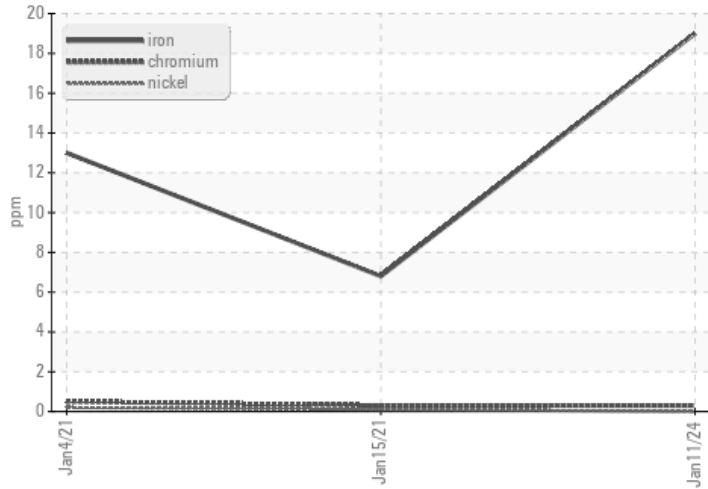


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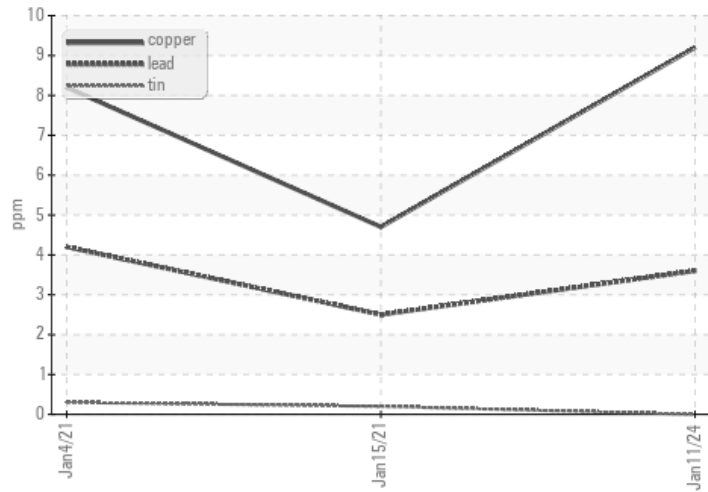


## VOLVO GRAPHS

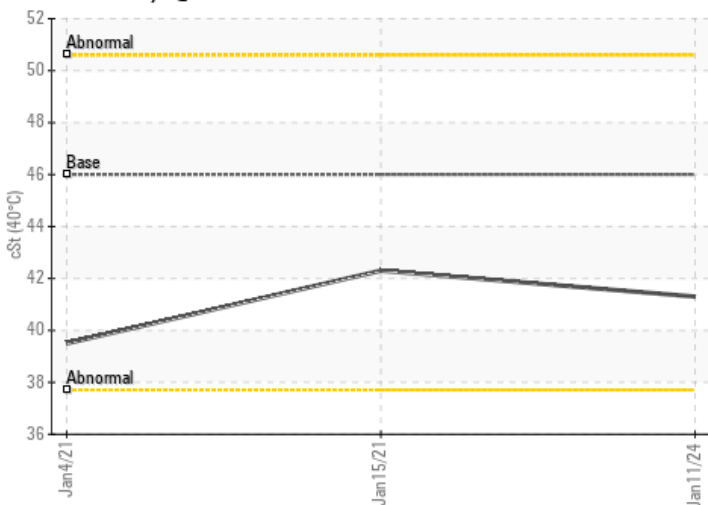
### Ferrous Alloys



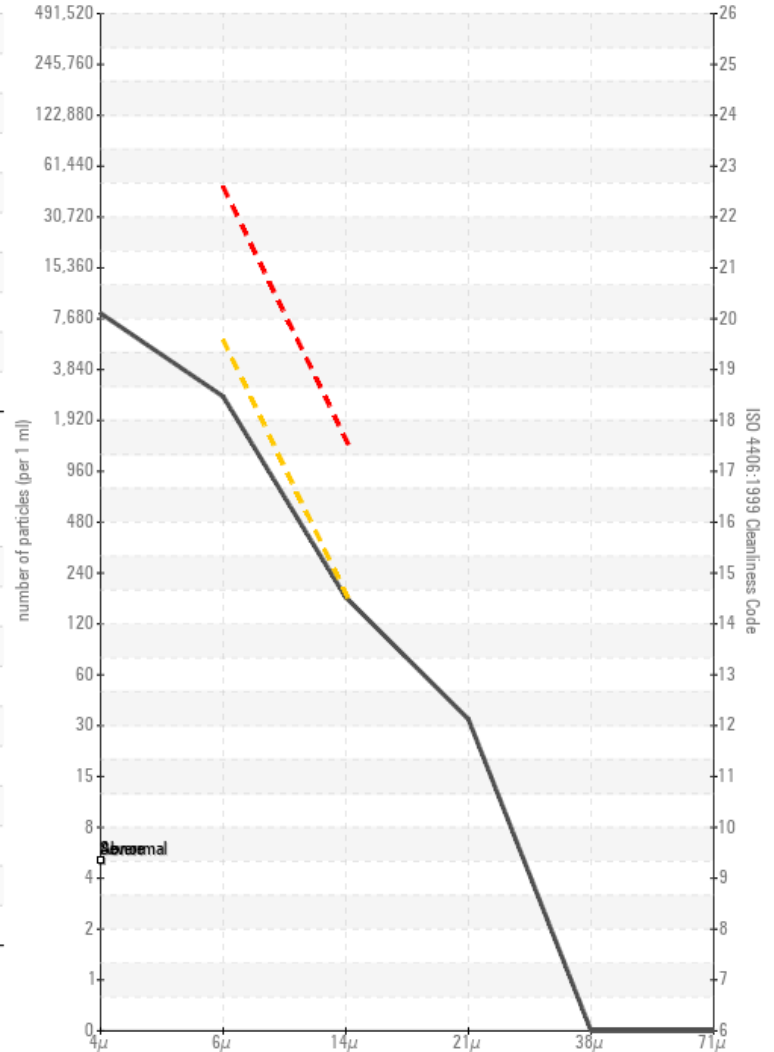
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

