



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352441 - HYDRAULIC SYSTEM



**Sample No:** VCP437747  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP437747</b>	VCP411087	VCP310524	VCP278841
Sample Date	<b>25 Jan 2024</b>	05 Jun 2023	03 Apr 2021	05 Sep 2020
Machine Hours	<b>7893</b>	6447	2173	430
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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

Visc @ 40°C	cSt	<b>43.8</b>	43.7	41.8	42.3
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.36	0.424	0.509



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>5087</b>	8100	---	15973
Particles >6µm		<b>556</b>	2069	---	5274
Particles >14µm		<b>17</b>	181	---	437
ISO 4406:1999 (c)		<b>20/16/11</b>	20/18/15	---	21/20/16
Silicon	ppm	<b>5</b>	4	4	4
Sodium	ppm	<b>&lt;1</b>	1	<1	0
Potassium	ppm	<b>&lt;1</b>	0	<1	0

### 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>15</b>	12	5	<1
Copper	ppm	<b>3</b>	3	3	2
Lead	ppm	<b>2</b>	1	2	1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	<1	0	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>5</b>	5	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>236</b>	196	77	45
Magnesium	ppm	<b>17</b>	6	1	<1
Zinc	ppm	<b>442</b>	445	411	419
Phosphorus	ppm	<b>366</b>	372	311	321
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>5</b>	3	<1	1

**Depot:** VOLVO0090  
**Unique No:** 10849416  
**Signed:** Wes Davis  
**Report Date:** 30 Jan 2024

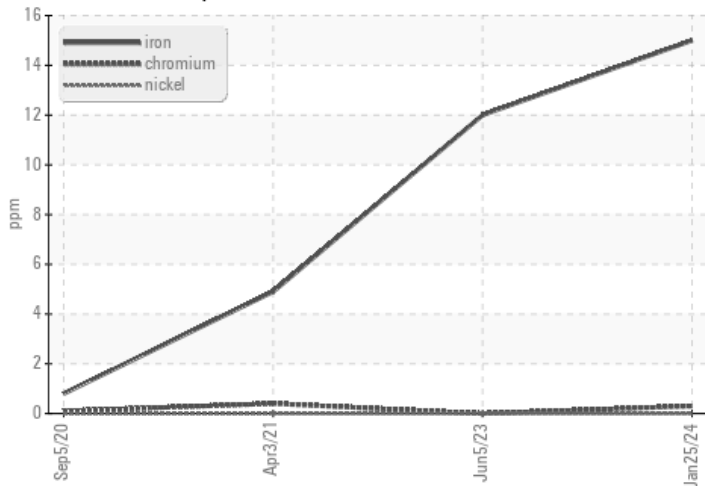


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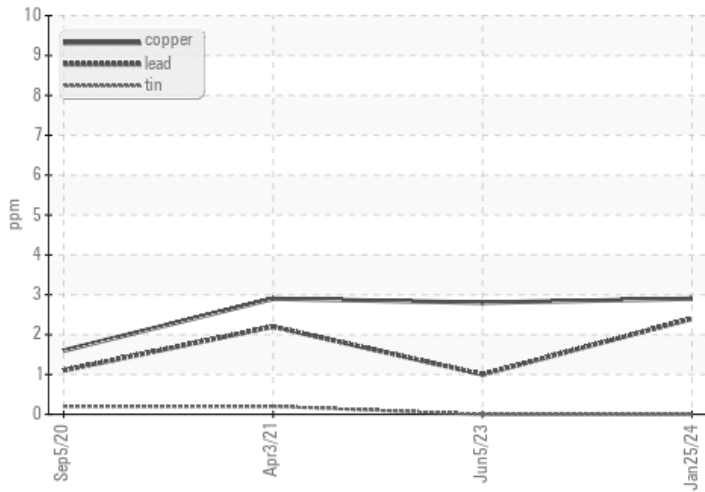


## GRAPHS

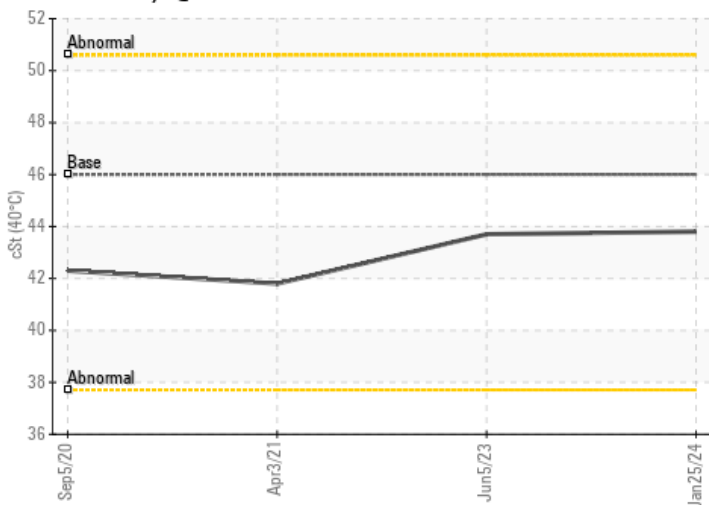
### Ferrous Alloys



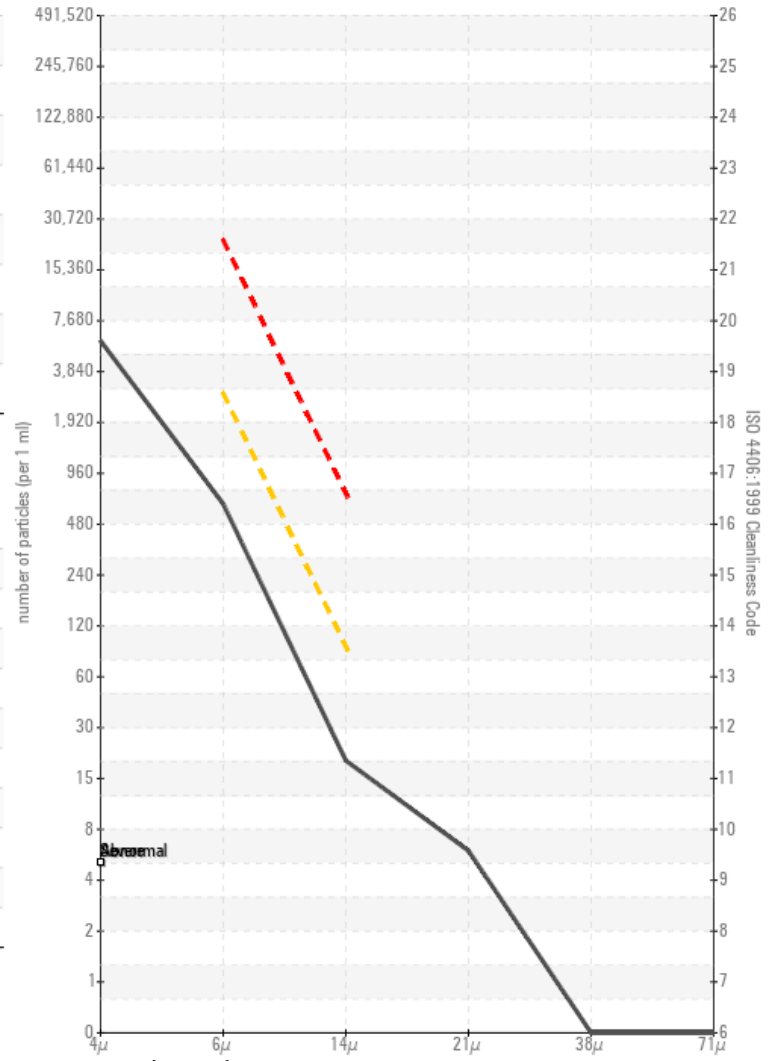
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

