



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352449 - HYDRAULIC SYSTEM



**Sample No:** VCP450874  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP450874</b>	VCP455456	VCP401176	VCP311431
Sample Date	<b>18 Jun 2024</b>	02 May 2024	25 Oct 2023	30 Apr 2021
Machine Hours	<b>8146</b>	8038	7491	2179
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	ABNORMAL

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

Visc @ 40°C	cSt	<b>43.3</b>	43.3	43.2	41.7
Acid Number (AN)	mg KOH/g	<b>0.32</b>	0.34	0.30	0.441



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>3019</b>	11644	---	---
Particles >6µm		<b>1016</b>	3571	---	---
Particles >14µm		<b>90</b>	94	---	---
ISO 4406:1999 (c)		<b>19/17/14</b>	21/19/14	---	---
Silicon	ppm	<b>5</b>	4	5	5
Sodium	ppm	<b>2</b>	2	0	<1
Potassium	ppm	<b>1</b>	<1	1	<1

### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present 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>12</b>	11	12	5
Copper	ppm	<b>3</b>	3	3	3
Lead	ppm	<b>2</b>	<1	3	2
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	0	1	0
Chromium	ppm	<b>1</b>	<1	1	<1
Molybdenum	ppm	<b>0</b>	<1	1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>107</b>	111	90	59
Magnesium	ppm	<b>9</b>	12	7	1
Zinc	ppm	<b>438</b>	440	431	404
Phosphorus	ppm	<b>340</b>	343	345	309
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	<1

**Depot:** VOLVO0090  
**Unique No:** 11099322  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024

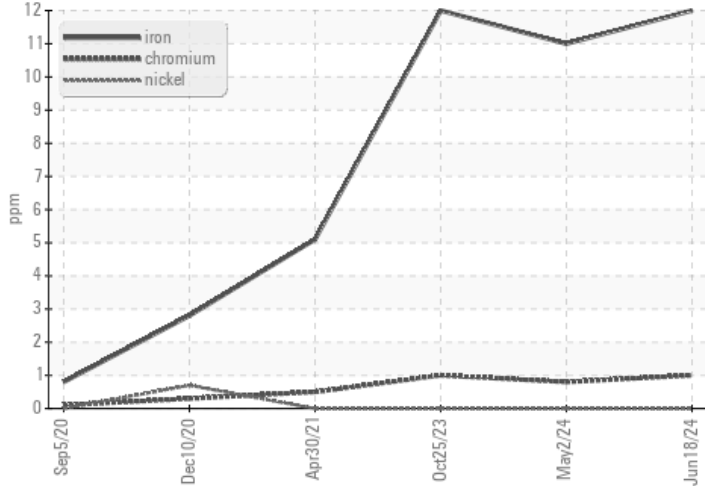


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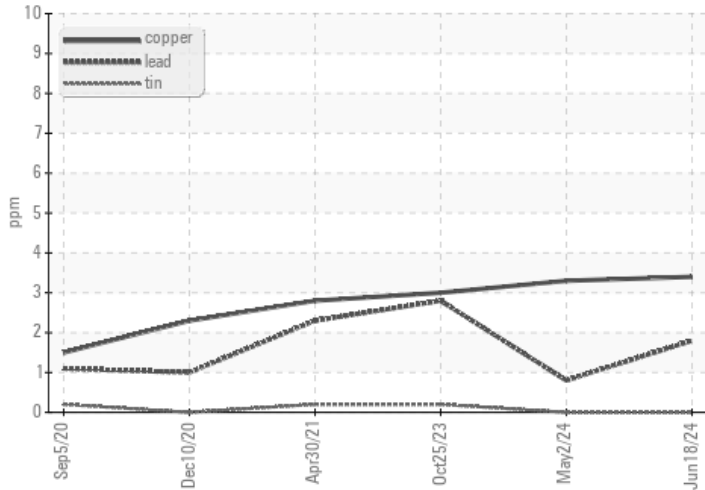


## VOLVO GRAPHS

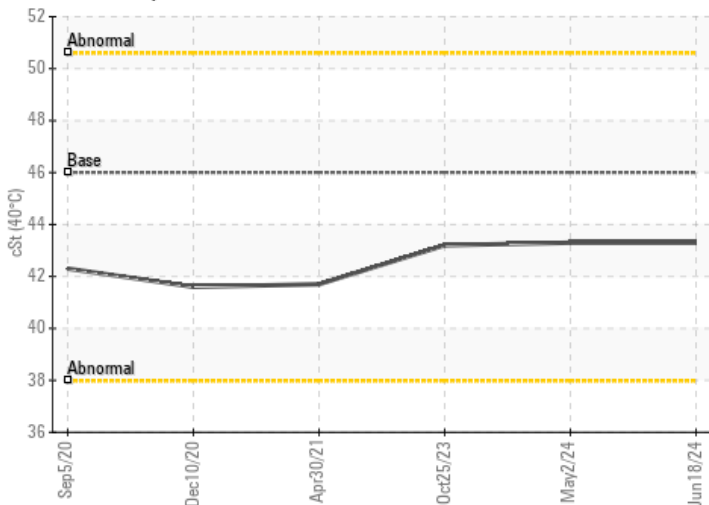
### Ferrous Alloys



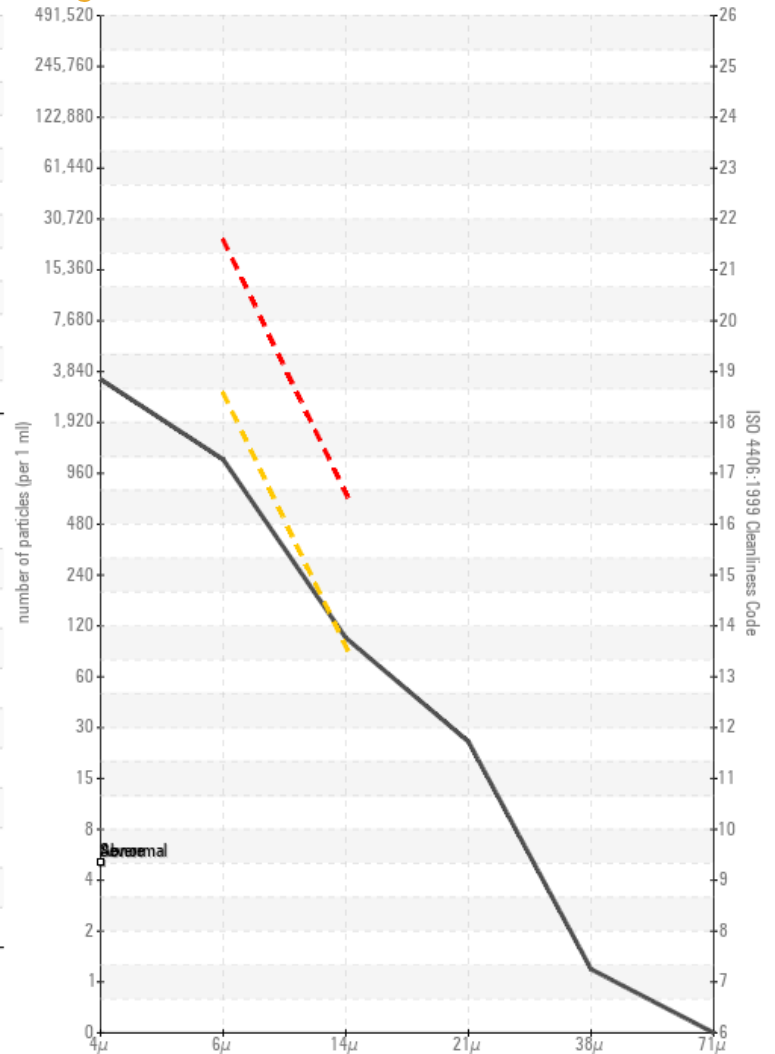
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

