



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352449 - HYDRAULIC SYSTEM



**Sample No:** VCP455456  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP455456</b>	VCP401176	VCP311431	VCP294641
Sample Date	<b>02 May 2024</b>	25 Oct 2023	30 Apr 2021	10 Dec 2020
Machine Hours	<b>8038</b>	7491	2179	1163
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>	ABNORMAL	ABNORMAL	NORMAL

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

Visc @ 40°C	cSt	<b>43.3</b>	43.2	41.7	41.6
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.30	0.441	0.378



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>11644</b>	---	---	8847
Particles >6µm		<b>3571</b>	---	---	1912
Particles >14µm		<b>94</b>	---	---	88
ISO 4406:1999 (c)		<b>21/19/14</b>	---	---	20/18/14
Silicon	ppm	<b>4</b>	5	5	5
Sodium	ppm	<b>2</b>	0	<1	<1
Potassium	ppm	<b>&lt;1</b>	1	<1	0

### Diagnosis

We recommend you service the filters on this component. 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>11</b>	12	5	3
Copper	ppm	<b>3</b>	3	3	2
Lead	ppm	<b>&lt;1</b>	3	2	1
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>0</b>	1	0	0
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	<1	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>111</b>	90	59	53
Magnesium	ppm	<b>12</b>	7	1	0
Zinc	ppm	<b>440</b>	431	404	438
Phosphorus	ppm	<b>343</b>	345	309	343
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	<1	0

**Depot:** VOLVO0090  
**Unique No:** 11015932  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024

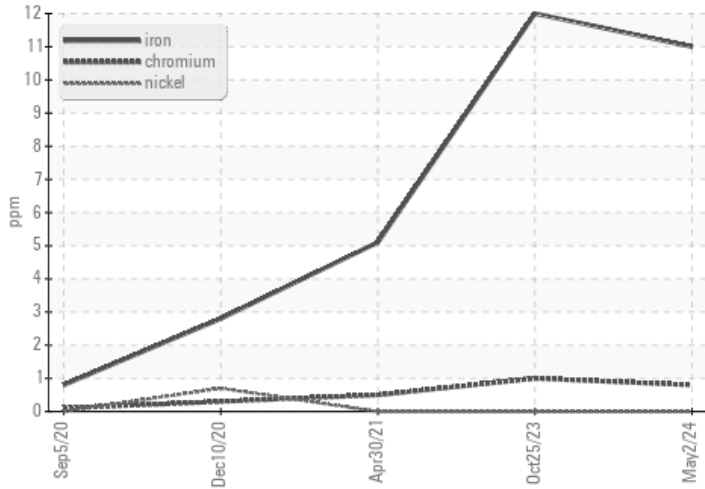


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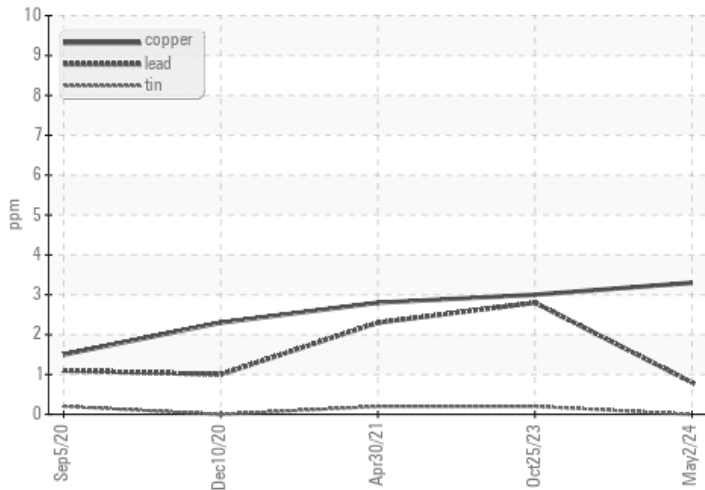


## VOLVO GRAPHS

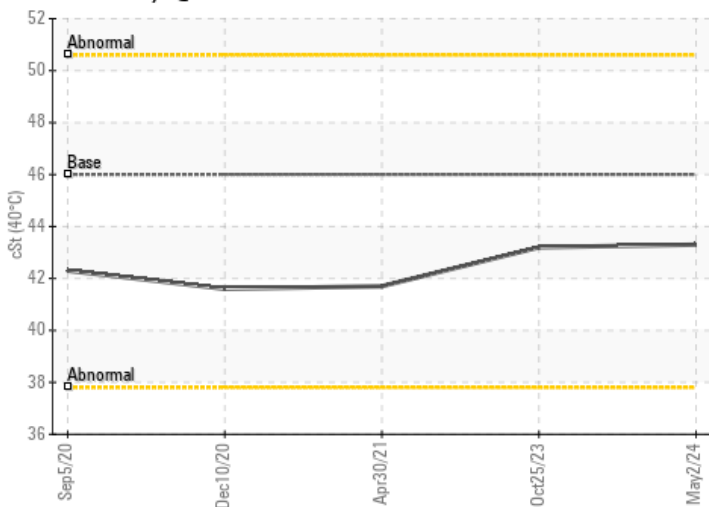
### Ferrous Alloys



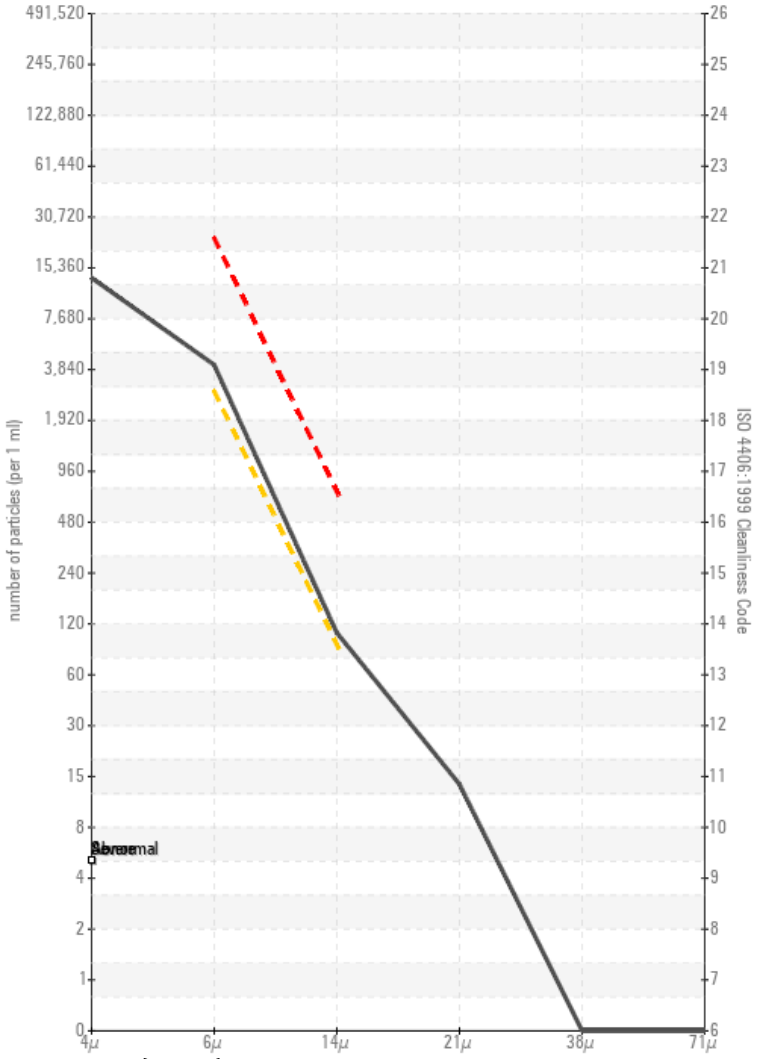
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

