



# CONSTRUCTION EQUIPMENT

## SWA534849-10 VOLVO A40G 342112 - HYDRAULIC SYSTEM



**Sample No:** VCP438436  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA534849-10



### SAMPLE INFORMATION

Sample Number	<b>VCP438436</b>	VCP323487	VCP299512	VCP289855
Sample Date	<b>27 Apr 2024</b>	16 Jun 2021	07 Jan 2021	30 Oct 2020
Machine Hours	<b>7700</b>	6149	5369	4895
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	N/A	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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

Visc @ 40°C	cSt	<b>45.5</b>	43.9	44.2	42.7
Acid Number (AN)	mg KOH/g	<b>0.61</b>	0.321	0.294	0.375



### CONTAMINATION

Water	%	<b>0.114</b>	NEG	NEG	NEG
Particles >4µm		---	---	4345	---
Particles >6µm		---	---	1480	---
Particles >14µm		---	---	169	---
ISO 4406:1999 (c)		---	---	19/18/15	---
Silicon	ppm	<b>4</b>	7	31	11
Sodium	ppm	<b>1</b>	2	3	3
Potassium	ppm	<b>0</b>	0	0	<1

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>3</b>	7	7	10
Copper	ppm	<b>3</b>	4	3	7
Lead	ppm	<b>&lt;1</b>	2	1	3
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	4	2	6
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

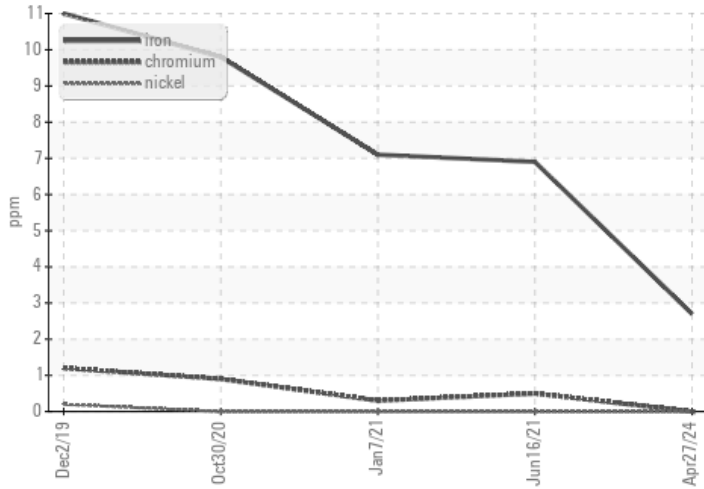
Calcium	ppm	<b>411</b>	87	72	84
Magnesium	ppm	<b>6</b>	6	8	2
Zinc	ppm	<b>542</b>	424	378	421
Phosphorus	ppm	<b>440</b>	324	302	330
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	4	2	6

**Depot:** VOLVO0092  
**Unique No:** 11006357  
**Signed:** Doug Bogart  
**Report Date:** 02 May 2024

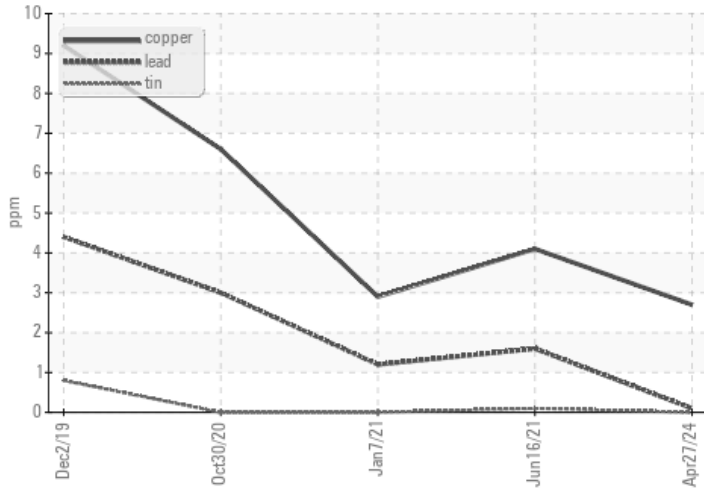


## GRAPHS

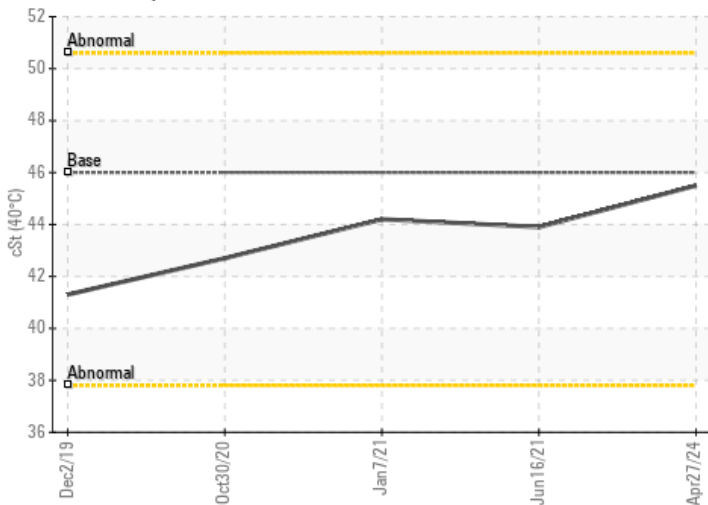
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

