



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341 163 - HYDRAULIC SYSTEM



**Sample No:** VCP441188  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP441188</b>	VCP420019	VCP259505	---
Sample Date	<b>08 May 2024</b>	17 Nov 2023	18 Jul 2020	---
Machine Hours	<b>10842</b>	9855	6280	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.7</b>	44.3	41.6	---
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.40	0.554	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		---	12633	2153	---
Particles >6µm		---	1990	338	---
Particles >14µm		---	79	33	---
ISO 4406:1999 (c)		---	21/18/13	18/16/12	---
Silicon	ppm	<b>6</b>	4	8	---
Sodium	ppm	<b>2</b>	<1	4	---
Potassium	ppm	<b>0</b>	0	<1	---

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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. Moderate concentration of visible dirt/debris 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>3</b>	2	10	---
Copper	ppm	<b>6</b>	4	7	---
Lead	ppm	<b>1</b>	<1	3	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	1	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>5</b>	5	1	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>1</b>	0	<1	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>320</b>	252	288	---
Magnesium	ppm	<b>19</b>	0	8	---
Zinc	ppm	<b>508</b>	454	500	---
Phosphorus	ppm	<b>421</b>	360	366	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>5</b>	2	5	---

**Depot:** VOLVO0090  
**Unique No:** 11023120  
**Signed:** Don Baldrige  
**Report Date:** 14 May 2024

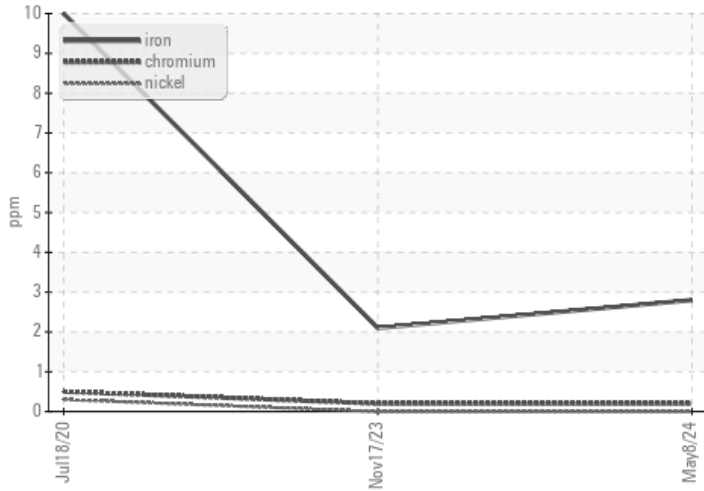


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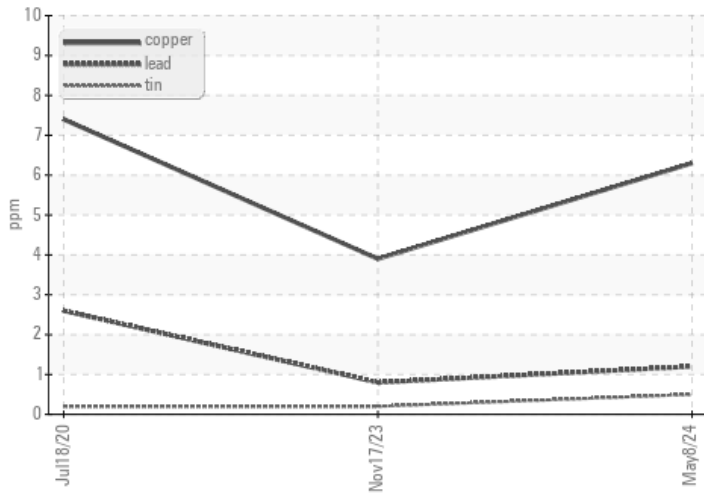


## GRAPHS

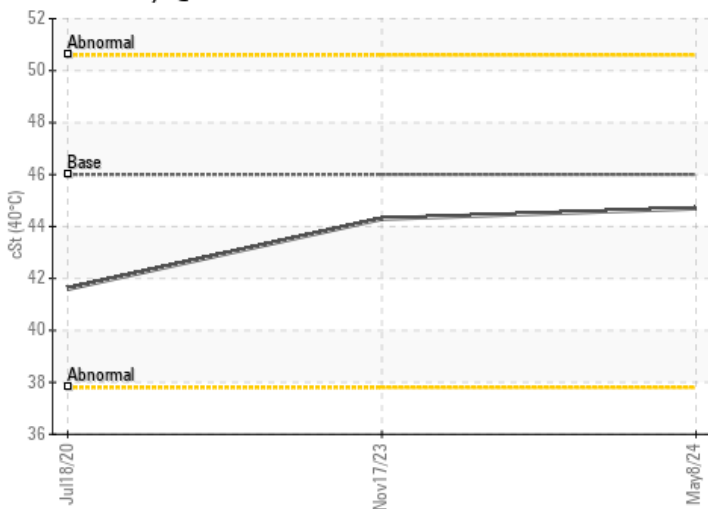
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

