



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352560 - HYDRAULIC SYSTEM



**Sample No:** VCP408606  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP408606</b>	VCP337385	VCP318272	---
Sample Date	<b>30 May 2023</b>	12 Aug 2021	11 Aug 2021	---
Machine Hours	<b>4201</b>	1177	1177	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.1</b>	43.1	39.6	---
Acid Number (AN)	mg KOH/g	<b>0.40</b>	0.390	0.989	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		---	2798	---	---
Particles >6µm		---	462	---	---
Particles >14µm		---	28	---	---
ISO 4406:1999 (c)		---	19/16/12	---	---
Silicon	ppm	<b>6</b>	5	15	---
Sodium	ppm	<b>0</b>	<1	12	---
Potassium	ppm	<b>1</b>	0	0	---

### Diagnosis

The oil change at the time of sampling has been noted. 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. Moderate concentration of visible dirt/debris 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>10</b>	4	9	---
Copper	ppm	<b>2</b>	2	139	---
Lead	ppm	<b>2</b>	2	<1	---
Tin	ppm	<b>&lt;1</b>	<1	<1	---
Aluminum	ppm	<b>1</b>	1	<1	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>1</b>	0	<1	---
Nickel	ppm	<b>0</b>	0	4	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>0</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>74</b>	51	3830	---
Magnesium	ppm	<b>9</b>	0	9	---
Zinc	ppm	<b>444</b>	441	1591	---
Phosphorus	ppm	<b>338</b>	340	1291	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	<1	132	---

**Depot:** VOLVO0090  
**Unique No:** 10496259  
**Signed:** Don Baldrige  
**Report Date:** 02 Jun 2023

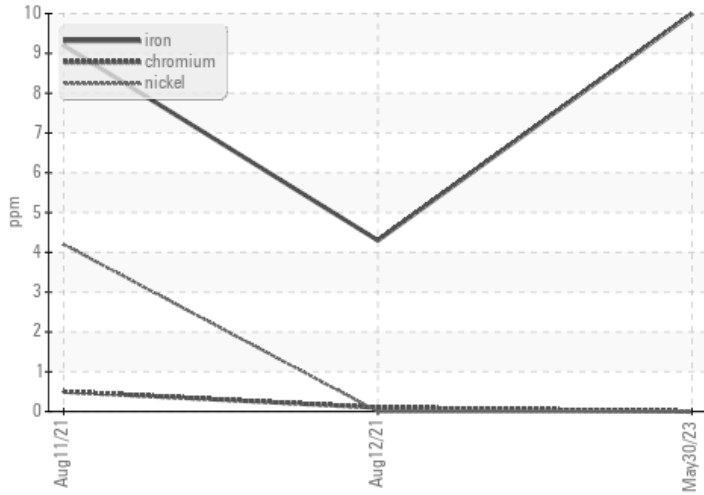


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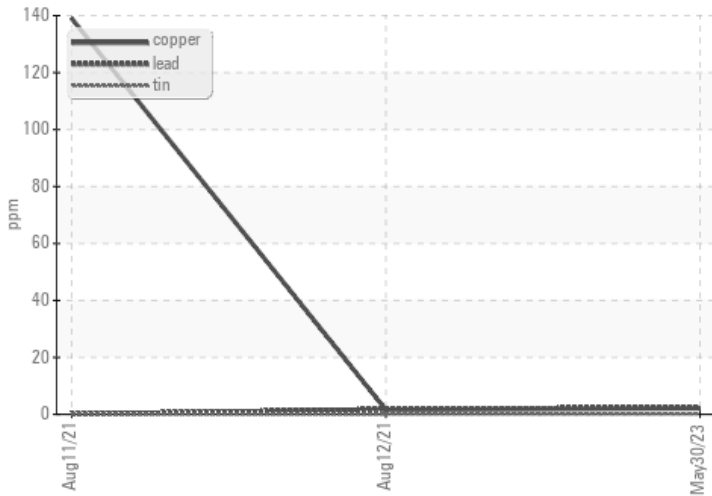


## GRAPHS

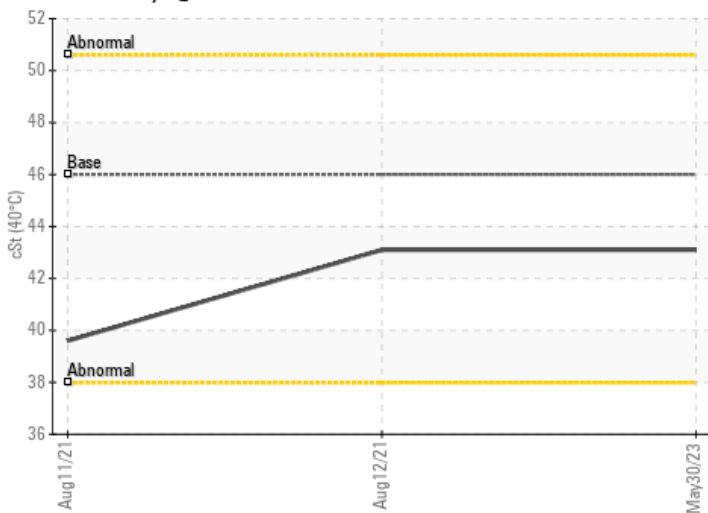
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

