



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 353142 - HYDRAULIC SYSTEM



**Sample No:** VCP416303  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416303</b>	VCP397481	---	---
Sample Date	<b>18 Aug 2023</b>	10 Jan 2023	---	---
Machine Hours	<b>2126</b>	0	---	---
Oil Hours	<b>0</b>	1000	---	---
Oil Changed	<b>Changed</b>	Not Changd	---	---
Sample Status	<b>ABNORMAL</b>	ATTENTION	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rtturner@ripatampa.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.9</b>	43.8	---	---
Acid Number (AN)	mg KOH/g	<b>0.26</b>	0.38	---	---



### CONTAMINATION

Particles >4µm		<b>20438</b>	6704	---	---
Particles >6µm		<b>5959</b>	2291	---	---
Particles >14µm		<b>453</b>	290	---	---
ISO 4406:1999 (c)		<b>22/20/16</b>	20/18/15	---	---
Silicon	ppm	<b>6</b>	6	---	---
Sodium	ppm	<b>1</b>	<1	---	---
Potassium	ppm	<b>0</b>	0	---	---

### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>56</b>	53	---	---
Magnesium	ppm	<b>2</b>	5	---	---
Zinc	ppm	<b>440</b>	436	---	---
Phosphorus	ppm	<b>225</b>	340	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

**Depot:** RIPTAM  
**Unique No:** 10655156  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

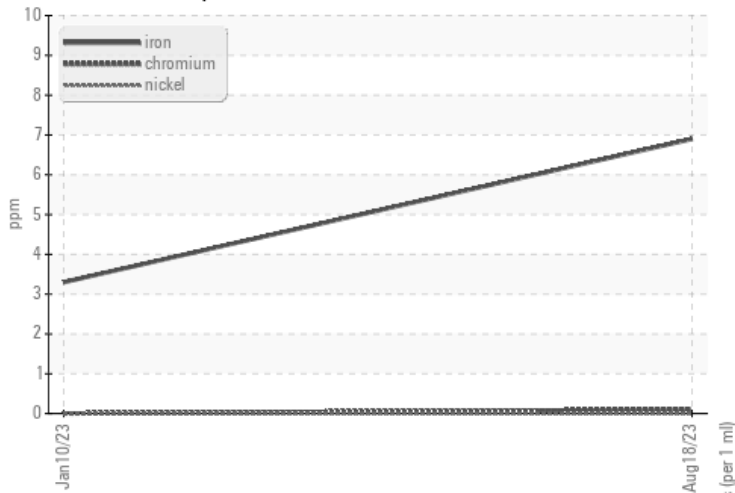


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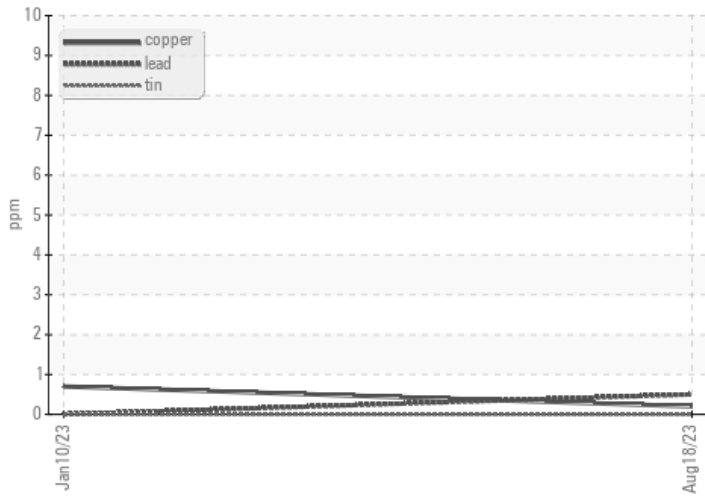


## GRAPHS

### Ferrous Alloys



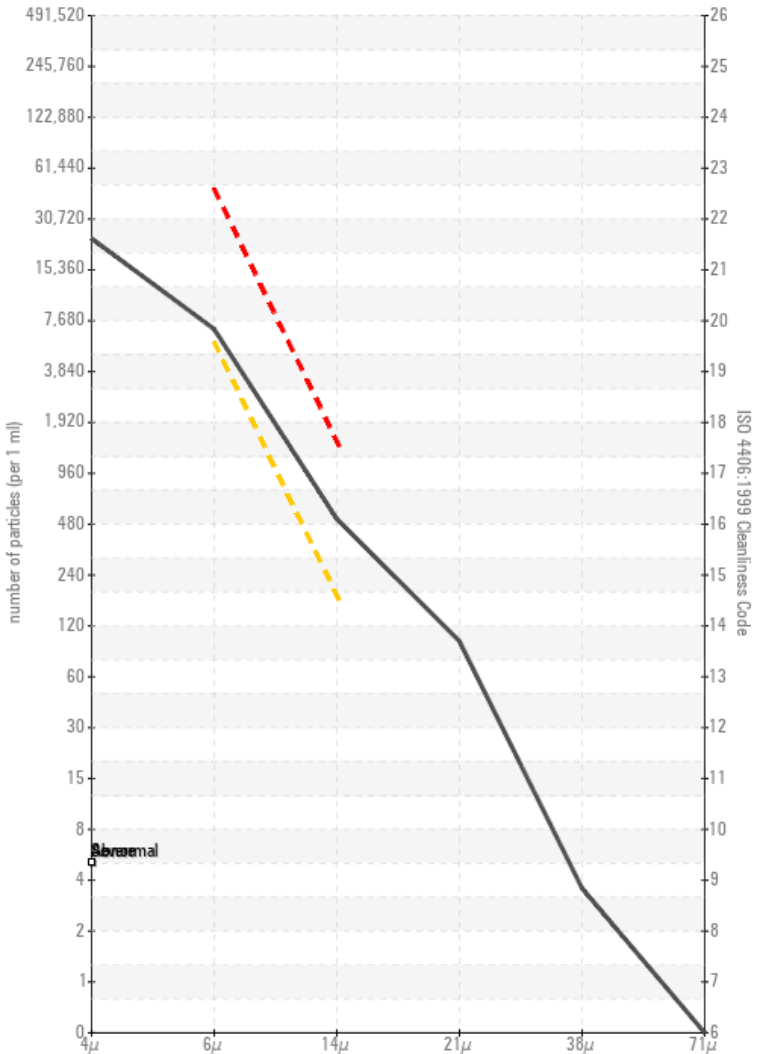
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

