



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353591 - HYDRAULIC SYSTEM



**Sample No:** VCP454806  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454806</b>	VCP439015	---	---
Sample Date	<b>02 May 2024</b>	27 Dec 2023	---	---
Machine Hours	<b>2216</b>	1377	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>NORMAL</b>	ATTENTION	---	---

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.3</b>	43.0	---	---
Acid Number (AN)	mg KOH/g	<b>0.46</b>	0.43	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Particles >4µm		<b>5573</b>	9522	---	---
Particles >6µm		<b>1314</b>	3123	---	---
Particles >14µm		<b>63</b>	313	---	---
ISO 4406:1999 (c)		<b>20/18/13</b>	20/19/15	---	---
Silicon	ppm	<b>6</b>	4	---	---
Sodium	ppm	<b>&lt;1</b>	0	---	---
Potassium	ppm	<b>&lt;1</b>	<1	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>4</b>	4	---	---
Copper	ppm	<b>2</b>	1	---	---
Lead	ppm	<b>&lt;1</b>	2	---	---
Tin	ppm	<b>0</b>	<1	---	---
Aluminum	ppm	<b>&lt;1</b>	2	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
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>&lt;1</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>174</b>	58	---	---
Magnesium	ppm	<b>&lt;1</b>	<1	---	---
Zinc	ppm	<b>471</b>	428	---	---
Phosphorus	ppm	<b>360</b>	344	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

**Depot:** VOLVO0090  
**Unique No:** 11015929  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024

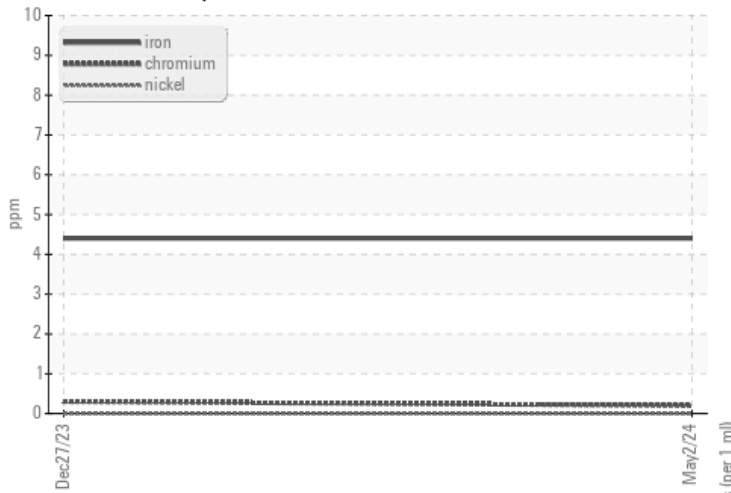


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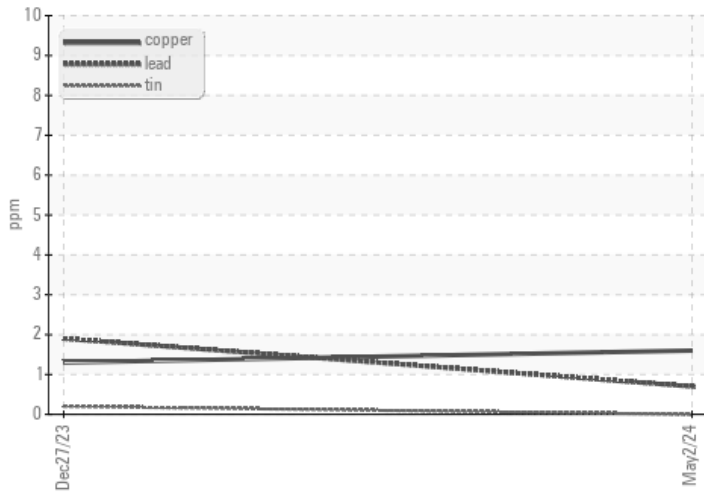


## GRAPHS

### Ferrous Alloys



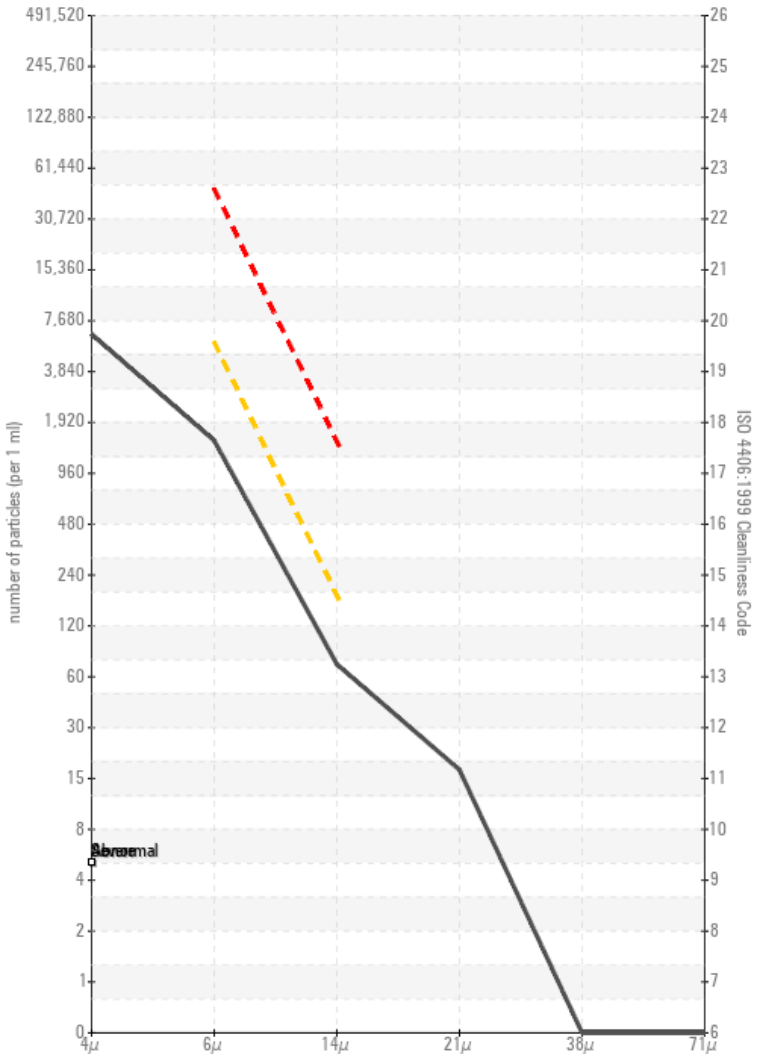
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

