



# CONSTRUCTION EQUIPMENT

## 42344 VOLVO A45G 353379 - HYDRAULIC SYSTEM



**Sample No:** VCP447644  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 42344



**215 - ASCENDUM MACHINERY INC - CAYCE**  
 2303 AIRPORT BLVD  
 CAYCE, SC  
 US 29033  
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 T: (803)923-2138  
 F: (803)791-9920



### SAMPLE INFORMATION

Sample Number	VCP447644	---	---	---
Sample Date	11 Jun 2024	---	---	---
Machine Hours	3761	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



### OIL CONDITION

Visc @ 40°C	cSt	█ 42.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.32	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 3285	---	---	---
Particles >6µm		█ 528	---	---	---
Particles >14µm		█ 25	---	---	---
ISO 4406:1999 (c)		19/16/12	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 1	---	---	---



### WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 71	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 461	---	---	---
Phosphorus	ppm	█ 345	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 0	---	---	---

### 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.

**Depot:** VOLVO0013  
**Unique No:** 11083566  
**Signed:** Wes Davis  
**Report Date:** 18 Jun 2024

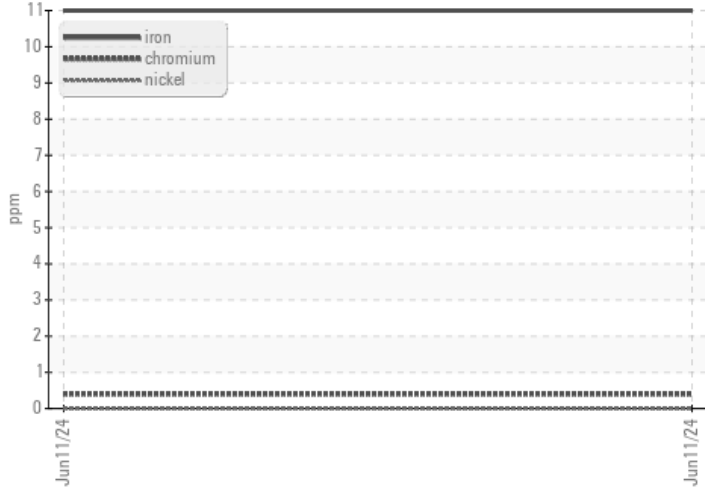


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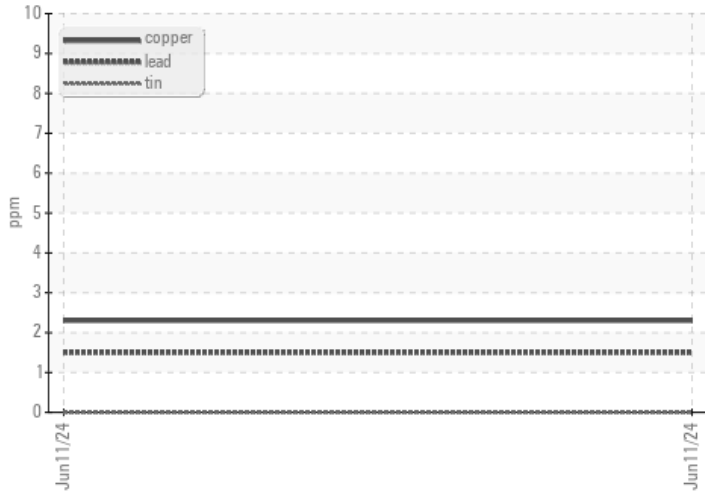


## GRAPHS

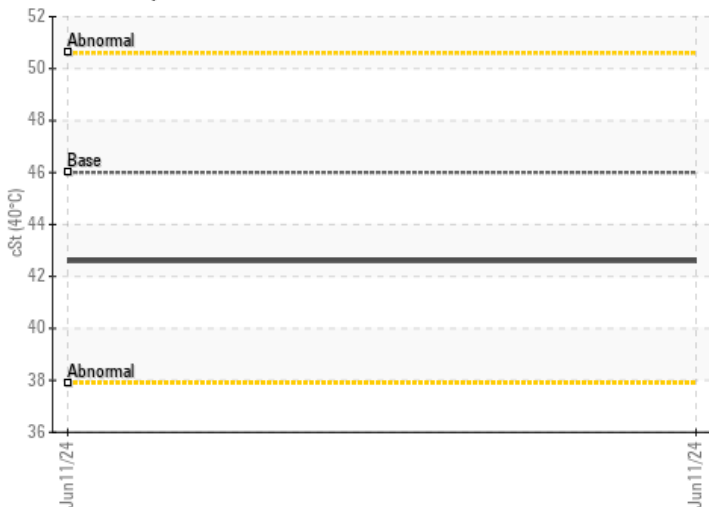
### Ferrous Alloys



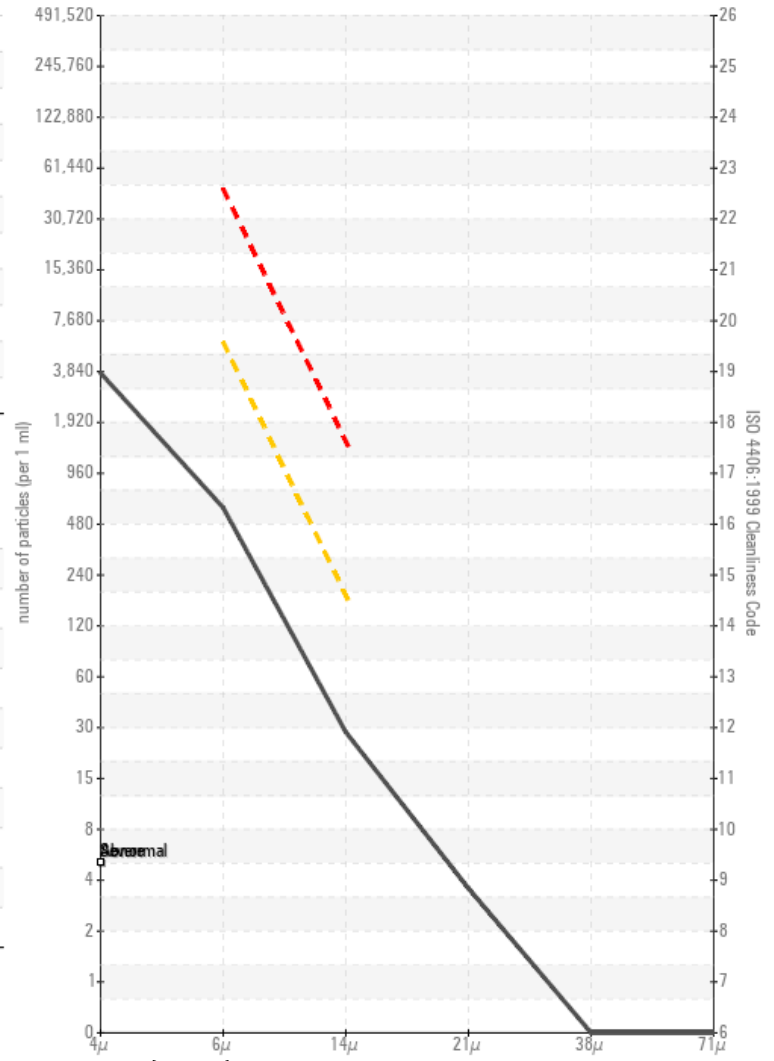
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

