



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352357 - HYDRAULIC SYSTEM



**Sample No:** VCP427077  
**Oil Type:** STARFIRE AW 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP427077	---	---	---
Sample Date	07 Aug 2023	---	---	---
Machine Hours	4076	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	█ 45.0	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.47	---	---	---



### CONTAMINATION

Particles >4µm		2484	---	---	---
Particles >6µm		█ 674	---	---	---
Particles >14µm		█ 53	---	---	---
ISO 4406:1999 (c)		18/17/13	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	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.



### WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	772	---	---	---
Magnesium	ppm	36	---	---	---
Zinc	ppm	639	---	---	---
Phosphorus	ppm	519	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	24	---	---	---

**Depot:** VOLVO8881  
**Unique No:** 10604099  
**Signed:** Wes Davis  
**Report Date:** 15 Aug 2023

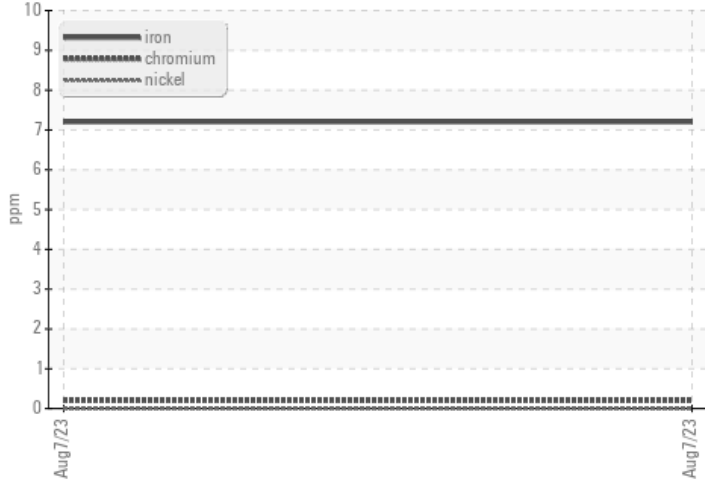


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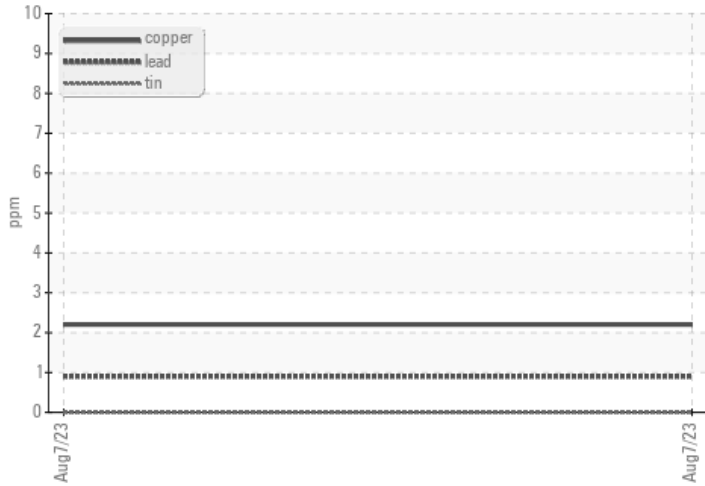


## GRAPHS

### Ferrous Alloys



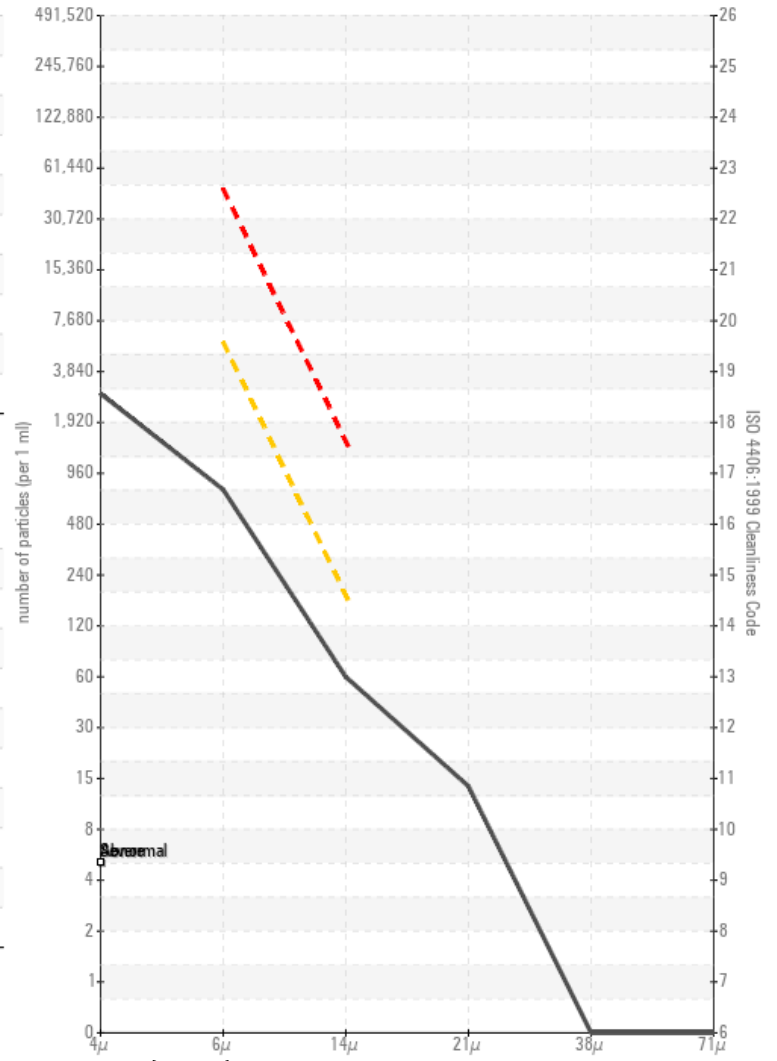
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

