



# CONSTRUCTION EQUIPMENT

## SPM716538 MCIRON VOLVO A45GFS 353671 - HYDRAULIC SYSTEM



**Sample No:** VCP452548  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SPM716538 MCIRON



### SAMPLE INFORMATION

Sample Number	VCP452548	VCP437032	---	---
Sample Date	17 May 2024	14 Feb 2024	---	---
Machine Hours	1501	1003	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	NORMAL	---	---

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F:



### OIL CONDITION

Visc @ 40°C	cSt	█ 43.1	█ 42.8	---	---
Acid Number (AN)	mg KOH/g	█ 0.49	█ 0.44	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		█ 4684	█ 5316	---	---
Particles >6µm		█ 869	█ 251	---	---
Particles >14µm		█ 41	█ 11	---	---
ISO 4406:1999 (c)		19/17/13	20/15/11	---	---
Silicon	ppm	█ 2	█ 5	---	---
Sodium	ppm	█ 1	█ 0	---	---
Potassium	ppm	█ 0	█ 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	█ 0	█ <1	---	---
Copper	ppm	█ 3	█ 4	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 4	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	█ 55	█ 47	---	---
Magnesium	ppm	█ 0	█ 1	---	---
Zinc	ppm	█ 415	█ 419	---	---
Phosphorus	ppm	█ 327	█ 290	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 0	---	---

**Depot:** VOLVO8885  
**Unique No:** 11059694  
**Signed:** Wes Davis  
**Report Date:** 04 Jun 2024

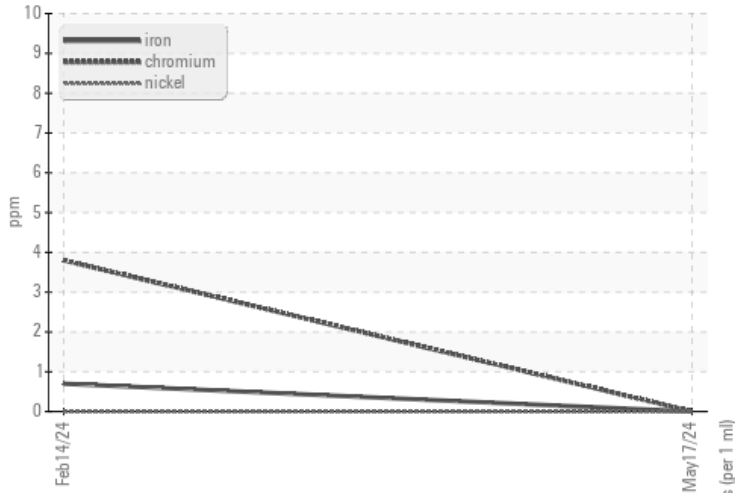


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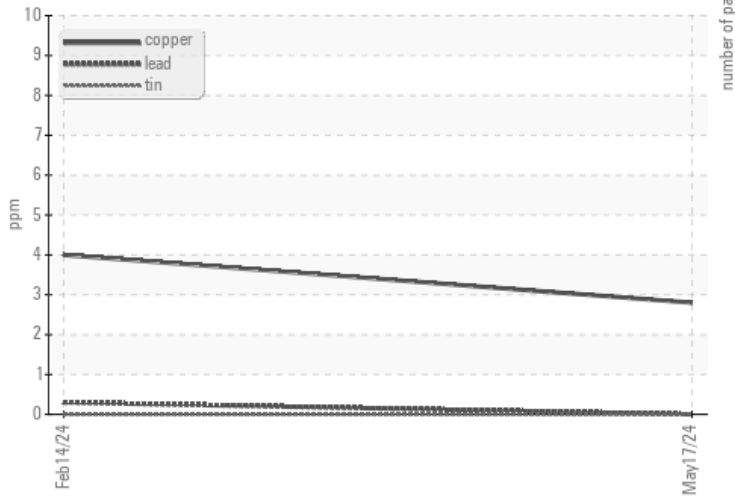


## VOLVO GRAPHS

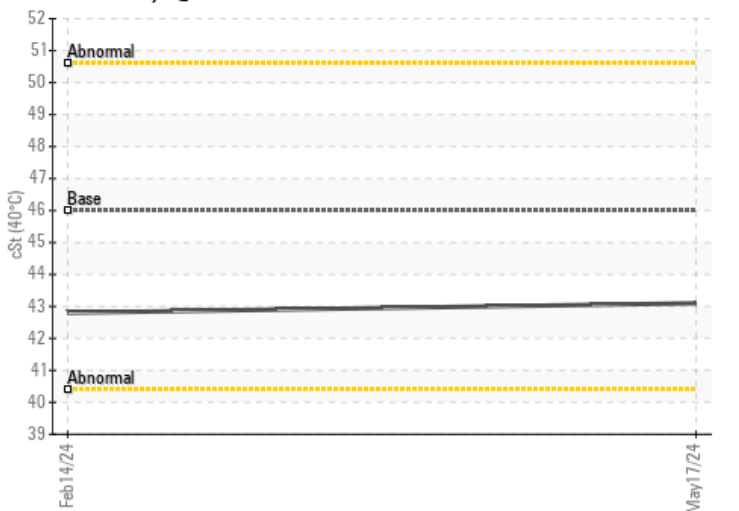
### Ferrous Alloys



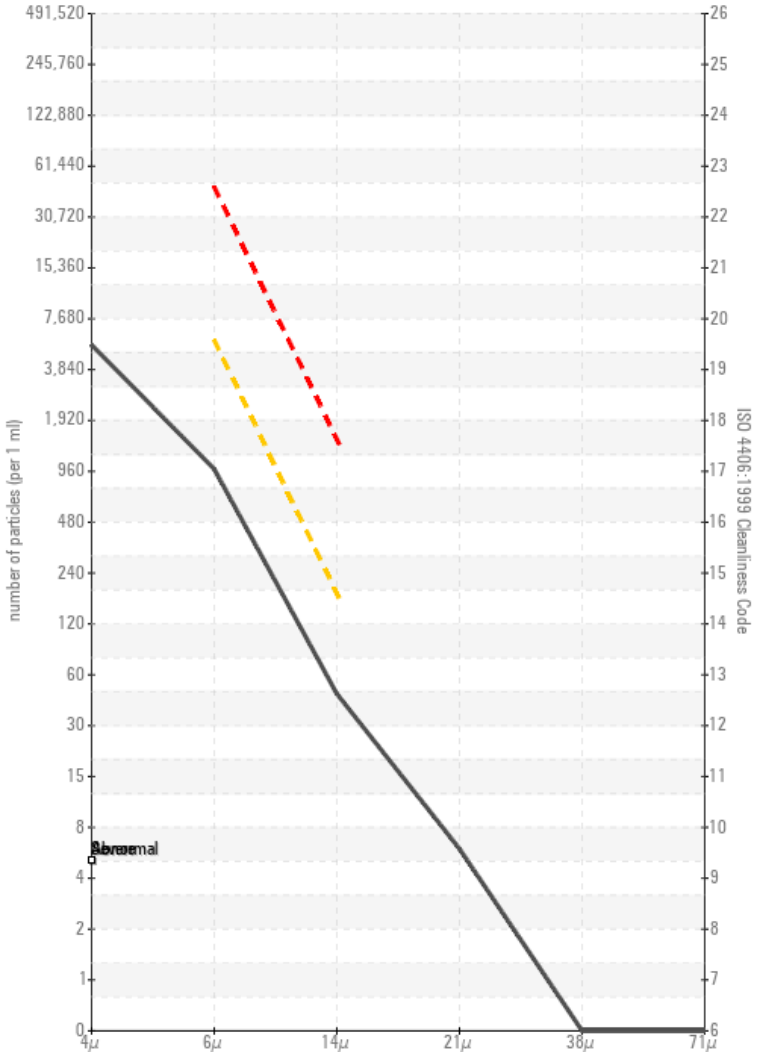
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

