



# CONSTRUCTION EQUIPMENT

W02007667 VOLVO EC380 311872 - HYDRAULIC SYSTEM



**Sample No:** VCP420834  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** W02007667



## SAMPLE INFORMATION

Sample Number	VCP420834	VCP321083	---	---
Sample Date	25 Oct 2023	29 Jul 2021	---	---
Machine Hours	4153	1953	---	---
Oil Hours	2000	1953	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 40.9	█ 43.0	---	---
Acid Number (AN)	mg KOH/g	█ 0.37	█ 0.515	---	---

## CONTAMINATION

Particles >4µm		█ 1537	█ 482	---	---
Particles >6µm		█ 34	█ 26	---	---
Particles >14µm		█ 4	█ 1	---	---
ISO 4406:1999 (c)		18/12/9	16/12/7	---	---
Silicon	ppm	█ 2	█ <1	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 2	█ <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	█ 6	█ 3	---	---
Copper	ppm	█ 27	█ 28	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 2	█ <1	---	---
Aluminum	ppm	█ 1	█ 0	---	---
Chromium	ppm	█ 8	█ 3	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

## ADDITIVES

Calcium	ppm	65	█ 74	---	---
Magnesium	ppm	█ 2	█ 0	---	---
Zinc	ppm	█ 384	█ 456	---	---
Phosphorus	ppm	█ 332	█ 381	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ <1	---	---

**Depot:** VOLVO0002  
**Unique No:** 10714238  
**Signed:** Wes Davis  
**Report Date:** 30 Oct 2023

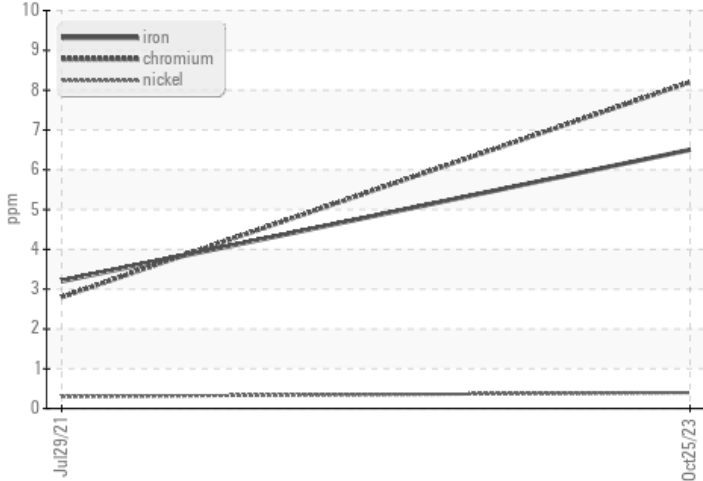


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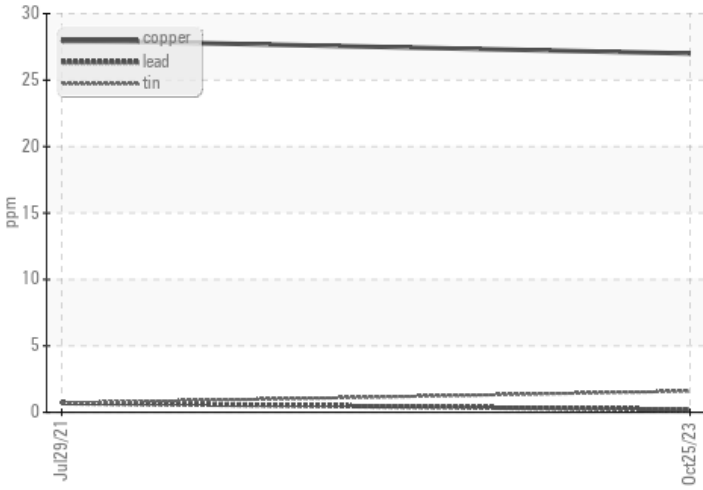


## GRAPHS

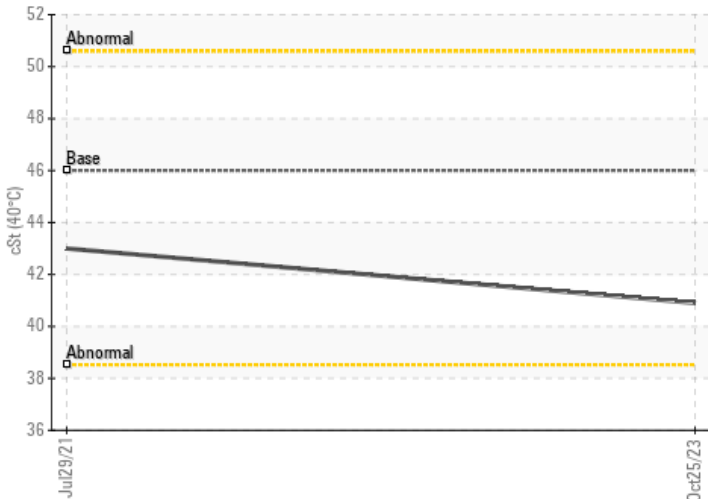
### Ferrous Alloys



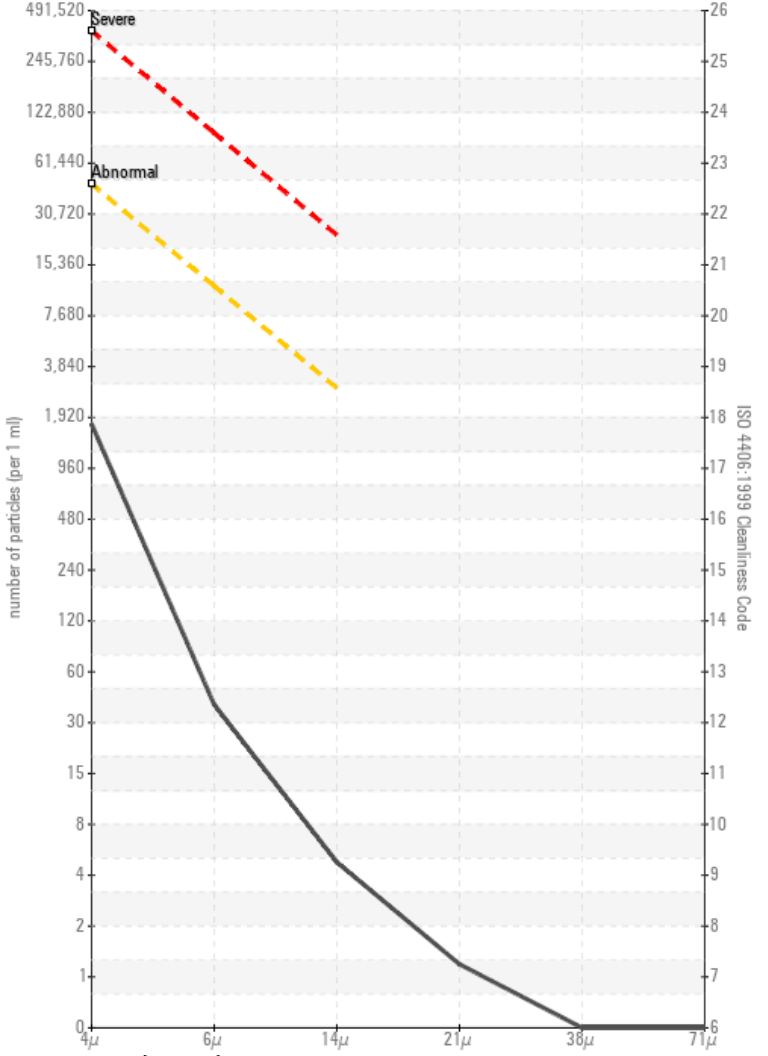
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

