



# CONSTRUCTION EQUIPMENT

## 4001 SYNERGY VOLVO ECR235 314207 - HYDRAULIC SYSTEM



**Sample No:** VCP455368  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** 4001 SYNERGY



### SAMPLE INFORMATION

Sample Number	VCP455368	VCP307041	---	---
Sample Date	09 Feb 2024	09 Mar 2021	---	---
Machine Hours	4205	1241	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ATTENTION	ATTENTION	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	▲ 55.4	■ 43.9	---	---
Acid Number (AN)	mg KOH/g	■ 0.37	■ 0.443	---	---



### CONTAMINATION

Water	%	▲ 0.222	NEG	---	---
Particles >4µm		■ 22272	▲ 55948	---	---
Particles >6µm		■ 1169	■ 8729	---	---
Particles >14µm		■ 40	■ 503	---	---
ISO 4406:1999 (c)		22/17/12	23/20/16	---	---
Silicon	ppm	■ <1	■ 0	---	---
Sodium	ppm	■ <1	■ 0	---	---
Potassium	ppm	■ 0	■ <1	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	■ 3	■ 2	---	---
Copper	ppm	■ 4	■ 32	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ <1	0	---	---
Aluminum	ppm	■ 0	■ 0	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 0	■ 0	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

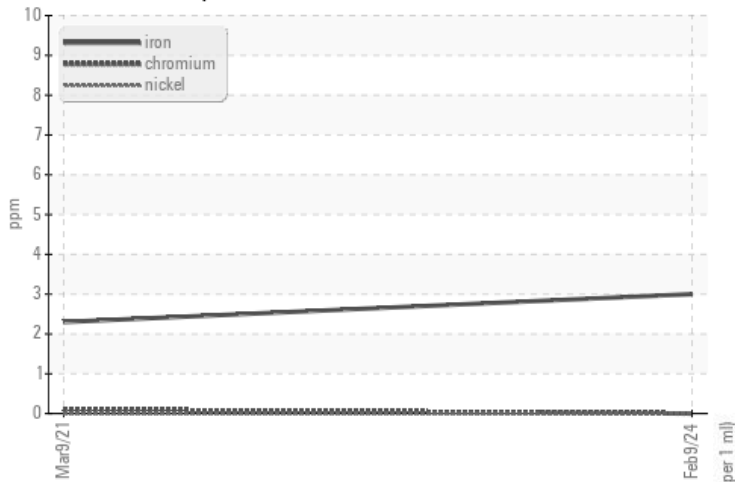
Calcium	ppm	■ 63	■ 72	---	---
Magnesium	ppm	■ 1	■ <1	---	---
Zinc	ppm	■ 405	■ 474	---	---
Phosphorus	ppm	■ 309	■ 368	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 0	■ <1	---	---

**Depot:** VOLVO0095  
**Unique No:** 10882933  
**Signed:** Don Baldrige  
**Report Date:** 16 Feb 2024

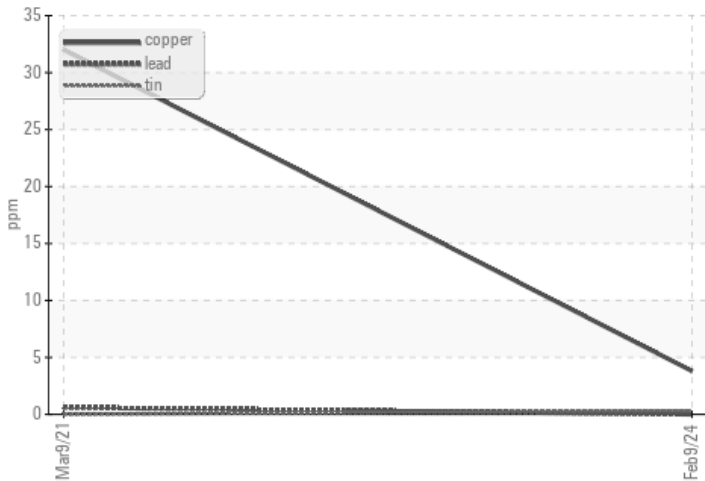


## GRAPHS

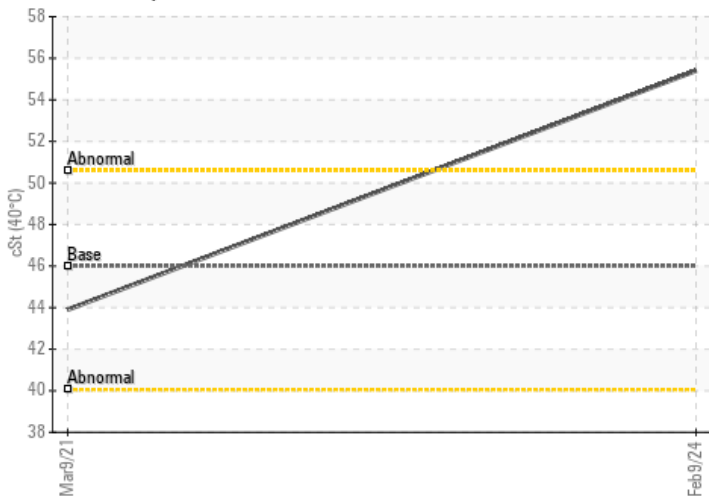
### Ferrous Alloys



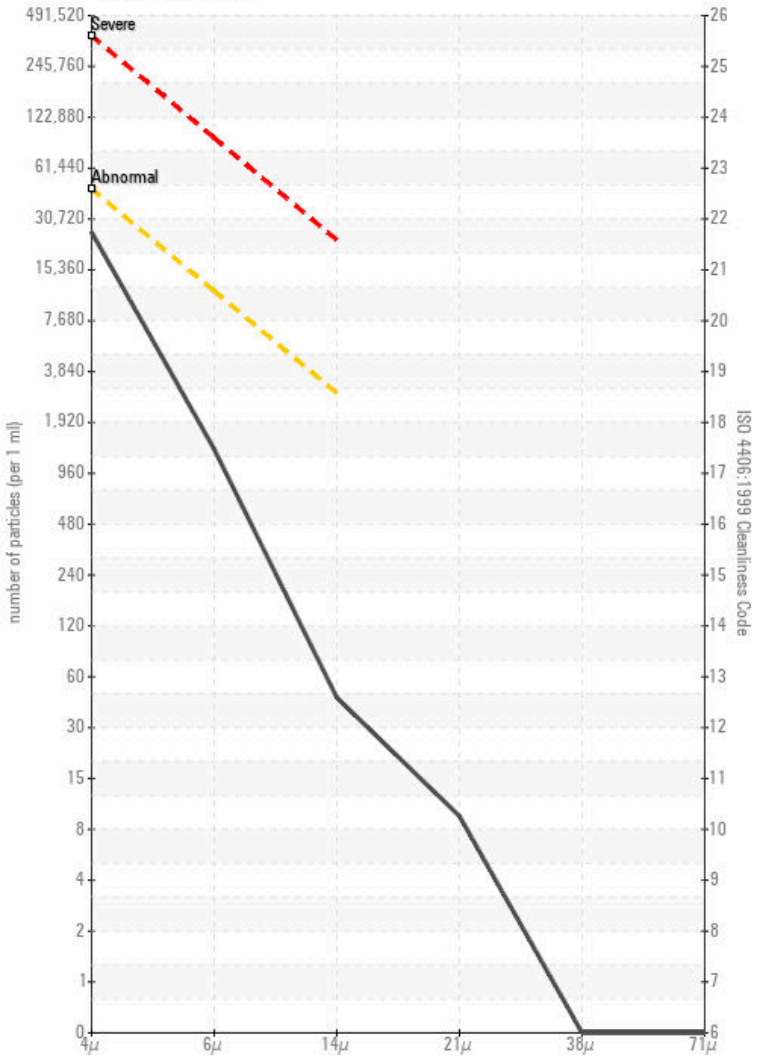
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

