



CONSTRUCTION EQUIPMENT

VOLVO EC210CL 111748 - HYDRAULIC SYSTEM



Sample No: VCP420622
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP420622	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	6838	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

IUOE JATP LOCAL 926

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 CEDARTOWN, GA
 US 30125
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 F:



OIL CONDITION

Visc @ 40°C	cSt	▲ 58.28	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.42	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 102413	---	---	---
Particles >6µm		■ 7876	---	---	---
Particles >14µm		■ 21	---	---	---
ISO 4406:1999 (c)		24/20/12	---	---	---
Silicon	ppm	■ 14	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	▲ 40	---	---	---
Copper	ppm	■ 21	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 725	---	---	---
Magnesium	ppm	■ 27	---	---	---
Zinc	ppm	■ 489	---	---	---
Phosphorus	ppm	■ 434	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ <1	---	---	---

Depot: IUOCE
Unique No: 10965415
Signed: Jonathan Hester
Report Date: 11 Apr 2024

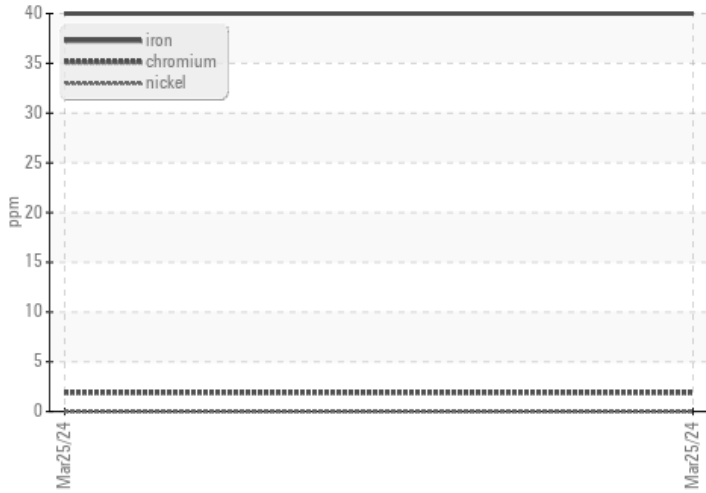


CONSTRUCTION EQUIPMENT

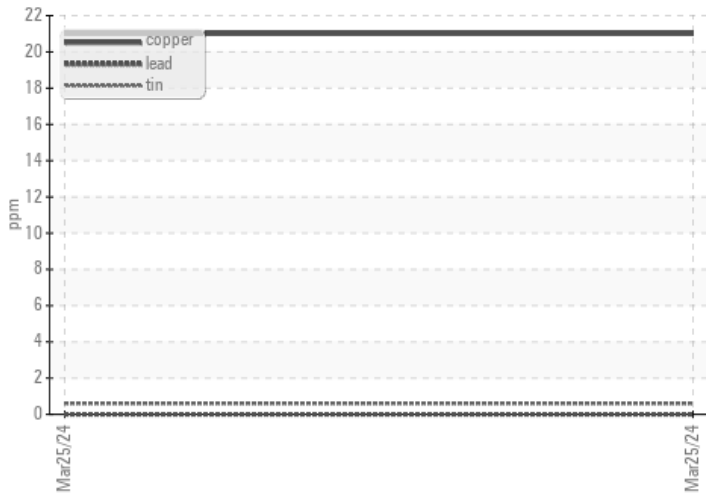


GRAPHS

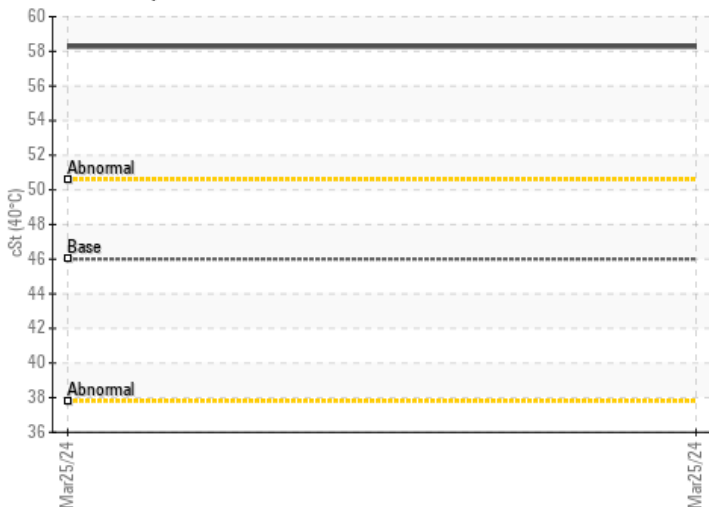
▲ Ferrous Alloys



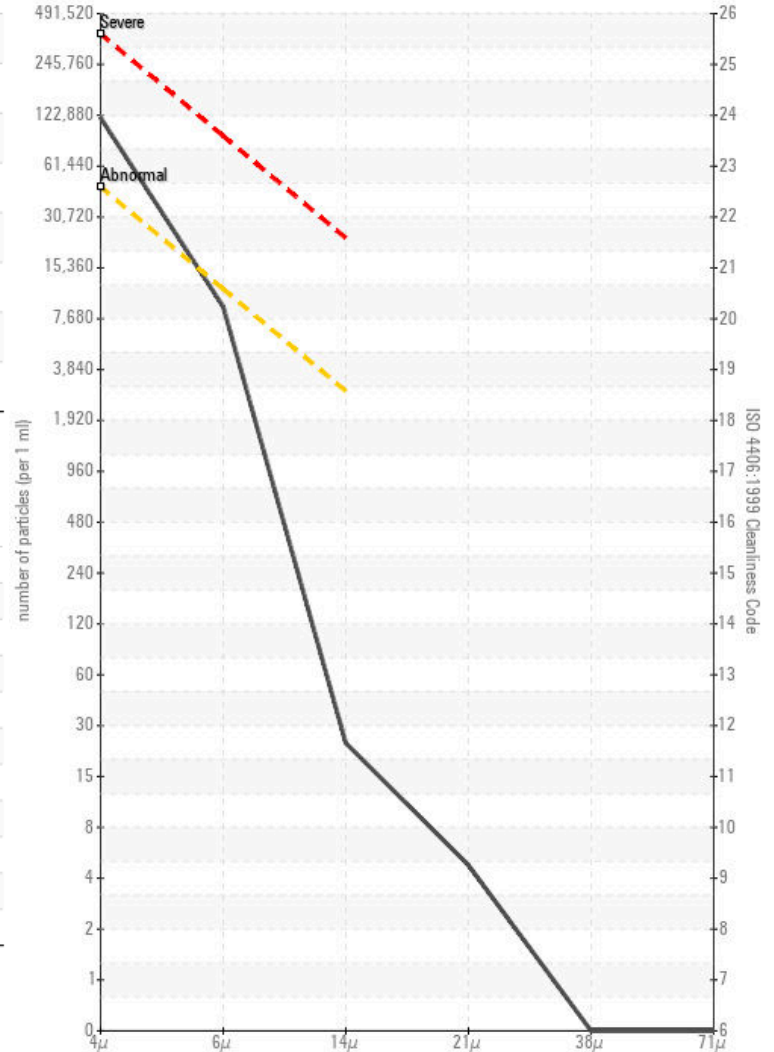
Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Particle Count



Acid Number

