



CONSTRUCTION EQUIPMENT

9320 PETERSON 5710D 40D-2952749 - HYDRAULIC SYSTEM



Sample No: VCP437699
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 9320



SAMPLE INFORMATION

Sample Number	VCP437699	VCP412626	---	---
Sample Date	10 Jan 2024	24 Aug 2023	---	---
Machine Hours	1361	841	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 40°C	cSt	50.8	44.5	---	---
Acid Number (AN)	mg KOH/g	1.56	0.50	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 176208	▲ 5549	---	---
Particles >6µm		▲ 62620	■ 249	---	---
Particles >14µm		■ 94	■ 14	---	---
ISO 4406:1999 (c)		25/23/14	20/15/11	---	---
Silicon	ppm	■ 7	■ 1	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 0	■ 2	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	▲ 37	■ 17	---	---
Copper	ppm	■ <1	■ 1	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ <1	■ 0	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 4	■ <1	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ <1	■ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	▲ 3789	■ 37	---	---
Magnesium	ppm	■ 22	■ 7	---	---
Zinc	ppm	▲ 1601	■ 412	---	---
Phosphorus	ppm	▲ 1289	■ 336	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	▲ 111	■ 0	---	---

Depot: VOLVO0096
Unique No: 10832361
Signed: Jonathan Hester
Report Date: 17 Jan 2024

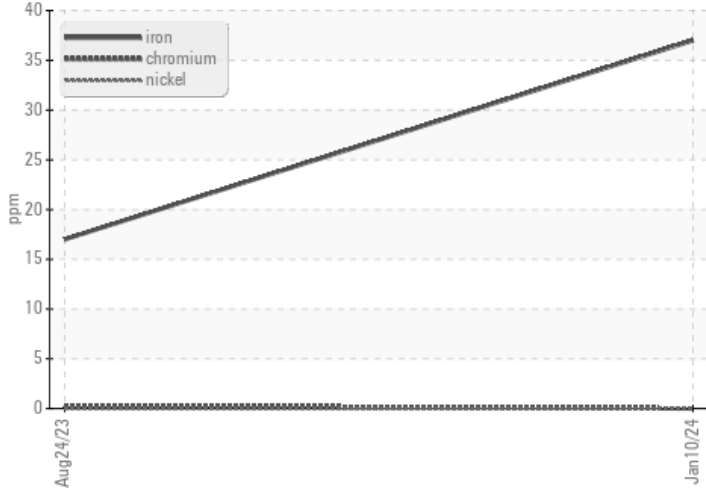


CONSTRUCTION EQUIPMENT

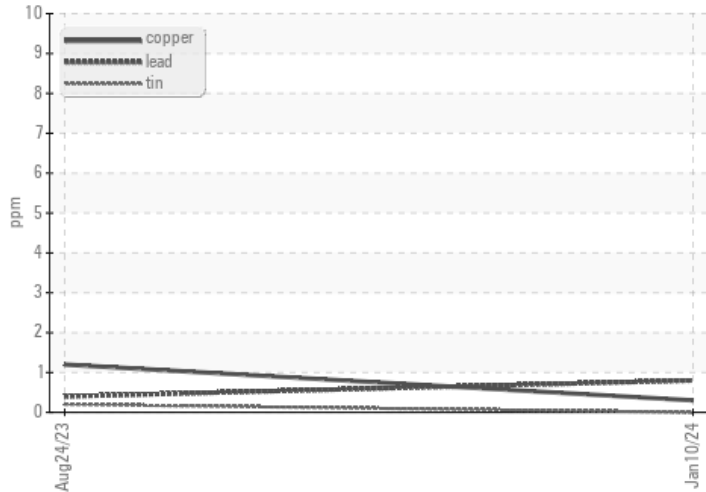


VOLVO GRAPHS

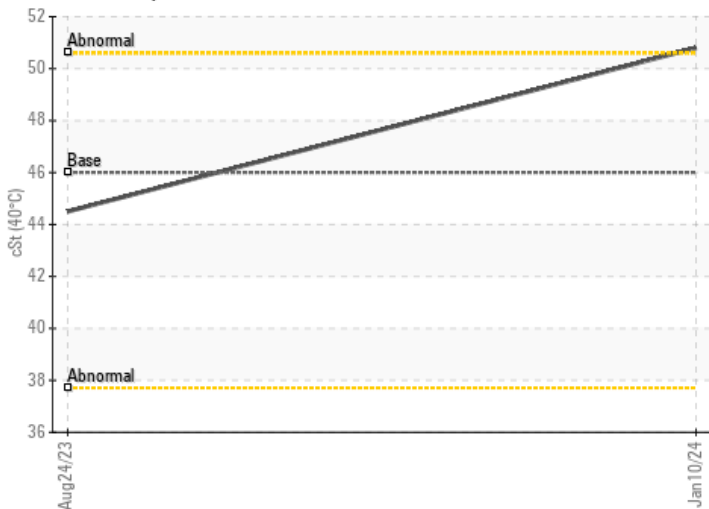
▲ Ferrous Alloys



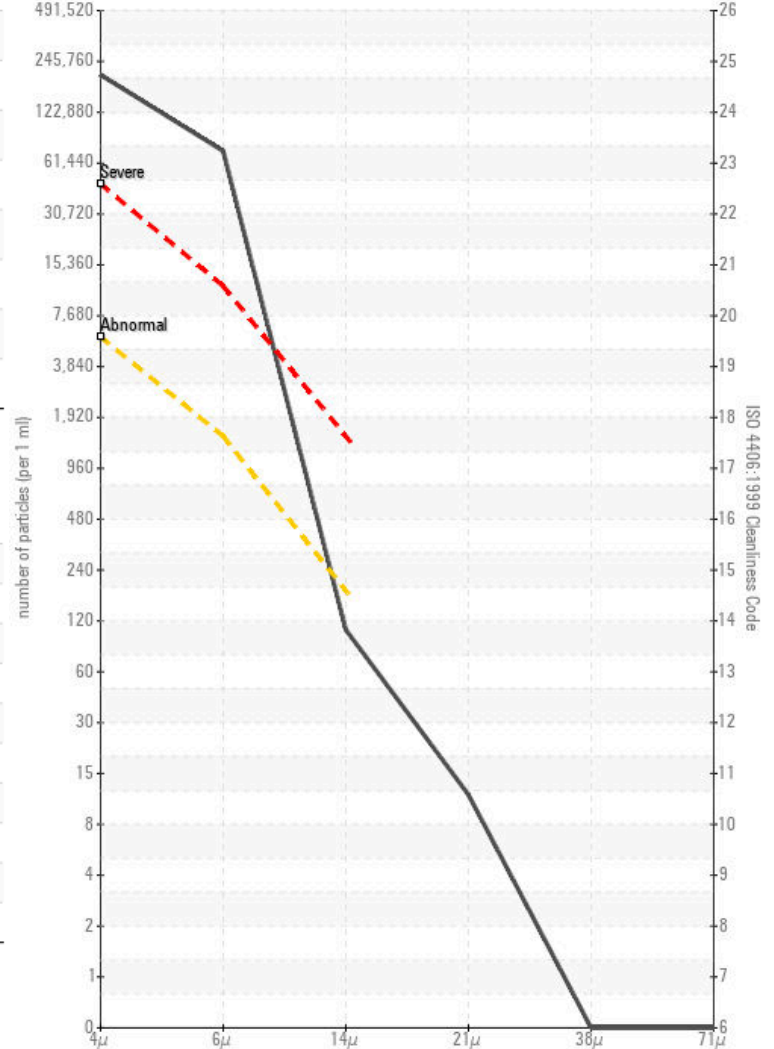
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

