



CONSTRUCTION EQUIPMENT

12010 VOLVO ECR145D 210173 - HYDRAULIC SYSTEM



Sample No: VCP446412
Oil Type: VOLVO SUPER 68
Job No: 12010



SAMPLE INFORMATION

Sample Number	VCP446412	---	---	---
Sample Date	09 Apr 2024	---	---	---
Machine Hours	5873	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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 F: (610)594-0829



OIL CONDITION

Visc @ 40°C	cSt	● 45.4	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.50	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 80679	---	---	---
Particles >6µm		● 12884	---	---	---
Particles >14µm		■ 1132	---	---	---
ISO 4406:1999 (c)		24/21/17	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The chromium 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. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 45	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	▲ 25	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	112	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	533	---	---	---
Phosphorus	ppm	440	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO8879
Unique No: 10978672
Signed: Doug Bogart
Report Date: 05 May 2024

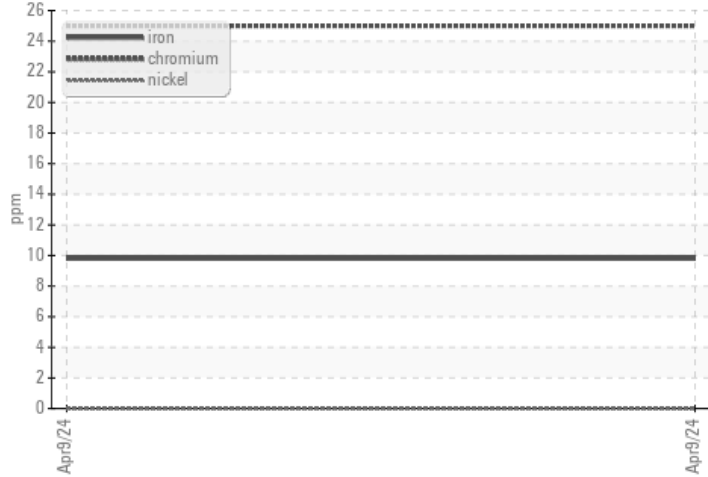


CONSTRUCTION EQUIPMENT

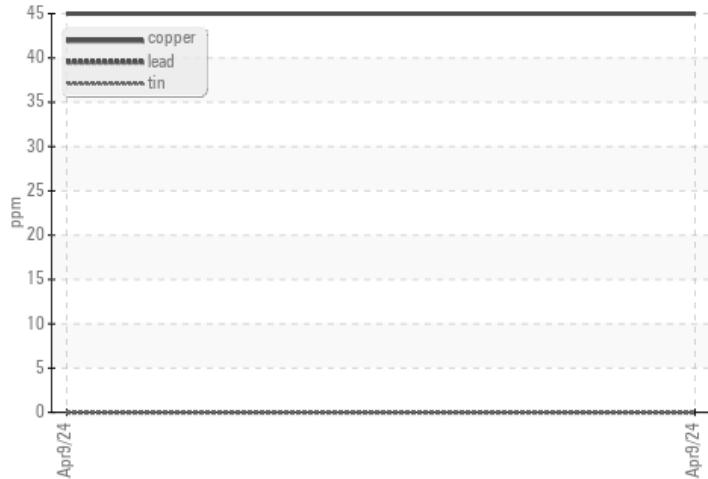


GRAPHS

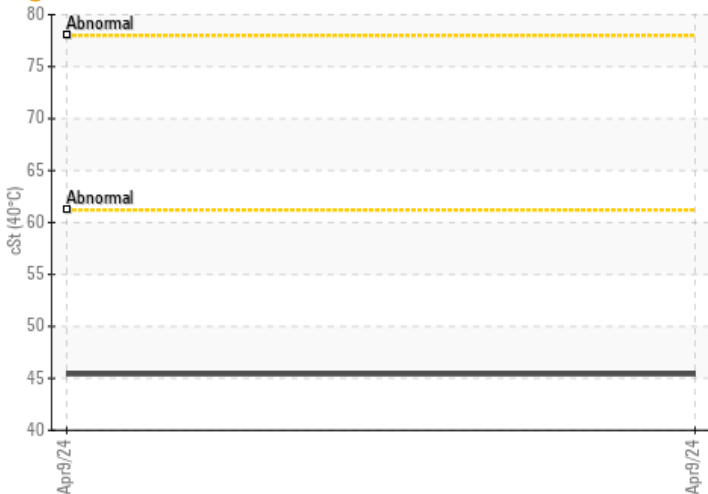
▲ Ferrous Alloys



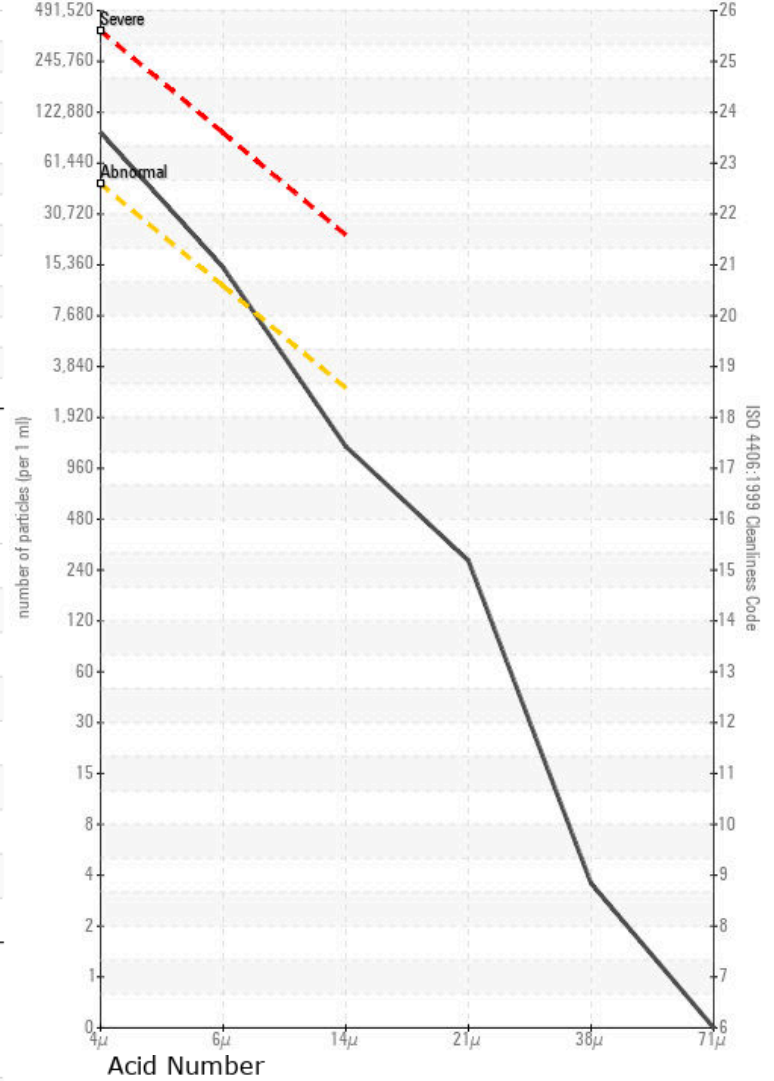
Non-ferrous Metals



● Viscosity @ 40°C



▲ Particle Count



Acid Number

