



CONSTRUCTION EQUIPMENT

D37798 APPLE VALLEY VOLVO EC210BLC 14517 - HYDRAULIC SYSTEM



Sample No: VCE049444
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: D37798 APPLE VALLEY



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SAMPLE INFORMATION

Sample Number	VCE049444	VCP360810	---	---
Sample Date	16 Aug 2023	16 Dec 2022	---	---
Machine Hours	3734	3731	---	---
Oil Hours	15	3731	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	43.9	43.4	---	---
Acid Number (AN)	mg KOH/g	0.40	0.46	---	---

CONTAMINATION

Particles >4µm		84894	---	---	---
Particles >6µm		4591	---	---	---
Particles >14µm		17	---	---	---
ISO 4406:1999 (c)		24/19/11	---	---	---
Silicon	ppm	12	16	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	1	1	---	---

WEAR METALS

Iron	ppm	29	36	---	---
Copper	ppm	17	28	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	2	5	---	---
Molybdenum	ppm	3	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	100	145	---	---
Magnesium	ppm	4	3	---	---
Zinc	ppm	479	390	---	---
Phosphorus	ppm	379	389	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	0	0	---	---

Diagnosis

No corrective action is recommended at this time. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0072
Unique No: 10608064
Signed: Don Baldrige
Report Date: 21 Aug 2023

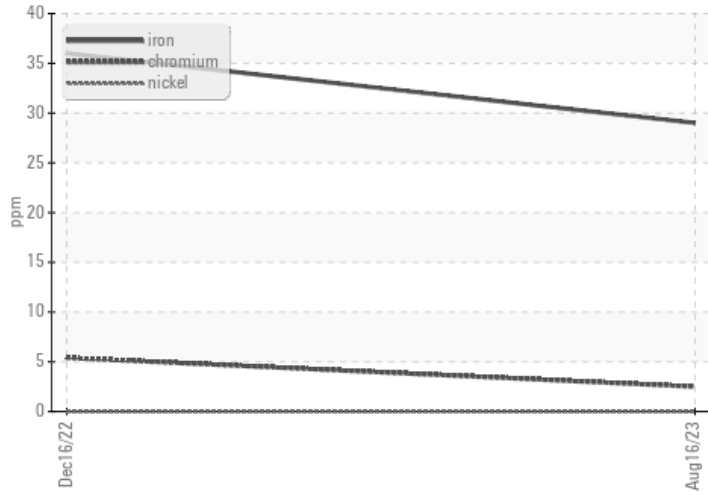


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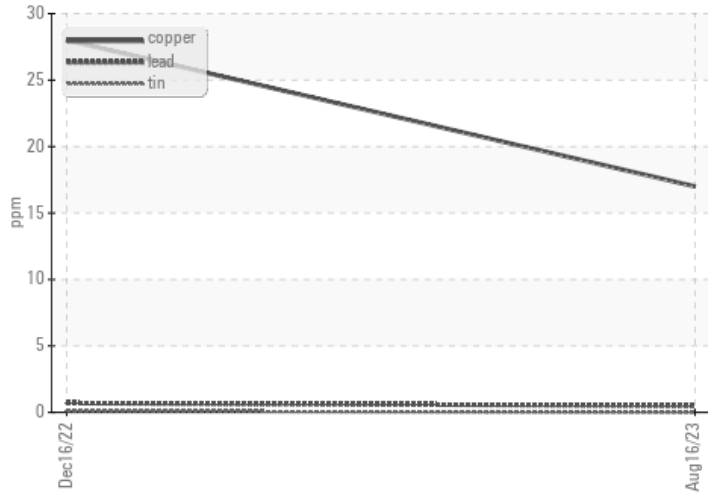


GRAPHS

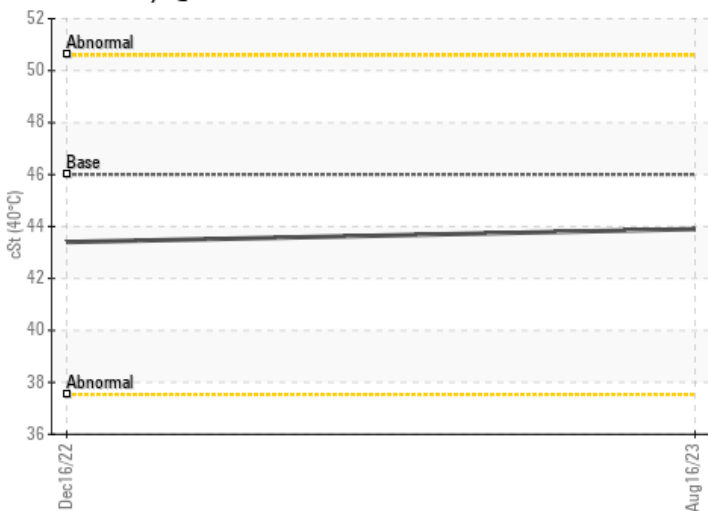
▲ Ferrous Alloys



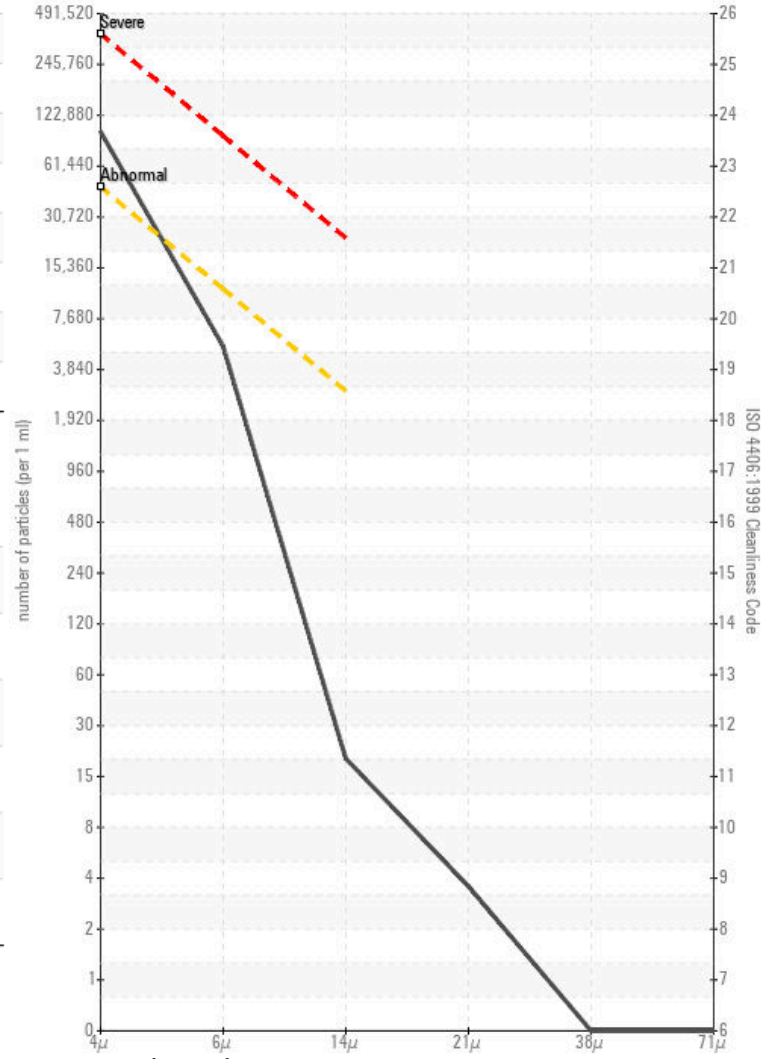
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

