



CONSTRUCTION EQUIPMENT

VOLVO EC210CL 110620 - HYDRAULIC SYSTEM



Sample No: VCP378545

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP378545	VCP373661	VCP359506	VCP342156
Sample Date	05 Apr 2023	23 Jan 2023	21 Nov 2022	11 Oct 2022
Machine Hours	12778	12580	12357	12098
Oil Hours	1771	1573	1350	1091
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION

SCHILDBERG CONSTRUCTION COMPANY

PO BOX 358
GREENFIELD, IA
US 50849

Contact: SCOTT ARMSTRONG
sarmstrong@schildberg.com
T: (641)743-8237
F: (641)743-2486



OIL CONDITION

Visc @ 40°C	cSt	39.6	39.6	39.5	39.8
Acid Number (AN)	mg KOH/g	1.43	1.22	1.30	1.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 241458	▲ 156679	▲ 86459	● 69589
Particles >6µm		▲ 29227	▲ 68591	▲ 28370	● 16002
Particles >14µm		■ 222	■ 1637	■ 1137	■ 435
ISO 4406:1999 (c)		25/22/15	24/23/18	24/22/17	23/21/16
Silicon	ppm	■ 7	■ 9	■ 10	■ 8
Sodium	ppm	■ <1	■ 3	■ 4	■ 3
Potassium	ppm	■ 2	■ 0	■ 0	■ 0

Diagnosis

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All 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.



WEAR METALS

Iron	ppm	■ 5	■ 5	■ 4	■ 4
Copper	ppm	■ 21	■ 10	■ 6	■ 4
Lead	ppm	■ <1	■ 0	■ 2	■ <1
Tin	ppm	■ 0	■ 0	■ 4	<1
Aluminum	ppm	■ 10	■ 7	■ 5	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ 2
Molybdenum	ppm	■ 2	■ 2	■ 4	■ 2
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	■ 2847	■ 2826	■ 3365	■ 3019
Magnesium	ppm	■ 19	■ 20	■ 25	■ 21
Zinc	ppm	■ 1121	■ 1067	■ 1309	■ 1243
Phosphorus	ppm	■ 919	■ 876	■ 1126	■ 975
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 2	■ 0	■ 4	■ 0

Depot: SCHGRE
Unique No: 10418041
Signed: Doug Bogart
Report Date: 12 Apr 2023

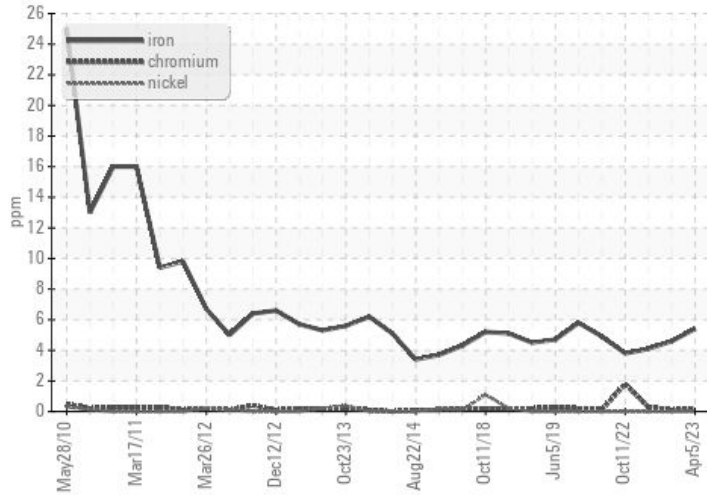


CONSTRUCTION EQUIPMENT

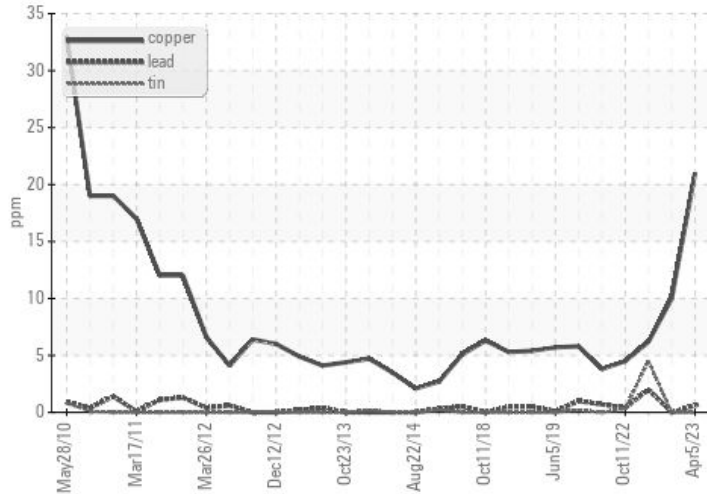


GRAPHS

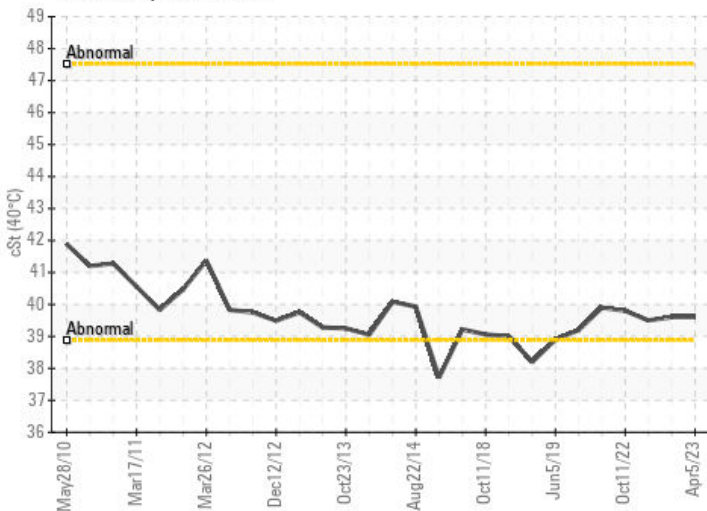
Ferrous Alloys



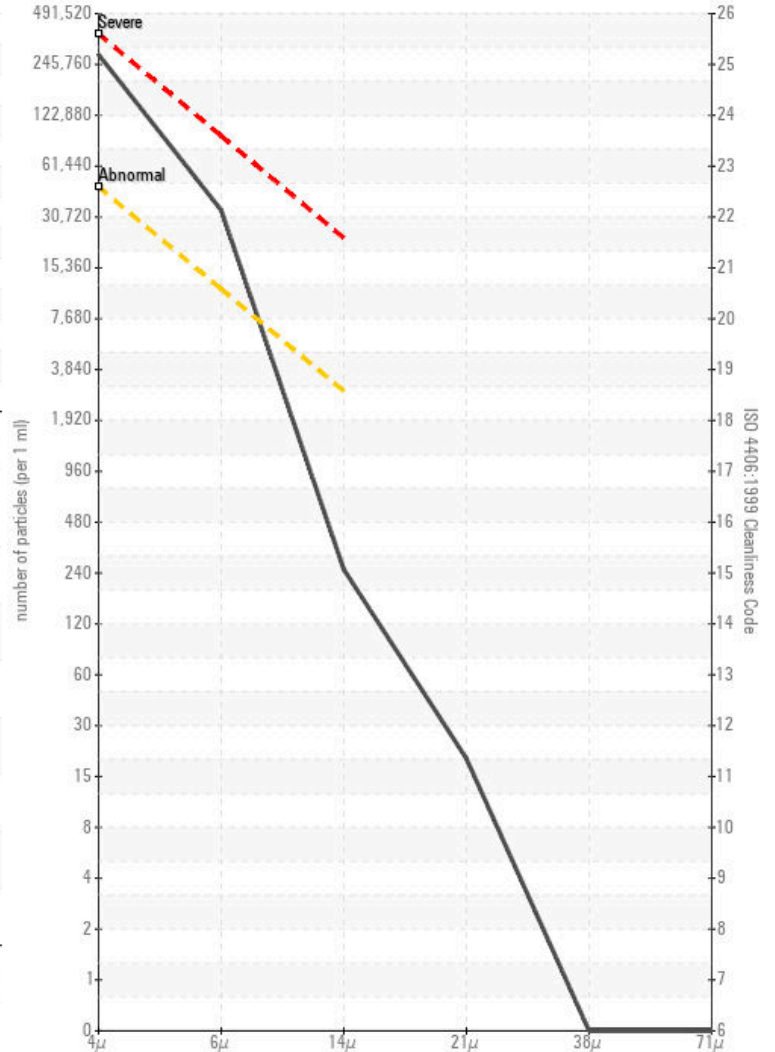
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

