



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 3 10 129 - HYDRAULIC SYSTEM



Sample No: VCP182317

Oil Type: SAE 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP182317	VCP294737	VCP151042	VCP150351
Sample Date	25 Apr 2024	10 Feb 2023	10 Feb 2022	16 Apr 2019
Machine Hours	8007	7279	6078	4033
Oil Hours	52	1762	561	1862
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	48.3	45.3	44.3	43.9
Acid Number (AN)	mg KOH/g	1.44	1.26	1.11	0.974



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2326	7789	---	10759
Particles >6µm		197	2128	---	2797
Particles >14µm		24	86	---	157
ISO 4406:1999 (c)		18/15/12	20/18/14	---	21/19/14
Silicon	ppm	5	6	5	4
Sodium	ppm	4	0	<1	<1
Potassium	ppm	11	3	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	5	7	4	6
Copper	ppm	11	19	24	20
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	2	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	21	13	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2801	2430	1745	1013
Magnesium	ppm	73	60	16	8
Zinc	ppm	1147	1186	1018	755
Phosphorus	ppm	1100	1007	818	611
Barium	ppm	0	<1	0	<1
Boron	ppm	40	24	0	1

Depot: GLOPLE

Unique No: 11009032

Signed: Don Baldrige

Report Date: 07 May 2024

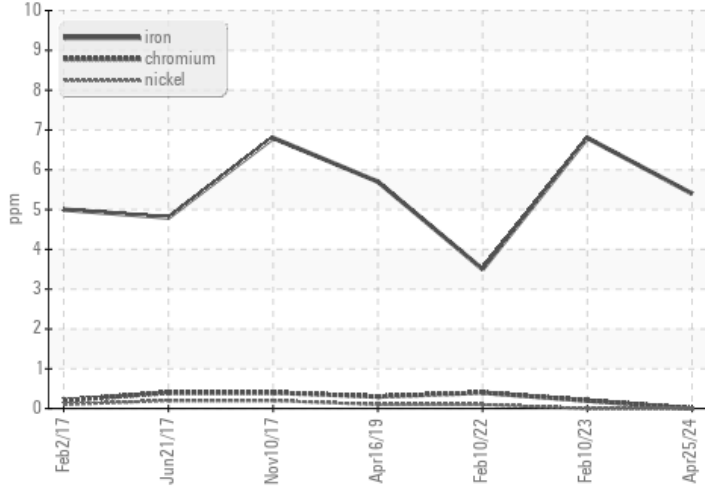


CONSTRUCTION EQUIPMENT

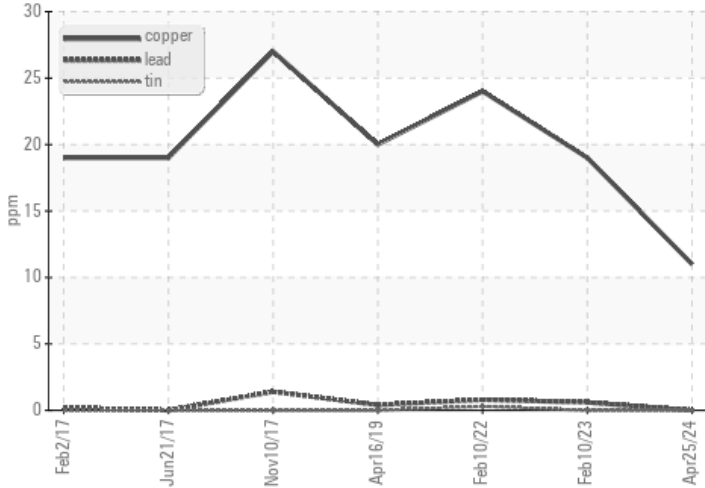


VOLVO GRAPHS

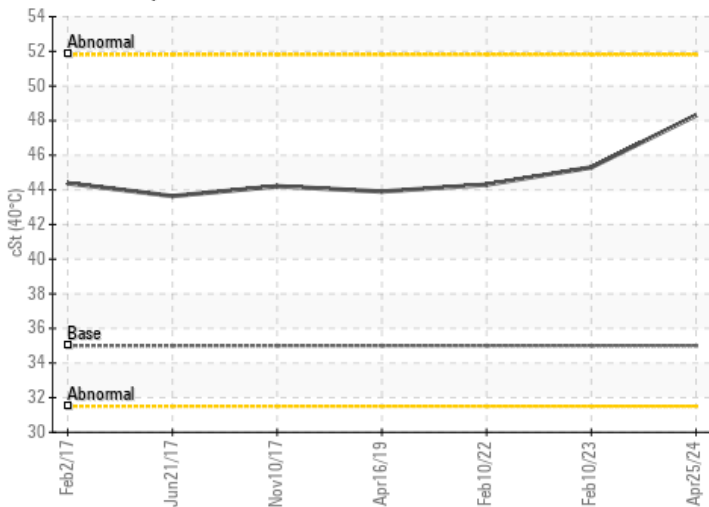
Ferrous Alloys



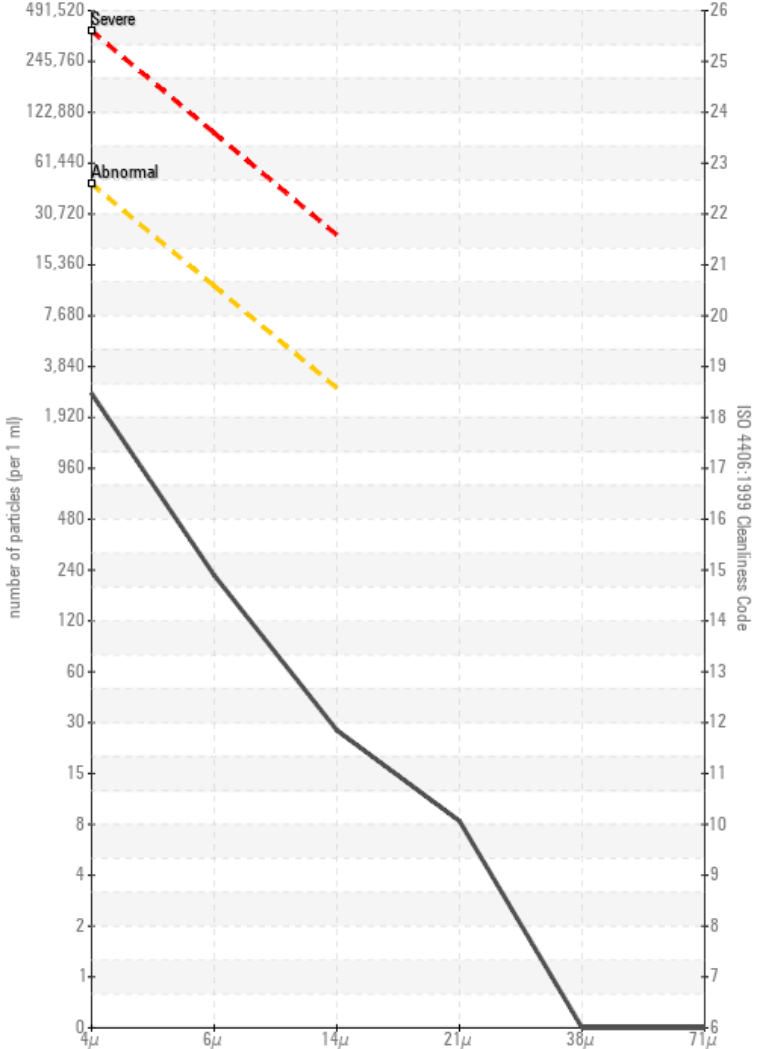
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

