



CONSTRUCTION EQUIPMENT

X48144 VOLVO EC380EL 311913 - HYDRAULIC SYSTEM



Sample No: VCP450955
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X48144



SAMPLE INFORMATION

Sample Number	VCP450955	VCP416087	VCP434974	VCP339089
Sample Date	08 May 2024	29 Mar 2024	21 Mar 2024	23 Jun 2022
Machine Hours	6192	5902	6188	4252
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	N/A	N/A
Sample Status	ATTENTION	ATTENTION	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.3	42.8	43.0	43.0
Acid Number (AN)	mg KOH/g	0.45	0.44	0.35	0.24



CONTAMINATION

Water	%	NEG	NEG	▲ 0.230	NEG
Particles >4µm		56102	61170	---	20600
Particles >6µm		3265	3604	---	412
Particles >14µm		126	115	---	20
ISO 4406:1999 (c)		23/19/14	23/19/14	---	22/16/11
Silicon	ppm	1	3	5	1
Sodium	ppm	<1	0	0	0
Potassium	ppm	0	2	2	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light 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	<1	6	▲ 23	2
Copper	ppm	2	6	22	17
Lead	ppm	0	1	1	0
Tin	ppm	<1	1	1	0
Aluminum	ppm	0	2	3	<1
Chromium	ppm	<1	2	5	<1
Molybdenum	ppm	0	2	3	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	2	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	78	103	70	85
Magnesium	ppm	2	3	7	0
Zinc	ppm	446	444	392	159
Phosphorus	ppm	365	404	371	385
Barium	ppm	1	0	1	0
Boron	ppm	0	0	0	1

Depot: VOLV00129
Unique No: 11029964
Signed: Wes Davis
Report Date: 15 May 2024

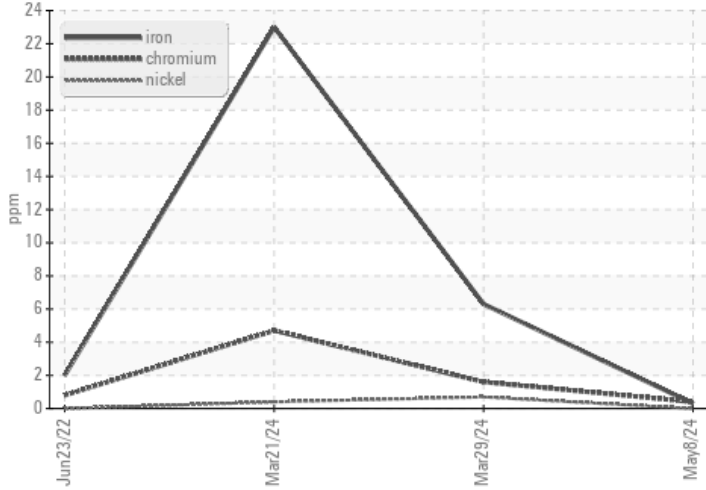


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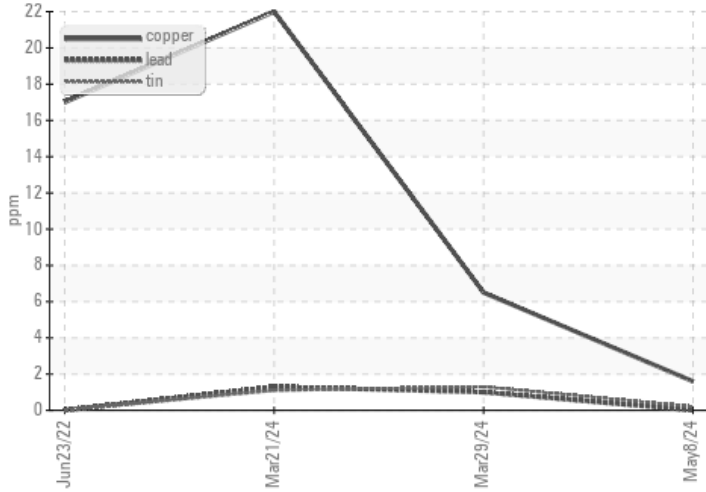


GRAPHS

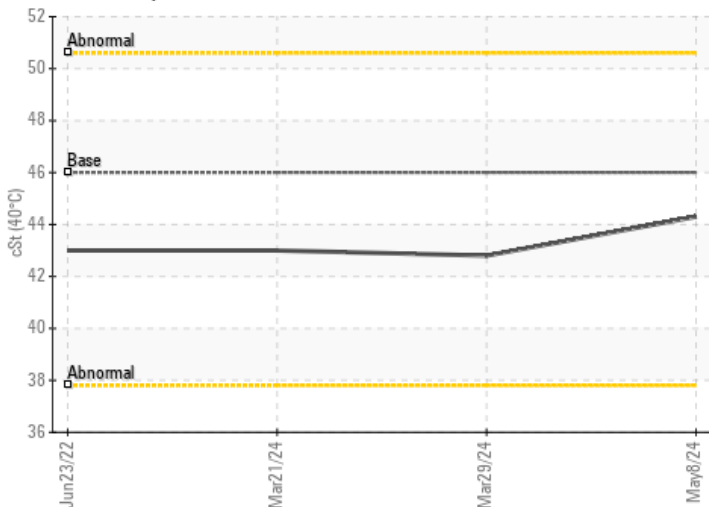
Ferrous Alloys



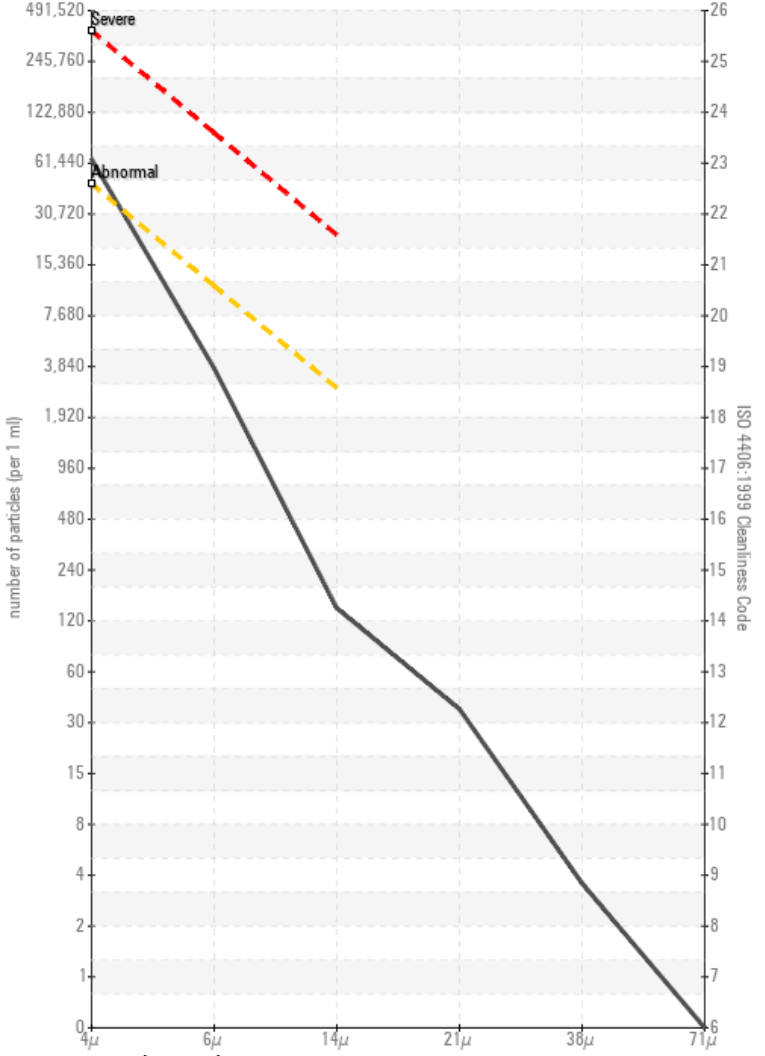
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

