



CONSTRUCTION EQUIPMENT

X48306 VOLVO EC380EL 311913 - HYDRAULIC SYSTEM



Sample No: VCP450944
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X48306



SAMPLE INFORMATION

Sample Number	VCP450944	VCP450955	VCP416087	VCP434974
Sample Date	21 Jun 2024	08 May 2024	29 Mar 2024	21 Mar 2024
Machine Hours	5993	6192	5902	6188
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Changed	N/A
Sample Status	NORMAL	ATTENTION	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.6	44.3	42.8	43.0
Acid Number (AN)	mg KOH/g	0.46	0.45	0.44	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	▲ 0.230
Particles >4µm		13177	56102	61170	---
Particles >6µm		2992	3265	3604	---
Particles >14µm		314	126	115	---
ISO 4406:1999 (c)		21/19/15	23/19/14	23/19/14	---
Silicon	ppm	2	1	3	5
Sodium	ppm	<1	<1	0	0
Potassium	ppm	<1	0	2	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	4	<1	6	▲ 23
Copper	ppm	5	2	6	22
Lead	ppm	0	0	1	1
Tin	ppm	0	<1	1	1
Aluminum	ppm	0	0	2	3
Chromium	ppm	<1	<1	2	5
Molybdenum	ppm	0	0	2	3
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	2
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	60	78	103	70
Magnesium	ppm	<1	2	3	7
Zinc	ppm	431	446	444	392
Phosphorus	ppm	364	365	404	371
Barium	ppm	0	1	0	1
Boron	ppm	0	0	0	0

Depot: VOLV00129
Unique No: 11099338
Signed: Wes Davis
Report Date: 27 Jun 2024

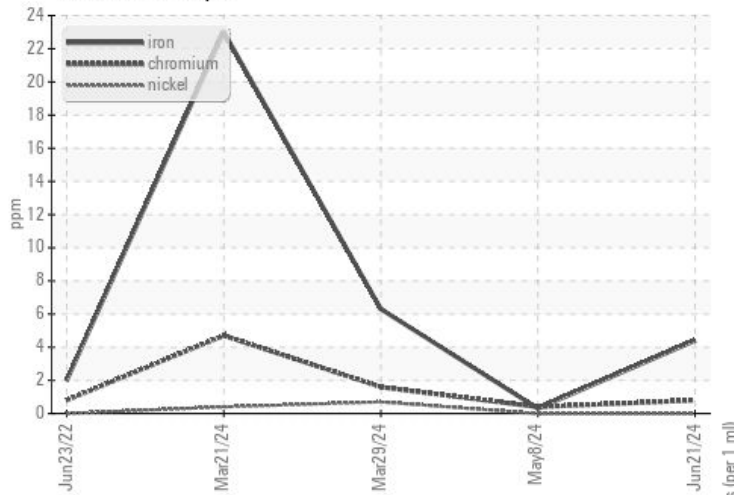


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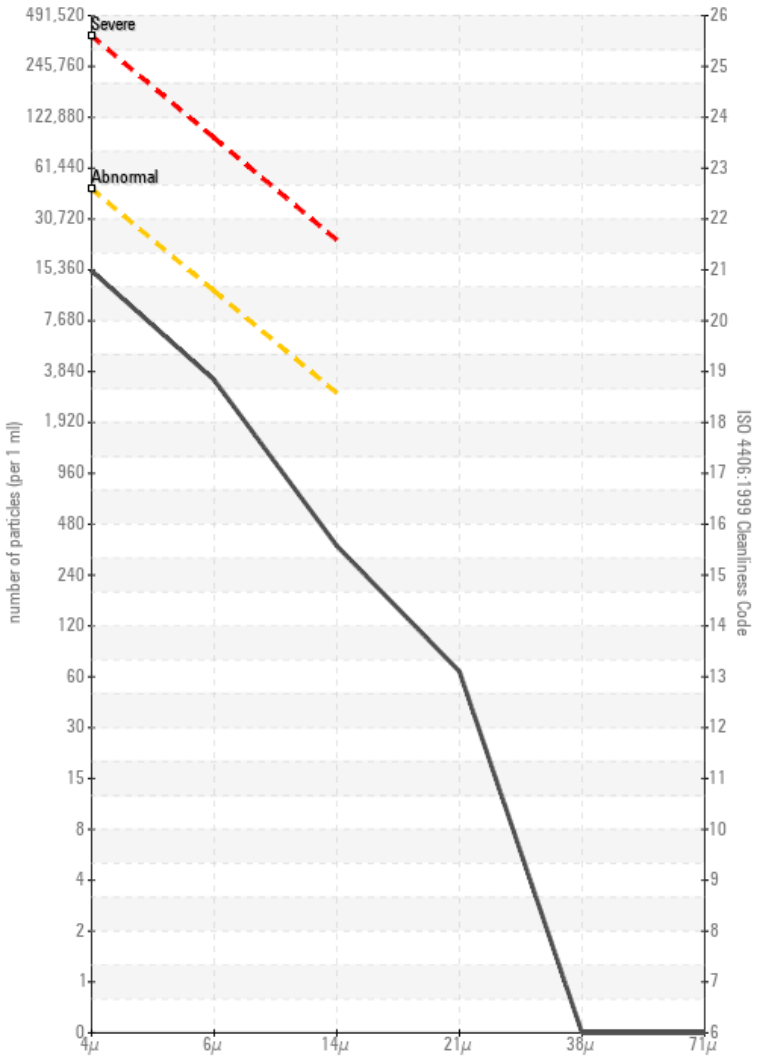


GRAPHS

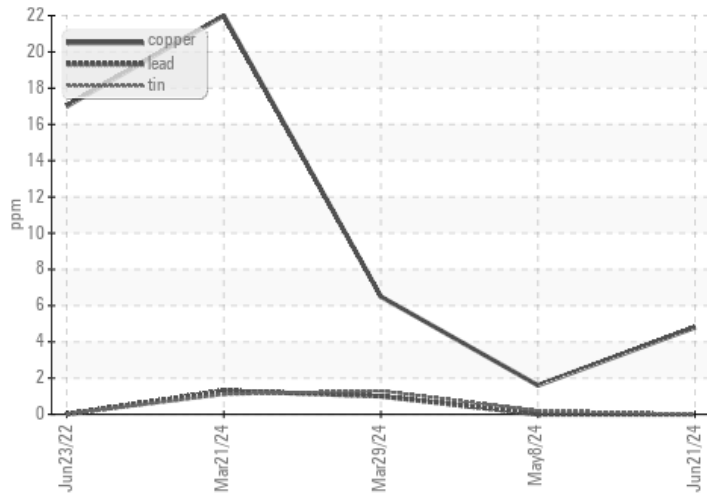
Ferrous Alloys



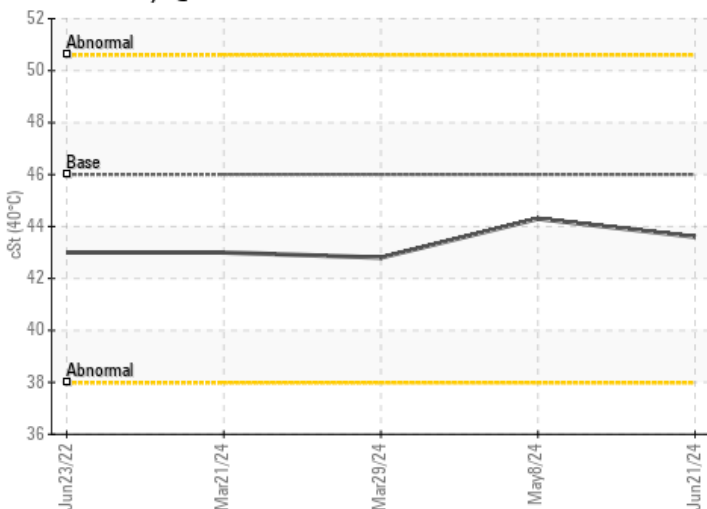
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

